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PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: G01-35 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: NA Analyzed: 09/10/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	2000
Bromomethane	ND	ug/L	2000
Vinyl chloride	ND	ug/L	2000
Chloroethane	ND	ug/L	2000
Methylene chloride	ND	ug/L	5000
1,1-Dichloroethene	ND	ug/L	1000
1,1-Dichloroethane	ND	ug/L	1000
trans-1,2-Dichloroethene	ND	ug/L	1000
Chloroform	ND	ug/L	1000
1,2-Dichloroethane	ND	ug/L	1000
1,1,1-Trichloroethane	ND	ug/L	1000
Carbon tetrachloride	ND	ug/L	1000
Bromodichloromethane	ND	ug/L	1000
1,2-Dichloropropane	ND	ug/L	1000
trans-1,3-Dichloropropene	ND	ug/L	1000
Trichloroethene	ND	ug/L	1000
Dibromochloromethane	ND	ug/L	1000
1,1,2-Trichloroethane	ND	ug/L	1000
Benzene	23000	ug/L	1000
cis-1,3-Dichloropropene	ND	ug/L	1000
2-Chloroethyl vinyl ether	ND	ug/L	2000
Bromoform	ND	ug/L	1000
1,1,2,2-Tetrachloroethane	ND	ug/L	1000
Tetrachloroethene	ND	ug/L	1000
Toluene	2800	ug/L	1000
Chlorobenzene	ND	ug/L	1000
Ethyl benzene	ND	ug/L	1000

ND = Not Detected
NA = Not Applicable

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ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-35	Well #54

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: G01-35 Enseco I.D.: NA

Matrix: Water Sampled: 09/08/87 Received: 09/09/87

Authorized: 09/09/87 Prepared: 09/10/87 Analyzed: 09/14/87

Parameter	Result	Units	Reporting Limit
Phenol	220,000	ug/L	8,000
bis(2-Chloroethyl)ether	ND	ug/L	8,000
2-Chlorophenol	ND	ug/L	8.000
1,3-Dichlorobenzene	ND	ug/L	8,000
1,4-Dichlorobenzene	ND	ug/L	8,000
1,2-Dichlorobenzene	ND	ug/L	8,000
bis(2-Chloroisopropyl)ether	ND	ug/L	8,000
N-Nitroso-dipropylamine	ND	ug/L	8,000
Hexachloroethane	ND	ug/L	8,000
Nitrobenzene	ND	ug/L	8,000
Isophorone	ND	ug/L	8,000
2-Nitrophenol	ND	ug/L	8,000
2,4-Dimethylphenol	11,000	ug/L	8,000
bis(2-Chloroethoxy)methane	ND	ug/L	8,000
2,4-Dichlorophenol	ND	ug/L	8,000
1,2,4-Trichlorobenzene	ND	ug/L	8,000
Naphthalene	ND	ug/L	8,000
Hexachlorobutadiene	ND	ug/L	8,000
4-Chloro-3-methylphenol	ND	ug/L	8,000
Hexachlorocyclopentadiene	ND	ug/L	8,000
2,4,6-Trichlorophenol	ND	ug/L	8,000
2-Chloronaphthalene	ND	ug/L	8,000
Dimethyl phthalate	ND	ug/L	8,000
Acenaphthylene	ND	ug/L	8,000
Acenaphthene	ND	ug/L	8,000
2,4-Dinitrophenol	ND	ug/L	40,000
4-Nitrophenol	ND	ug/L	40,000
2,4-Dinitrotoluene	ND	ug/L	8,000
2,6-Dinitrotoluene	ND	ug/L	8,000
Diethyl phthalate	ND	ug/L	8,000
4-Chlorophenyl phenyl ether	ND	ug/L	8,000
Fluorene	ND	ug/L	8,000
4,6-Dinitro-2-methylphenol	ND	ug/L	40,000
1,2-Diphenylhydrazine	ND	ug/L	8,000
N-Nitrosodiphenylamine	ND	ug/L	8,000
4-Bromophenyl phenyl ether	ND	ug/L	8,000

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: G01-35 Enseco I.D.: NA

Matrix: Water Sampled: 09/08/87 Received: 09/09/87

Authorized: 09/09/87 Prepared: 09/10/87 Analyzed: 09/14/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	8,000
Pentachlorophenol	ND	ug/L	40,000
Phenanthrene	ND	ug/L	8,000
Anthracene	ND	ug/L	8,000
Di-n-butyl phthalate	ND	ug/L	8,000
Fluoranthene	ND	ug/L	8,000
Pyrene	ND	ug/L	8,000
Butyl benzyl phthalate	ND	ug/L	8,000
3,3'-Dichlorobenzidine	ND	ug/L	16,000
Benzo(a)anthracene	ND	ug/L	8,000
bis(2-Ethylhexyl)phthalate	ND	ug/L	8,000
Chrysene	ND	ug/L	8,000
Di-n-octyl phthalate	ND	ug/L	8,000
Benzo(b)fluoranthene	ND	ug/L	8,000
Benzo(k)fluoranthene	ND	ug/L	8,000
Benzo(a)pyrene	ND	ug/L	8,000
Indeno(1,2,3-c,d)pyrene	ND	ug/L	8,000
Dibenzo(a,h)anthracene	ND	ug/L	8,000
Benzo(g,h,i)perylene	ND	ug/L	8,000

ND = Not Detected
NA = Not Applicable

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ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #54

Project: G01
CLE I.D.: G01-35
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
2-Methyl Phenol	425	A	45,000*
2-Methyl Phenol	446	A	190,000*
Unknown C_2Phenol	535	----	22,000

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

*Calculated against is own standard.

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PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: 64505-007 Enseco I.D.: G01-35

Matrix: Water Sampled: 09/08/87 Received: 09/09/87

Authorized: 09/09/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.1	200.7	09/25/87
Arsenic	0.21	mg/L	0.006	206.2	09/28/87
Beryllium	0.005	mg/L	0.002	200.7	09/25/87
Cadmium	ND	mg/L	0.01	200.7	09/25/87
Chromium	0.23	mg/L	0.02	200.7	09/25/87
Copper	0.17	mg/L	0.02	200.7	09/25/87
Lead	0.08	mg/L	0.01	239.2	09/28/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	0.20	mg/L	0.08	200.7	09/25/87
Selenium	0.11	mg/L	0.01	270.2	09/28/87
Silver	ND	mg/L	0.01	200.7	09/25/87
Thallium	ND	mg/L	0.2	279.2	09/28/87
Zinc	0.45	mg/L	0.02	200.7	09/25/87

ND = Not Detected

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PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: 64505-007 Enseco I.D.: G01-35

Matrix: Water Sampled: 09/08/87 Received: 09/09/87

Authorized: 09/09/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.1	200.7	09/23/87
Arsenic	0.08	mg/L	0.03	206.2	09/25/87
Beryllium	ND	mg/L	0.002	200.7	09/23/87
Cadmium	ND	mg/L	0.01	200.7	09/23/87
Chromium	0.04	mg/L	0.02	200.7	09/23/87
Copper	ND	mg/L	0.02	200.7	09/23/87
Lead	ND	mg/L	0.2	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.08	200.7	09/23/87
Selenium	0.02	mg/L	0.02	270.2	09/25/87
Silver	ND	mg/L	0.01	200.7	09/23/87
Thallium	ND	mg/L	0.08	279.2	09/25/87
Zinc	ND	mg/L	0.02	200.7	09/23/87

ND = Not Detected

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INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #54

Laboratory I.D.: 64505-007 Enseco I.D.: G01-35

Matrix: Water Sampled: 09/08/87 Received: 09/09/87

Authorized: 09/09/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	0.34	mg/L	0.01	335.3	09/16/87
Phenolics	960	mg/L	0.01	420.1	09/17/87

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PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: G01-29 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/09/87 Analyzed: 09/17/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.05
Beta-BHC	ND	ug/L	0.05
Delta-BHC	ND	ug/L	0.05
Gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1

ND = Not Detected
NA = Not Applicable

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PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: G01-29 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: NA Analyzed: 09/09/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	25
Bromomethane	ND	ug/L	25
Vinyl chloride	ND	ug/L	25
Chloroethane	ND	ug/L	25
Methylene chloride	ND	ug/L	60
1,1-Dichloroethene	ND	ug/L	10
1,1-Dichloroethane	ND	ug/L	10
trans-1,2-Dichloroethene	ND	ug/L	10
Chloroform	ND	ug/L	10
1,2-Dichloroethane	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	10
Carbon tetrachloride	ND	ug/L	10
Bromodichloromethane	ND	ug/L	10
1,2-Dichloropropane	ND	ug/L	10
trans-1,3-Dichloropropene	ND	ug/L	10
Trichloroethene	ND	ug/L	10
Dibromochloromethane	ND	ug/L	10
1,1,2-Trichloroethane	ND	ug/L	10
Benzene	380	ug/L	10
cis-1,3-Dichloropropene	ND	ug/L	10
2-Chloroethyl vinyl ether	ND	ug/L	25
Bromoform	ND	ug/L	10
1,1,2,2-Tetrachloroethane	ND	ug/L	10
Tetrachloroethene	ND	ug/L	10
Toluene	ND	ug/L	10
Chlorobenzene	ND	ug/L	10
Ethyl benzene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-29	Well #55

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: G01-29 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	10
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	50
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	10
1,2-Diphenylhydrazine	ND	ug/L	50
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: G01-29 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

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ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #55

Project: G01
CLE I.D.: G01-29
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Unknown	621	----	21
2-Methyl 1-(1,1 Dimethylethyl)-2-Methyl-1,3-Propane Propanoic Acid	900	B	15

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

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PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: 64505-003 Enseco I.D.: G01-29

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/25/87
Arsenic	0.012	mg/L	0.006	206.2	09/28/87
Beryllium	ND	mg/L	0.001	200.7	09/25/87
Cadmium	ND	mg/L	0.005	200.7	09/25/87
Chromium	0.01	mg/L	0.01	200.7	09/25/87
Copper	0.029	mg/L	0.006	200.7	09/25/87
Lead	0.056	mg/L	0.004	239.2	09/28/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/25/87
Selenium	ND	mg/L	0.008	270.2	09/28/87
Silver	ND	mg/L	0.005	200.7	09/25/87
Thallium	ND	mg/L	0.008	279.2	09/28/87
Zinc	0.07	mg/L	0.01	200.7	09/25/87

ND = Not Detected

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PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: 64505-003 Enseco I.D.: G01-29

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/23/87
Arsenic	0.006	mg/L	0.006	206.2	09/25/87
Beryllium	ND	mg/L	0.001	200.7	09/23/87
Cadmium	ND	mg/L	0.005	200.7	09/23/87
Chromium	ND	mg/L	0.01	200.7	09/23/87
Copper	ND	mg/L	0.006	200.7	09/23/87
Lead	ND	mg/L	0.004	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/23/87
Selenium	ND	mg/L	0.004	270.2	09/25/87
Silver	ND	mg/L	0.005	200.7	09/23/87
Thallium	ND	mg/L	0.02	279.2	09/25/87
Zinc	ND	mg/L	0.01	200.7	09/23/87

ND = Not Detected

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PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: G01-26 Enseco I.D.: NA

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87 Prepared: 09/01/87 Analyzed: 09/05/87

Parameter	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.1*
beta-BHC	ND	ug/L	0.1*
delta-BHC	ND	ug/L	0.1*
gamma-BHC (Lindane)	ND	ug/L	0.1*
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin ketone	ND	ug/L	0.5
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

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INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #55

Laboratory I.D.: 64505-003 Enseco I.D.: G01-29

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	0.33	mg/L	0.01	335.3	09/16/87
Phenolics	0.03	mg/L	0.01	420.1	09/17/87

ND = Not Detected

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PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: G01-26 Enseco I.D.: NA

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87 Prepared: NA Analyzed: 09/03/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	6	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	29	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-26	Well #70

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: G01-26 Enseco I.D.: NA

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87 Prepared: 09/03/87 Analyzed: 09/08/87

Parameter	Result	Units	Reporting Limit
Phenol	270	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	27	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: G01-26 Enseco I.D.: NA

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87 Prepared: 09/03/87 Analyzed: 09/08/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #70

Project: G01
CLE I.D.: G01-26
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
2-methyl phenol	442	A	43*
4-methyl phenol	444	A	160*
4-(1,1-Dimethylethyl)phenol	653	A	16
1H-Indole	656	A	39
2-methyl quinoline	673	A	11
2,3-Dihydro-3-methyl-1H-Inden-1-one	680	A	14
Bezene propanoic acid	693	A	13
2,6-bis(1,1-dimethylethyl)-4-methyl phenol	841	A	38
Unknown	876	-	21
6-Quinolinol	988	B	16
Unknown Carboxylic acid	1017	B	18
Unknown hydrocarbon	1104	A	15
Unknown Carboxylic acid	1147	B	17
Unknown	1255	-	31
Unknown	1277	-	78
4,4-Butylidene Bis[2-(1,1 Dimethylethyl)-5-methyl phenol	1559	B	30

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

*Quantitation based on authentic standard.

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PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: 64447-006 Enseco I.D.: G01-26

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/18/87
Arsenic	0.011	mg/L	0.003	206.2	09/08/87
Beryllium	ND	mg/L	0.001	200.7	09/18/87
Cadmium	ND	mg/L	0.005	200.7	09/18/87
Chromium	ND	mg/L	0.01	200.7	09/18/87
Copper	0.017	mg/L	0.006	200.7	09/18/87
Lead	0.010	mg/L	0.002	239.2	09/08/87
Mercury	ND	mg/L	0.0001	245.1	09/16/87
Nickel	ND	mg/L	0.04	200.7	09/18/87
Selenium	ND	mg/L	0.004	270.2	09/08/87
Silver	ND	mg/L	0.005	200.7	09/18/87
Thallium	ND	mg/L	0.004	279.2	09/08/87
Zinc	0.02	mg/L	0.01	200.7	09/18/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: 64447-006 Enseco I.D.: G01-26

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/17/87
Arsenic	0.020	mg/L	0.003	206.2	09/22/87
Beryllium	ND	mg/L	0.001	200.7	09/17/87
Cadmium	ND	mg/L	0.005	200.7	09/17/87
Chromium	ND	mg/L	0.01	200.7	09/17/87
Copper	ND	mg/L	0.006	200.7	09/17/87
Lead	ND	mg/L	0.004	239.2	09/22/87
Mercury	ND	mg/L	0.0001	245.1	09/14/87
Nickel	ND	mg/L	0.04	200.7	09/17/87
Selenium	ND	mg/L	0.004	270.2	09/22/87
Silver	ND	mg/L	0.005	200.7	09/17/87
Thallium	ND	mg/L	0.008	279.2	09/21/87
Zinc	ND	mg/L	0.01	200.7	09/17/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #70

Laboratory I.D.: 64447-006 Enseco I.D.: G01-26

Matrix: Water Sampled: 08/31/87 Received: 09/01/87

Authorized: 09/01/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/09/87
Phenolics	0.01	mg/L	0.01	420.1	09/14/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: G01-19 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 09/04/87

Parameter	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.05
beta-BHC	ND	ug/L	0.05
delta-BHC	ND	ug/L	0.05
gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin ketone	ND	ug/L	0.5
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: G01-19 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: NA Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	5
Bromoform	ND	ug/L	10
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-19	Well #72A

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: G01-19 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: G01-19 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: ABN

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard d_{10}-phenanthrene:

CLE I.D.	Client I.D.
G01-19	Well #72A

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: 64413-002 Enseco I.D.: G01-19

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.1	200.7	09/03/87
Arsenic	ND	mg/L	0.003	206.2	09/04/87
Beryllium	ND	mg/L	0.002	200.7	09/03/87
Cadmium	ND	mg/L	0.01	200.7	09/03/87
Chromium	ND	mg/L	0.02	200.7	09/03/87
Copper	ND	mg/L	0.02	200.7	09/03/87
Lead	ND	mg/L	0.002	239.2	09/03/87
Mercury	ND	mg/L	0.0001	245.1	09/04/87
Nickel	ND	mg/L	0.08	200.7	09/03/87
Selenium	ND	mg/L	0.004	270.2	09/03/87
Silver	ND	mg/L	0.01	200.7	09/03/87
Thallium	ND	mg/L	0.004	279.2	09/04/87
Zinc	0.08	mg/L	0.02	200.7	09/03/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: 64413-002 Enseco I.D.: G01-19

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/17/87
Arsenic	ND	mg/L	0.003	206.2	09/22/87
Beryllium	ND	mg/L	0.001	200.7	09/17/87
Cadmium	ND	mg/L	0.005	200.7	09/17/87
Chromium	ND	mg/L	0.01	200.7	09/17/87
Copper	ND	mg/L	0.006	200.7	09/17/87
Lead	ND	mg/L	0.004	239.2	09/22/87
Mercury	ND	mg/L	0.0001	245.1	09/04/87
Nickel	ND	mg/L	0.04	200.7	09/17/87
Selenium	ND	mg/L	0.002	270.2	09/22/87
Silver	ND	mg/L	0.005	200.7	09/17/87
Thallium	ND	mg/L	0.004	279.2	09/21/87
Zinc	0.07	mg/L	0.01	200.7	09/17/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #72A

Laboratory I.D.: 64413-002 Enseco I.D.: G01-19

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/02/87
Phenolics	ND	mg/L	0.01	420.1	09/14/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: G01-20 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 09/05/87

Parameter	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.05
beta-BHC	ND	ug/L	0.05
delta-BHC	ND	ug/L	0.05
gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin ketone	ND	ug/L	0.5
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: G01-20 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: NA Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: G01-20 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	20
bis(2-Chloroethyl)ether	ND	ug/L	20
2-Chlorophenol	ND	ug/L	20
1,3-Dichlorobenzene	ND	ug/L	20
1,4-Dichlorobenzene	ND	ug/L	20
1,2-Dichlorobenzene	ND	ug/L	20
bis(2-Chloroisopropyl)ether	ND	ug/L	20
N-Nitroso-dipropylamine	ND	ug/L	20
Hexachloroethane	ND	ug/L	20
Nitrobenzene	ND	ug/L	20
Isophorone	ND	ug/L	20
2-Nitrophenol	ND	ug/L	20
2,4-Dimethylphenol	ND	ug/L	20
bis(2-Chloroethoxy)methane	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	20
1,2,4-Trichlorobenzene	ND	ug/L	20
Naphthalene	ND	ug/L	20
Hexachlorobutadiene	ND	ug/L	20
4-Chloro-3-methylphenol	ND	ug/L	20
Hexachlorocyclopentadiene	ND	ug/L	20
2,4,6-Trichlorophenol	ND	ug/L	20
2-Chloronaphthalene	ND	ug/L	20
Dimethyl phthalate	ND	ug/L	20
Acenaphthylene	ND	ug/L	20
Acenaphthene	ND	ug/L	20
2,4-Dinitrophenol	ND	ug/L	100
4-Nitrophenol	ND	ug/L	100
2,4-Dinitrotoluene	ND	ug/L	20
2,6-Dinitrotoluene	ND	ug/L	20
Diethyl phthalate	ND	ug/L	20
4-Chlorophenyl phenyl ether	ND	ug/L	20
Fluorene	ND	ug/L	20
4,6-Dinitro-2-methylphenol	ND	ug/L	100
1,2-Diphenylhydrazine	ND	ug/L	20
N-Nitrosodiphenylamine	ND	ug/L	20
4-Bromophenyl phenyl ether	ND	ug/L	20

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: G01-20 Enseco I.D.: NA

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87 Prepared: 08/28/87 Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	20
Pentachlorophenol	ND	ug/L	100
Phenanthrene	ND	ug/L	20
Anthracene	ND	ug/L	20
Di-n-butyl phthalate	ND	ug/L	20
Fluoranthene	ND	ug/L	20
Pyrene	ND	ug/L	20
Butyl benzyl phthalate	ND	ug/L	20
3,3'-Dichlorobenzidine	ND	ug/L	40
Benzo(a)anthracene	ND	ug/L	20
bis(2-Ethylhexyl)phthalate	ND	ug/L	20
Chrysene	ND	ug/L	20
Di-n-octyl phthalate	ND	ug/L	20
Benzo(b)fluoranthene	ND	ug/L	20
Benzo(k)fluoranthene	ND	ug/L	20
Benzo(a)pyrene	ND	ug/L	20
Indeno(1,2,3-c,d)pyrene	ND	ug/L	20
Dibenzo(a,h)anthracene	ND	ug/L	20
Benzo(g,h,i)perylene	ND	ug/L	20

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #80

Project: G01
CLE I.D.: G01-20
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
Unknown Hydrocarbon	899	A	290
Unknown	1236	-	17

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: 64413-003 Enseco I.D.: G01-20

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.1	200.7	09/03/87
Arsenic	ND	mg/L	0.006	206.2	09/04/87
Beryllium	ND	mg/L	0.002	200.7	09/03/87
Cadmium	ND	mg/L	0.01	200.7	09/03/87
Chromium	ND	mg/L	0.02	200.7	09/03/87
Copper	ND	mg/L	0.02	200.7	09/03/87
Lead	0.008	mg/L	0.004	239.2	09/03/87
Mercury	ND	mg/L	0.0001	245.1	09/04/87
Nickel	ND	mg/L	0.08	200.7	09/03/87
Selenium	ND	mg/L	0.008	270.2	09/03/87
Silver	ND	mg/L	0.01	200.7	09/03/87
Thallium	ND	mg/L	0.008	279.2	09/04/87
Zinc	0.04	mg/L	0.02	200.7	09/03/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: 64413-003 Enseco I.D.: G01-20

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/17/87
Arsenic	ND	mg/L	0.003	206.2	09/22/87
Beryllium	ND	mg/L	0.001	200.7	09/17/87
Cadmium	ND	mg/L	0.005	200.7	09/17/87
Chromium	ND	mg/L	0.01	200.7	09/17/87
Copper	ND	mg/L	0.006	200.7	09/17/87
Lead	ND	mg/L	0.002	239.2	09/22/87
Mercury	ND	mg/L	0.0001	245.1	09/04/87
Nickel	ND	mg/L	0.04	200.7	09/17/87
Selenium	ND	mg/L	0.002	270.2	09/22/87
Silver	ND	mg/L	0.005	200.7	09/17/87
Thallium	ND	mg/L	0.004	279.2	09/21/87
Zinc	0.04	mg/L	0.01	200.7	09/17/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #80

Laboratory I.D.: 64413-003 Enseco I.D.: G01-20

Matrix: Water Sampled: 08/26/87 Received: 08/27/87

Authorized: 08/27/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/09/87
Phenolics	ND	mg/L	0.01	420.1	09/14/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: G01-27 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/09/87 Analyzed: 09/17/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.05
Beta-BHC	ND	ug/L	0.05
Delta-BHC	ND	ug/L	0.05
Gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-27	Well #83

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: G01-27 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: G01-27 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #83

Project: G01
CLE I.D.: G01-27
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Unknown	293	----	14
Unknown	353	----	19
Unknown	504	----	9
2-Methyl 1-(1,1 Dimethylethyl) 2-Methyl-1,3-Propane Propanoic Acid	899	B	8

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: 64505-001 Enseco I.D.: G01-27

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.3	200.7	09/25/87
Arsenic	0.064	mg/L	0.006	206.2	09/28/87
Beryllium	0.051	mg/L	0.005	200.7	09/25/87
Cadmium	ND	mg/L	0.03	200.7	09/25/87
Chromium	1.1	mg/L	0.05	200.7	09/25/87
Copper	1.0	mg/L	0.03	200.7	09/25/87
Lead	0.25	mg/L	0.004	239.2	09/28/87
Mercury	0.0064	mg/L	0.0001	245.1	09/29/87
Nickel	1.0	mg/L	0.2	200.7	09/25/87
Selenium	ND	mg/L	0.04	270.2	09/28/87
Silver	ND	mg/L	0.03	200.7	09/25/87
Thallium	ND	mg/L	0.008	279.2	09/28/87
Zinc	5.2	mg/L	0.05	200.7	09/25/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: 64505-001 Enseco I.D.: G01-27

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/23/87
Arsenic	ND	mg/L	0.006	206.2	09/24/87
Beryllium	ND	mg/L	0.001	200.7	09/23/87
Cadmium	ND	mg/L	0.005	200.7	09/23/87
Chromium	ND	mg/L	0.01	200.7	09/23/87
Copper	ND	mg/L	0.006	200.7	09/23/87
Lead	ND	mg/L	0.004	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/23/87
Selenium	ND	mg/L	0.008	270.2	09/25/87
Silver	ND	mg/L	0.005	200.7	09/23/87
Thallium	ND	mg/L	0.008	279.2	09/25/87
Zinc	0.02	mg/L	0.01	200.7	09/23/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #83

Laboratory I.D.: 64505-001 Enseco I.D.: G01-27

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/16/87
Phenolics	ND	mg/L	0.01	420.1	09/17/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: G01-30 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/09/87 Analyzed: 09/17/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.05
Beta-BHC	ND	ug/L	0.05
Delta-BHC	ND	ug/L	0.05
Gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: G01-30 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: NA Analyzed: 09/09/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-30	Well #84

Ens

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: G01-30 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: G01-30 Enseco I.D.: NA

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87 Prepared: 09/10/87 Analyzed: 09/11/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #84

Project: G01
CLE I.D.: G01-30
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Unknown	291	----	11

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: 64505-004 Enseco I.D.: G01-30

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/25/87
Arsenic	0.032	mg/L	0.006	206.2	09/28/87
Beryllium	0.005	mg/L	0.001	200.7	09/25/87
Cadmium	ND	mg/L	0.005	200.7	09/25/87
Chromium	0.09	mg/L	0.01	200.7	09/25/87
Copper	0.087	mg/L	0.006	200.7	09/25/87
Lead	0.060	mg/L	0.004	239.2	09/28/87
Mercury	0.0015	mg/L	0.0001	245.1	09/17/87
Nickel	0.07	mg/L	0.04	200.7	09/25/87
Selenium	ND	mg/L	0.004	270.2	09/28/87
Silver	ND	mg/L	0.005	200.7	09/25/87
Thallium	ND	mg/L	0.008	279.2	09/28/87
Zinc	0.48	mg/L	0.01	200.7	09/25/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: 64505-004 Enseco I.D.: G01-30

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/23/87
Arsenic	ND	mg/L	0.006	206.2	09/25/87
Beryllium	ND	mg/L	0.001	200.7	09/23/87
Cadmium	ND	mg/L	0.005	200.7	09/23/87
Chromium	ND	mg/L	0.01	200.7	09/23/87
Copper	ND	mg/L	0.006	200.7	09/23/87
Lead	ND	mg/L	0.008	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/23/87
Selenium	ND	mg/L	0.008	270.2	09/25/87
Silver	ND	mg/L	0.005	200.7	09/23/87
Thallium	ND	mg/L	0.008	279.2	09/25/87
Zinc	ND	mg/L	0.01	200.7	09/23/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #84

Laboratory I.D.: 64505-004 Enseco I.D.: G01-30

Matrix: Water Sampled: 09/04/87 Received: 09/05/87

Authorized: 09/05/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/16/87
Phenolics	ND	mg/L	0.01	420.1	09/17/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/25/87 Analyzed: 09/27/87

Parameter	Result	Units	Reporting Limit*
Alpha-BHC	ND	ug/L	0.1
Beta-BHC	ND	ug/L	0.1
Delta-BHC	ND	ug/L	0.1
Gamma-BHC (Lindane)	ND	ug/L	0.1
Heptachlor	ND	ug/L	0.1
Aldrin	ND	ug/L	0.1
Heptachlor Epoxide	ND	ug/L	0.1
Endosulfan I	ND	ug/L	0.1
Dieldrin	ND	ug/L	0.2
4,4'-DDE	ND	ug/L	0.2
Endrin	ND	ug/L	0.2
Endosulfan II	ND	ug/L	0.2
4,4'-DDD	ND	ug/L	0.2
Endosulfan Sulfate	ND	ug/L	0.2
4,4'-DDT	ND	ug/L	0.2
Endrin Ketone	ND	ug/L	0.2
Methoxychlor	ND	ug/L	1
Chlordane	ND	ug/L	1
Toxaphene	ND	ug/L	2
Aroclor-1016	ND	ug/L	2
Aroclor-1221	ND	ug/L	2
Aroclor-1232	ND	ug/L	2
Aroclor-1242	ND	ug/L	2
Aroclor-1248	ND	ug/L	2
Aroclor-1254	ND	ug/L	2
Aroclor-1260	ND	ug/L	2

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

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PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: NA Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl Chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene Chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon Tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected

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ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #86

Project: G01
CLE I.D.: G01-59
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
3-Ethoxy-3-methyl-1-Butyne	384	B	40
Unknown Hydrocarbon	894	A	12
Unknown	1144	-	12
2,5,8,11,14-Pentaoxci-pentadecane	1586	B	25
Unknown	1658	-	10

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

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PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	10/01/87
Arsenic	0.0080	mg/L	0.003	206.2	10/01/87
Beryllium	0.001	mg/L	0.001	200.7	10/01/87
Cadmium	ND	mg/L	0.005	200.7	10/01/87
Chromium	0.022	mg/L	0.01	200.7	10/01/87
Copper	0.026	mg/L	0.006	200.7	10/01/87
Lead	0.010	mg/L	0.002	239.2	10/01/87
Mercury	ND	mg/L	0.0002	245.1	10/01/87
Nickel	ND	mg/L	0.04	200.7	10/01/87
Selenium	ND	mg/L	0.002	270.2	10/01/87
Silver	0.0074	mg/L	0.005	200.7	10/01/87
Thallium	ND	mg/L	0.004	279.2	10/01/87
Zinc	0.078	mg/L	0.01	200.7	10/01/87

ND = Not Detected

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PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/29/87
Arsenic	ND	mg/L	0.003	206.2	09/29/87
Beryllium	ND	mg/L	0.001	200.7	09/29/87
Cadmium	ND	mg/L	0.005	200.7	09/29/87
Chromium	ND	mg/L	0.01	200.7	09/29/87
Copper	ND	mg/L	0.006	200.7	09/29/87
Lead	ND	mg/L	0.002	239.2	09/29/87
Mercury	ND	mg/L	0.0002	245.1	09/29/87
Nickel	ND	mg/L	0.04	200.7	09/29/87
Selenium	ND	mg/L	0.002	270.2	09/29/87
Silver	0.01	mg/L	0.005	200.7	09/29/87
Thallium	ND	mg/L	0.004	279.2	09/29/87
Zinc	0.042	mg/L	0.01	200.7	09/29/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/29/87
Phenolics	0.35	mg/L	0.01	420.1	09/29/87

ND = Not Detected

Enseco

APPENDIX IX

ORGANOCHLORINE PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit*
Alpha-BHC	ND	ug/L	0.1
Beta-BHC	ND	ug/L	0.1
Delta-BHC	ND	ug/L	0.1
Gamma-BHC (Lindane)	ND	ug/L	0.1
Heptachlor	ND	ug/L	0.1
Aldrin	ND	ug/L	0.1
Heptachlor Epoxide	ND	ug/L	0.1
Endosulfan I	ND	ug/L	0.1
Dieldrin	ND	ug/L	0.2
4,4'-DDE	ND	ug/L	0.2
Endrin	ND	ug/L	0.2
Endosulfan II	ND	ug/L	0.2
4,4'-DDD	ND	ug/L	0.2
Endosulfan Sulfate	ND	ug/L	0.2
4,4'-DDT	ND	ug/L	0.2
Endrin Ketone	ND	ug/L	0.2
Methoxychlor	ND	ug/L	1
Chlordane	ND	ug/L	1
Toxaphene	ND	ug/L	2
Aroclor-1016	ND	ug/L	1
Aroclor-1221	ND	ug/L	1
Aroclor-1232	ND	ug/L	1
Aroclor-1242	ND	ug/L	1
Aroclor-1248	ND	ug/L	1
Aroclor-1254	ND	ug/L	2
Aroclor-1260	ND	ug/L	2
Isodrin	ND	ug/L	0.1
Chlorobenzilate	ND	ug/L	2
Kepone	ND	ug/L	1

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

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APPENDIX IX

PHENOXY HERBICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
2,4-D	ND	ug/L	0.4
2,4,5-TP	ND	ug/L	0.2*
2,4,5-T	ND	ug/L	0.1

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

Enseco

APPENDIX IX

ORGANOPHOSPHOROUS PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
Thionazin	ND	ug/L	0.5
Sulfotepp	ND	ug/L	0.5
Disulfoton	ND	ug/L	0.5
Methyl Parathion	ND	ug/L	0.5
Parathion	ND	ug/L	0.5
Famphur	ND	ug/L	2.0
Dimethoate	ND	ug/L	0.5
Phorate	ND	ug/L	0.5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

VOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: NA Analyzed: 09/22/87

Parameter	Result	Units	Reporting Limit
Acetone	ND	ug/L	25
Acetonitrile	ND	ug/L	50
Acrolein	ND	ug/L	50
Acrylonitrile	ND	ug/L	50
Allyl chloride	ND	ug/L	50
Benzene	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
Bromoform	ND	ug/L	5
Bromomethane	ND	ug/L	10
Carbon disulfide	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
2-Chloro-1,3-butadiene	ND	ug/L	10
Chloroethane	ND	ug/L	10
Chloroform	ND	ug/L	5
Chloromethane	ND	ug/L	10
Dibromochloromethane	ND	ug/L	5
1,2-Dibromo-3-chloropropane	ND	ug/L	5
1,2-Dibromoethane	ND	ug/L	5
trans-1,4-Dichloro-2-butene	ND	ug/L	10
Dichlorodifluoromethane	ND	ug/L	50
1,1-Dichloroethane	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
1,1-Dichloroethene	ND	ug/L	5
Dichloromethane	ND	ug/L	25
1,2-Dichloropropane	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
1,4-Dioxane	ND	ug/L	400
Ethyl benzene	ND	ug/L	5
Ethyl cyanide	ND	ug/L	200
2-Hexanone	ND	ug/L	10
Iodomethane	ND	ug/L	10
Isobutyl alcohol	ND	ug/L	400
Methacrylonitrile	ND	ug/L	20

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APPENDIX IX

VOLATILE ORGANICS Cont.

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: NA Analyzed: 09/12/87

Parameter	Result	Units	Reporting Limit
Methyl ethyl ketone	ND	ug/L	20
4-Methyl-2-pentanone	ND	ug/L	10
Styrene	ND	ug/L	5
1,1,1,2-Tetrachloroethane	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Trichlorofluoromethane	ND	ug/L	50
1,2,3-Trichloropropane	ND	ug/L	5
Vinyl acetate	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Xylene (total)	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	10
Acenaphthalene	ND	ug/L	10
Acetophenone	ND	ug/L	10
2-Acetylaminofluorene	ND	ug/L	20
4-Aminobiphenyl	ND	ug/L	10
Aniline	ND	ug/L	10
Anthracene	ND	ug/L	10
Aramite	ND	ug/L	100
Benz(a)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Benzyl alcohol	ND	ug/L	10
Bis(2-chloroethoxy)methane	ND	ug/L	10
Bis(2-Chloroethyl)ether	ND	ug/L	10
Bis(2-chloroisopropyl)ether	ND	ug/L	10
Bis(2-ethylhexyl)phthalate	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10
Butylbenzyl phthalate	ND	ug/L	10
2-sec-Butyl-4,6-dinitrophenol	ND	ug/L	50
p-Chloroaniline	ND	ug/L	20
p-Chloro-m-cresol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Chrysene	ND	ug/L	10
o-Cresol	ND	ug/L	10
m/p-Cresol	ND	ug/L	10
Dibenz(a,h)anthracene	ND	ug/L	10
Dibenzofuran	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
o-Dichlorobenzene	ND	ug/L	10
m-Dichlorobenzene	ND	ug/L	10
p-Dichlorobenzene	ND	ug/L	10

Enseco

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
3,3'-Dichlorobenzidine	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	10
2,6-Dichlorophenol	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
p-Dimethylaminoazobenzene	ND	ug/L	20
3,3'-Dimethylbenzidine	ND	ug/L	100
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10
alpha,alpha-Dimethylphenethylamine	ND	ug/L	50
2,4-Dimethylphenol	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
m-Dinitrobenzene	ND	ug/L	20
4,6-Dinitro-o-cresol	ND	ug/L	50
2,4-Dinitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Diphenylamine	ND	ug/L	10
Ethyl methacrylate	ND	ug/L	NR
Fluoranthene	ND	ug/L	10
Fluorene	ND	ug/L	10
Hexachlorobenzene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Hexachlorophene	ND	ug/L	NR
Hexachloropropene	ND	ug/L	50
Indeno(1,2,3-cd)pyrene	ND	ug/L	10
Isosafrole	ND	ug/L	20
Isophorone	ND	ug/L	10
Methapyrilene	ND	ug/L	10
3-Methylcholanthrene	ND	ug/L	50
Methyl methacrylate	ND	ug/L	NR
Methyl methanesulfonate	ND	ug/L	50
2-Methylnaphthalene	ND	ug/L	10
Naphthalene	ND	ug/L	10

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APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
1,4-Naphthoquinone	ND	ug/L	20
1,4-Naphthylamine	ND	ug/L	50
1-Naphthylamine	ND	ug/L	100
2-Naphthylamine	ND	ug/L	50
2-Nitroaniline	ND	ug/L	50
3-Nitroaniline	ND	ug/L	50
4-Nitroaniline	ND	ug/L	50
Nitrobenzene	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
4-Nitrophenol	ND	ug/L	50
4-Nitroquinoline-1-oxide	ND	ug/L	NR
N-Nitrosodiphenylamine (1)	ND	ug/L	10
N-Nitrosodi-n-butylamine	ND	ug/L	10
N-Nitrosodiethylamine	ND	ug/L	20
N-Nitrosodimethylamine	ND	ug/L	10
N-Nitrosodipropylamine	ND	ug/L	10
N-Nitrosomethylethylamine	ND	ug/L	10
N-Nitrosomorpholine	ND	ug/L	20
N-Nitrosopiperidine	ND	ug/L	10
N-Nitrosopyrrolidine	ND	ug/L	10
5-Nitro-o-toluidine	ND	ug/L	10
Pentachlorobenzene	ND	ug/L	10
Pentachloroethane	ND	ug/L	10
Pentachloronitrobenzene	ND	ug/L	50
Pentachlorophenol	ND	ug/L	50
Phenacetin	ND	ug/L	10
Phenanthrene	ND	ug/L	10
Phenol	ND	ug/L	10
p-Phenylenediamine	ND	ug/L	NR
2-Picoline	ND	ug/L	50
Pronamide	ND	ug/L	20
Pyrene	ND	ug/L	10
Pyridine	ND	ug/L	NR
Safrole	ND	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10
2,3,4,6-Tetrachlorophenol	ND	ug/L	20

Enseco

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
o-Toluidine	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
2,4,5-Trichlorophenol	ND	ug/L	50
2,4,6-trichlorophenol	ND	ug/L	10
Sym-Trinitrobenzene	ND	ug/L	50

ND = Not Detected
NR = Not Recovered

Enseco

APPENDIX IX

POLYCHLORINATED DIOXINS AND FURANS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31479-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: _____ Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
Tetrachlorodibenzofurans	ND	ng/L	0.085
Pentachlorodibenzofurans	ND	ng/L	0.32
Hexachlorodibenzofurans	ND	ng/L	0.076
Tetrachlorodibenzodioxins	ND	ng/L	0.12
Pentachlorodibenzodioxins	ND	ng/L	0.25
Hexachlorodibenzodioxins	ND	ng/L	0.34

ND = Not Detected

Enseco

APPENDIX IX

METALS (TOTAL)

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/23/87

Parameter	Result	Units	Reporting Limit	Date Analyzed
Antimony	ND	mg/L	0.05	09/23/87
Arsenic	0.0068	mg/L	0.003	09/23/87
Barium	0.037	mg/L	0.01	09/23/87
Beryllium	ND	mg/L	0.001	09/23/87
Cadmium	ND	mg/L	0.005	09/23/87
Chromium	ND	mg/L	0.01	09/23/87
Cobalt	ND	mg/L	0.01	09/23/87
Copper	ND	mg/L	0.006	09/23/87
Lead	0.0042	mg/L	0.002	09/24/87
Mercury	ND	mg/L	0.0002	09/23/87
Nickel	ND	mg/L	0.04	09/23/87
Selenium	ND	mg/L	0.002	09/24/87
Silver	ND	mg/L	0.005	09/23/87
Thallium	ND	mg/L	0.004	09/24/87
Tin	ND	mg/L	0.03	09/23/87
Vanadium	ND	mg/L	0.01	09/23/87
Zinc	0.033	mg/L	0.01	09/23/87

ND = Not Detected

Enseco

APPENDIX IX

METALS (DISSOLVED)

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/23/87

Parameter	Result	Units	Reporting Limit	Date Analyzed
Antimony	ND	mg/L	0.05	09/23/87
Arsenic	0.0051	mg/L	0.003	09/25/87
Barium	0.035	mg/L	0.01	09/23/87
Beryllium	ND	mg/L	0.001	09/23/87
Cadmium	ND	mg/L	0.005	09/23/87
Chromium	ND	mg/L	0.01	09/23/87
Cobalt	ND	mg/L	0.01	09/23/87
Copper	ND	mg/L	0.006	09/23/87
Lead	0.0035	mg/L	0.002	09/23/87
Mercury	ND	mg/L	0.0002	09/23/87
Nickel	ND	mg/L	0.04	09/23/87
Selenium	ND	mg/L	0.002	09/23/87
Silver	ND	mg/L	0.005	09/23/87
Thallium	ND	mg/L	0.004	09/23/87
Tin	ND	mg/L	0.03	09/23/87
Vanadium	ND	mg/L	0.01	09/23/87
Zinc	0.030	mg/L	0.01	09/23/87

ND = Not Detected

Enseco

APPENDIX IX

MISCELLANEOUS PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/29/87
Total Sulfide	0.13	mg/L	0.05	376.2	09/29/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/04/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.5*
Beta-BHC	ND	ug/L	0.5*
Delta-BHC	ND	ug/L	0.5*
Gamma-BHC (Lindane)	ND	ug/L	0.5*
Heptachlor	ND	ug/L	0.5*
Aldrin	ND	ug/L	0.5*
Heptachlor Epoxide	ND	ug/L	0.5*
Endosulfan I	ND	ug/L	0.5*
Dieldrin	ND	ug/L	0.10
4,4'-DDE	ND	ug/L	0.10
Endrin	ND	ug/L	0.10
Endosulfan II	ND	ug/L	0.10
4,4'-DDD	ND	ug/L	0.10
Endosulfan Sulfate	ND	ug/L	0.10
4,4'-DDT	ND	ug/L	0.10
Endrin Ketone	ND	ug/L	0.10
Methoxychlor	ND	ug/L	0.50
Chlordane	ND	ug/L	0.50
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	5.0*
Aroclor-1221	ND	ug/L	5.0*
Aroclor-1232	ND	ug/L	5.0*
Aroclor-1242	ND	ug/L	5.0*
Aroclor-1248	ND	ug/L	5.0
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable
*Reporting limits raised due to interference.

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 11/04/87 Analyzed: 11/04/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	5
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

LAB I.D.	Client I.D.
32074-001	Well #88 USX

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/03/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	20
bis(2-Chloroethyl)ether	ND	ug/L	20
2-Chlorophenol	ND	ug/L	20
1,3-Dichlorobenzene	ND	ug/L	20
1,4-Dichlorobenzene	ND	ug/L	20
1,2-Dichlorobenzene	ND	ug/L	20
bis(2-Chloroisopropyl)ether	ND	ug/L	20
N-Nitroso-dipropylamine	ND	ug/L	20
Hexachloroethane	ND	ug/L	20
Nitrobenzene	ND	ug/L	20
Isophorone	ND	ug/L	20
2-Nitrophenol	ND	ug/L	20
2,4-Dimethylphenol	ND	ug/L	20
bis(2-Chloroethoxy)methane	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	20
1,2,4-Trichlorobenzene	ND	ug/L	20
Naphthalene	ND	ug/L	20
Hexachlorobutadiene	ND	ug/L	20
4-Chloro-3-methylphenol	ND	ug/L	20
Hexachlorocyclopentadiene	ND	ug/L	20
2,4,6-Trichlorophenol	ND	ug/L	20
2-Chloronaphthalene	ND	ug/L	20
Dimethyl phthalate	ND	ug/L	20
Acenaphthylene	ND	ug/L	20
Acenaphthene	ND	ug/L	20
2,4-Dinitrophenol	ND	ug/L	100
4-Nitrophenol	ND	ug/L	100
2,4-Dinitrotoluene	ND	ug/L	20
2,6-Dinitrotoluene	ND	ug/L	20
Diethyl phthalate	ND	ug/L	20
4-Chlorophenyl phenyl ether	ND	ug/L	20
Fluorene	ND	ug/L	20
4,6-Dinitro-2-methylphenol	ND	ug/L	100
1,2-Diphenylhydrazine	ND	ug/L	20
N-Nitrosodiphenylamine	ND	ug/L	20
4-Bromophenyl phenyl ether	ND	ug/L	20

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/03/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	20
Pentachlorophenol	ND	ug/L	100
Phenanthrene	ND	ug/L	20
Anthracene	ND	ug/L	20
Di-n-butyl phthalate	ND	ug/L	20
Fluoranthene	ND	ug/L	20
Pyrene	ND	ug/L	20
Butyl benzyl phthalate	ND	ug/L	20
3,3'-Dichlorobenzidine	ND	ug/L	40
Benzo(a)anthracene	ND	ug/L	20
bis(2-Ethylhexyl)phthalate	44	ug/L	20
Chrysene	ND	ug/L	20
Di-n-octyl phthalate	ND	ug/L	20
Benzo(b)fluoranthene	ND	ug/L	20
Benzo(k)fluoranthene	ND	ug/L	20
Benzo(a)pyrene	ND	ug/L	20
Indeno(1,2,3-c,d)pyrene	ND	ug/L	20
Dibenzo(a,h)anthracene	ND	ug/L	20
Benzo(g,h,i)perylene	ND	ug/L	20

ND = Not Detected
NA = Not Applicable

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #88 USX

Project: G01
LAB I.D.: 32074-001
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Hexadecanoic acid	1312	B	6
Mono-(2-ethyl) hexanedioic acid	1561	B	9

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Antimony	ND	mg/L	0.05	200.7
Arsenic	0.015 S	mg/L	0.003	206.2
Beryllium	0.032	mg/L	0.001	200.7
Cadmium	ND	mg/L	0.005	200.7
Chromium	1.9	mg/L	0.01	200.7
Copper	0.52	mg/L	0.006	200.7
Lead	0.094	mg/L	0.002	239.2
Mercury	ND	mg/L	0.0002	245.1
Nickel	1.1	mg/L	0.04	200.7
Selenium	ND	mg/L	0.002	270.2
Silver	ND	mg/L	0.005	200.7
Thallium	ND	mg/L	0.004	279.2
Zinc	0.82	mg/L	0.01	200.7

ND = Not Detected
S = Indicates value determined by method of standard addition.

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Antimony	ND	mg/L	0.05	200.7
Arsenic	ND	mg/L	0.003	206.2
Beryllium	ND	mg/L	0.001	200.7
Cadmium	ND	mg/L	0.005	200.7
Chromium	ND	mg/L	0.01	200.7
Copper	0.16	mg/L	0.006	200.7
Lead	0.025	mg/L	0.002	239.2
Mercury	ND	mg/L	0.0002	245.1
Nickel	ND	mg/L	0.04	200.7
Selenium	ND	mg/L	0.002	270.2
Silver	ND	mg/L	0.005	200.7
Thallium	ND	mg/L	0.004	279.2
Zinc	0.41	mg/L	0.01	200.7

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Total Cyanide	ND	mg/L	0.01	335.3
Phenolics	0.049	mg/L	0.01	420.1

ND = Not Detected

Enseco

QUALITY CONTROL DATA

Enseco Method 608/PP List

SURROGATE SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Sample I.D. (Q.C. Limits)	Dibutyl Chlorendate (24-154)
32074-001	64
32074MB	73

Surrogate Spike Level: 1 ug/L

ND = Not Detected

Enseco

QUALITY CONTROL DATA

Enseco Method 624/PP List

SURROGATE SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Sample I.D. (Q.C. Limits)	Toluene-d_8 (88-110)	BFB (86-120)	1,2-Dichloroethane-d_4 (76-110)
32074-001	104	104	103
VBLK871104	98	100	98

Surrogate Spike Level: 50 ug/L

QUALITY CONTROL DATA

Enseco Method 625/PP List

SURROGATE SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Sample I.D. (Q.C. Limits)	Nitrobenzene-d_5 [1] (35-114)	2-Fluorobiphenyl [1] (43-116)	Terphenyl-d_{14} [1] (33-141)	Phenol-d_5 [2] (10-94)	2-Fluorophenol [2] (21-100)	2,4,6-Tribromophenol [2] (10-123)
32074-001	93	69	79	33	55	69
32074MB	94	71	98	48	75	90

[1]Base/Neutral Surrogate Spike Level: 100 ug/L

[2]Acid Surrogate Spike Level: 200 ug/L

Enseco

QUALITY CONTROL DATA

Enseco Method 608/PP List

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Compound	Spike Level (ug/L)	RS608H281087A/B	RSD608H281087A/B	RPD
Lindane	0.2	70	80	13
Heptachlor	0.2	65	75	15
Aldrin	0.2	65	65	0
Dieldrin	0.5	88	94	7
Endrin	0.5	82	86	5
DDT	0.5	82	90	9

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

QUALITY CONTROL DATA

Enseco Method 624/PP List

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Compound	RS624M131087C&D	RSD624M131087C&D	RPD
1,1-Dichloroethene	103	116	12
Trichloroethene	81	85	5.4
Chlorobenzene	90	95	5.2
Toluene	87	93	6.6
Benzene	94	98	4.6

Reagent Spike Level: 50 ug/L

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

QUALITY CONTROL DATA

Enseco Method 625/PP List

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Golder Associates, Inc.

Project: G01
Matrix: Water

Compound	Spike Level (ug/L)	RS625H201087A/B	RSD625H201087A/B	RPD
Phenol	200	80	75	6.5
2-Chlorophenol	200	105	100	4.9
4-Chloro-3-methylphenol	200	90	85	5.7
4-Nitrophenol	200	57	46	21
Pentachlorophenol	200	90	85	5.6
1,4-Dichlorobenzene	100	95	97	2.1
N-Nitroso-di-n-propyl amine	100	82	87	5.9
1,2,4-Trichlorobenzene	100	92	88	4.4
Acenaphthene	100	100	99	1.0
2,4-Dinitrotoluene	100	85	82	3.6
Pyrene	100	94	99	5.2

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

Enseco

QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE

Golder Associates, Inc.

Project: G01
Matrix: Water

Compound	Spike Level (mg/L)	RS1187
Antimony	10	95
Arsenic	0.03	86
Beryllium	0.2	101
Cadmium	1	95
Chromium	1	95
Copper	1	103
Lead	0.02	101
Mercury	0.00104	103
Nickel	1	92
Selenium	0.02	97
Silver	0.1	90
Thallium	0.05	107
Zinc	1	96

QUALITY CONTROL DATA

INORGANICS

PHENOLICS

Golder Associates, Inc.

Project: G01
Matrix: Water
Test Code: PHEN

QC Lot Number (QC Limits)	Spike Level (mg/L)	RS (75-125)	RSD (75-125)	RPD (20)
8711040A	0.1	108	103	4.7

Enseco

QUALITY CONTROL DATA

INORGANICS

TOTAL CYANIDE

Golder Associates, Inc.

Project: G01
Matrix: Water
Test Code: CNT

QC Lot Number (QC Limits)	Spike Level (mg/L)	RS (75-125)	RSD (75-125)	RPD (20)
8711040B	0.1	94	93	1.1

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: G01-62 Enseco I.D.: NA

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87 Prepared: 09/25/87 Analyzed: 09/27/87

Parameter	Result	Units	Reporting Limit*
Alpha-BHC	ND	ug/L	0.25
Beta-BHC	ND	ug/L	0.25
Delta-BHC	ND	ug/L	0.25
Gamma-BHC (Lindane)	ND	ug/L	0.25
Heptachlor	ND	ug/L	0.25
Aldrin	ND	ug/L	0.25
Heptachlor Epoxide	ND	ug/L	0.25
Endosulfan I	ND	ug/L	0.25
Dieldrin	ND	ug/L	0.5
4,4'-DDE	ND	ug/L	0.5
Endrin	ND	ug/L	0.5
Endosulfan II	ND	ug/L	0.5
4,4'-DDD	ND	ug/L	0.5
Endosulfan Sulfate	ND	ug/L	0.5
4,4'-DDT	ND	ug/L	0.5
Endrin Ketone	ND	ug/L	0.5
Methoxychlor	ND	ug/L	2.5
Chlordane	ND	ug/L	2.5
Toxaphene	ND	ug/L	5
Aroclor-1016	ND	ug/L	10
Aroclor-1221	ND	ug/L	10
Aroclor-1232	ND	ug/L	10
Aroclor-1242	ND	ug/L	10
Aroclor-1248	ND	ug/L	10
Aroclor-1254	ND	ug/L	5
Aroclor-1260	ND	ug/L	5

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: G01-62 Enseco I.D.: NA

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87 Prepared: NA Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl Chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene Chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon Tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	110	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	28	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Sample I.D.: Well #89

Project: G01
CLE I.D.: G01-62
Fraction: VOA

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
Total Xylenes	870,897	A	22*
Styrene	859	A	7*

1 A = High B = Moderate

2 Estimated concentration based on response of 1,4-difluorobenzene.

*Quantitation based on authentic standard.

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: G01-62 Enseco I.D.: NA

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Phenol	3700	ug/L	200
bis(2-Chloroethyl)ether	ND	ug/L	200
2-Chlorophenol	ND	ug/L	200
1,3-Dichlorobenzene	ND	ug/L	200
1,4-Dichlorobenzene	ND	ug/L	200
1,2-Dichlorobenzene	ND	ug/L	200
bis(2-Chloroisopropyl)ether	ND	ug/L	200
N-Nitroso-dipropylamine	ND	ug/L	200
Hexachloroethane	ND	ug/L	200
Nitrobenzene	ND	ug/L	200
Isophorone	ND	ug/L	200
2-Nitrophenol	ND	ug/L	200
2,4-Dimethylphenol	1000	ug/L	200
bis(2-Chloroethoxy)methane	ND	ug/L	200
2,4-Dichlorophenol	ND	ug/L	200
1,2,4-Trichlorobenzene	ND	ug/L	200
Naphthalene	2700	ug/L	200
Hexachlorobutadiene	ND	ug/L	200
4-Chloro-3-methylphenol	ND	ug/L	200
Hexachlorocyclopentadiene	ND	ug/L	200
2,4,6-Trichlorophenol	ND	ug/L	200
2-Chloronaphthalene	ND	ug/L	200
Dimethyl phthalate	ND	ug/L	200
Acenaphthylene	460	ug/L	200
Acenaphthene	ND	ug/L	200
2,4-Dinitrophenol	ND	ug/L	1000
4-Nitrophenol	ND	ug/L	1000
2,4-Dinitrotoluene	ND	ug/L	200
2,6-Dinitrotoluene	ND	ug/L	200
Diethyl phthalate	ND	ug/L	200
4-Chlorophenyl phenyl ether	ND	ug/L	200
Fluorene	ND	ug/L	200
4,6-Dinitro-2-methylphenol	ND	ug/L	1000
1,2-Diphenylhydrazine	ND	ug/L	200
N-Nitrosodiphenylamine	ND	ug/L	200
4-Bromophenyl phenyl ether	ND	ug/L	200

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PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: G01-62 Enseco I.D.: NA

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	200
Pentachlorophenol	ND	ug/L	1000
Phenanthrene	ND	ug/L	200
Anthracene	ND	ug/L	200
Di-n-butyl phthalate	ND	ug/L	200
Fluoranthene	ND	ug/L	200
Pyrene	ND	ug/L	200
Butyl benzyl phthalate	ND	ug/L	200
3,3'-Dichlorobenzidine	ND	ug/L	400
Benzo(a)anthracene	ND	ug/L	200
bis(2-Ethylhexyl)phthalate	ND	ug/L	200
Chrysene	ND	ug/L	200
Di-n-octyl phthalate	ND	ug/L	200
Benzo(b)fluoranthene	ND	ug/L	200
Benzo(k)fluoranthene	ND	ug/L	200
Benzo(a)pyrene	ND	ug/L	200
Indeno(1,2,3-c,d)pyrene	ND	ug/L	200
Dibenzo(a,h)anthracene	ND	ug/L	200
Benzo(g,h,i)perylene	ND	ug/L	200

ND = Not Detected

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #89

Project: G01
CLE I.D.: G01-62
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
2-Methyl Phenol	424	A	1900*
4-Methyl Phenol	445	A	5100*
C_2Phenol	534	A	1600
Isoquinoline (or isomer)	604	A	700
Isoquinoline (or isomer)	624	A	360
1H-Inole	651	A	780
2-Methyl naphthalene	656	A	240
C_1 Quinoline	667	A	380
Unknown	831	-	660
Unknown	837	-	380
Unknown	872	-	300
Unknown	974	-	280
Dibenzo[B,E][1,4]dioxin (or isomer)	1022	B	240
5H-Indeno[1,2-B] pyridine	1072	B	280
Dibenzo[B,E][1,4]dioxin (or isomer)	1090	B	240

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

*Quantitation based on authentic standard.

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PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: 31589-03 Enseco I.D.: G01-62

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/29/87
Arsenic	0.0093	mg/L	0.003	206.2	09/29/87
Beryllium	ND	mg/L	0.001	200.7	09/29/87
Cadmium	ND	mg/L	0.005	200.7	09/29/87
Chromium	0.013	mg/L	0.01	200.7	09/29/87
Copper	ND	mg/L	0.006	200.7	09/29/87
Lead	0.011	mg/L	0.002	239.2	09/29/87
Mercury	ND	mg/L	0.0002	245.1	09/29/87
Nickel	ND	mg/L	0.04	200.7	09/29/87
Selenium	ND	mg/L	0.002	270.2	09/29/87
Silver	0.0072	mg/L	0.005	200.7	09/29/87
Thallium	ND	mg/L	0.004	279.2	09/29/87
Zinc	0.044	mg/L	0.01	200.7	09/29/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: 31589-03 Enseco I.D.: G01-62

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/29/87
Arsenic	0.0086	mg/L	0.003	206.2	09/29/87
Beryllium	ND	mg/L	0.001	200.7	09/29/87
Cadmium	ND	mg/L	0.005	200.7	09/29/87
Chromium	ND	mg/L	0.01	200.7	09/29/87
Copper	ND	mg/L	0.006	200.7	09/29/87
Lead	ND	mg/L	0.002	239.2	09/29/87
Mercury	ND	mg/L	0.0002	245.1	09/29/87
Nickel	ND	mg/L	0.04	200.7	09/29/87
Selenium	ND	mg/L	0.002	270.2	09/29/87
Silver	0.0070	mg/L	0.005	200.7	09/29/87
Thallium	ND	mg/L	0.004	279.2	09/29/87
Zinc	0.012	mg/L	0.01	200.7	09/29/87

ND = Not Detected

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INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #89

Laboratory I.D.: 31589-03 Enseco I.D.: G01-62

Matrix: Water Sampled: 09/23/87 Received: 09/24/87

Authorized: 09/24/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	1.1	mg/L	0.01	335.3	09/29/87
Phenolics	23	mg/L	0.01	420.1	09/29/87

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APPENDIX IX

ORGANOCHLORINE PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: G01-64 Enseco I.D.: NA

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/27/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.05
Beta-BHC	ND	ug/L	0.05
Delta-BHC	ND	ug/L	0.05
Gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1
Isodrin	ND	ug/L	0.05
Chlorobenzilate	ND	ug/L	1
Kepone	ND	ug/L	0.5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

PHENOXY HERBICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: G01-64 Enseco I.D.: NA

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
2,4-D	ND	ug/L	0.4
2,4,5-TP	ND	ug/L	0.1
2,4,5-T	ND	ug/L	0.1

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

ORGANOPHOSPHOROUS PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: G01-64 Enseco I.D.: NA

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
Thionazin	ND	ug/L	0.5
Sulfotepp	ND	ug/L	0.5
Disulfoton	ND	ug/L	0.5
Methyl Parathion	ND	ug/L	0.5
Parathion	ND	ug/L	0.5
Famphur	ND	ug/L	2.0
Dimethoate	ND	ug/L	0.5
Phorate	ND	ug/L	0.5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

VOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: NA Analyzed: 09/30/87

Parameter	Result	Units	Reporting Limit
Acetone	ND	ug/L	25
Acetonitrile	ND	ug/L	50
Acrolein	ND	ug/L	50
Acrylonitrile	ND	ug/L	50
Allyl chloride	ND	ug/L	50
Benzene	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
Bromoform	ND	ug/L	5
Bromomethane	ND	ug/L	10
Carbon disulfide	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
2-Chloro-1,3-butadiene	ND	ug/L	10
Chloroethane	ND	ug/L	10
Chloroform	ND	ug/L	5
Chloromethane	ND	ug/L	10
Dibromochloromethane	ND	ug/L	5
1,2-Dibromo-3-chloropropane	ND	ug/L	5
1,2-Dibromoethane	ND	ug/L	5
trans-1,4-Dichloro-2-butene	ND	ug/L	10
Dichlorodifluoromethane	ND	ug/L	50
1,1-Dichloroethane	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	85	ug/L	5
1,1-Dichloroethene	ND	ug/L	5
Dichloromethane	ND	ug/L	25
1,2-Dichloropropane	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
1,4-Dioxane	ND	ug/L	400
Ethyl benzene	ND	ug/L	5
Ethyl cyanide	ND	ug/L	200
2-Hexanone	ND	ug/L	10
Iodomethane	ND	ug/L	10
Isobutyl alcohol	ND	ug/L	400
Methacrylonitrile	ND	ug/L	20

Enseco

APPENDIX IX

VOLATILE ORGANICS Cont.

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: NA Analyzed: 09/30/87

Parameter	Result	Units	Reporting Limit
Methyl ethyl ketone	ND	ug/L	20
4-Methyl-2-pentanone	ND	ug/L	10
Styrene	ND	ug/L	5
1,1,1,2-Tetrachloroethane	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Trichlorofluoromethane	ND	ug/L	50
1,2,3-Trichloropropane	ND	ug/L	5
Vinyl acetate	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Xylene (total)	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	10
Acenaphthalene	ND	ug/L	10
Acetophenone	ND	ug/L	10
2-Acetylaminofluorene	ND	ug/L	20
4-Aminobiphenyl	ND	ug/L	10
Aniline	ND	ug/L	10
Anthracene	ND	ug/L	10
Aramite	ND	ug/L	100
Benz(a)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Benzyl alcohol	ND	ug/L	10
Bis(2-chloroethoxy)methane	ND	ug/L	10
Bis(2-Chloroethyl)ether	ND	ug/L	10
Bis(2-chloroisopropyl)ether	ND	ug/L	10
Bis(2-ethylhexyl)phthalate	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10
Butylbenzyl phthalate	ND	ug/L	10
2-sec-Butyl-4,6-dinitrophenol	ND	ug/L	50
p-Chloroaniline	ND	ug/L	20
p-Chloro-m-cresol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Chrysene	ND	ug/L	10
o-Cresol	ND	ug/L	10
m/p-Cresol	ND	ug/L	10
Dibenz(a,h)anthracene	ND	ug/L	10
Dibenzofuran	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
o-Dichlorobenzene	ND	ug/L	10
m-Dichlorobenzene	ND	ug/L	10
p-Dichlorobenzene	ND	ug/L	10

Enseco

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
3,3'-Dichlorobenzidine	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	10
2,6-Dichlorophenol	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
p-Dimethylaminoazobenzene	ND	ug/L	20
3,3'-Dimethylbenzidine	ND	ug/L	100
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10
alpha,alpha-Dimethylphenethylamine	ND	ug/L	50
2,4-Dimethylphenol	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
m-Dinitrobenzene	ND	ug/L	20
4,6-Dinitro-o-cresol	ND	ug/L	50
2,4-Dinitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Diphenylamine	ND	ug/L	10
Ethyl methacrylate	ND	ug/L	NR
Fluoranthene	ND	ug/L	10
Fluorene	ND	ug/L	10
Hexachlorobenzene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Hexachlorophene	ND	ug/L	NR
Hexachloropropene	ND	ug/L	50
Indeno(1,2,3-cd)pyrene	ND	ug/L	10
Isosafrole	ND	ug/L	20
Isophorone	ND	ug/L	10
Methapyrilene	ND	ug/L	10
3-Methylcholanthrene	ND	ug/L	50
Methyl methacrylate	ND	ug/L	NR
Methyl methanesulfonate	ND	ug/L	50
2-Methylnaphthalene	ND	ug/L	10
Naphthalene	22	ug/L	10

Enseco

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
1,4-Naphthoquinone	ND	ug/L	20
1,4-Naphthylamine	ND	ug/L	50
1-Naphthylamine	ND	ug/L	100
2-Naphthylamine	ND	ug/L	50
2-Nitroaniline	ND	ug/L	50
3-Nitroaniline	ND	ug/L	50
4-Nitroaniline	ND	ug/L	50
Nitrobenzene	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
4-Nitrophenol	ND	ug/L	50
4-Nitroquinoline-1-oxide	ND	ug/L	NR
N-Nitrosodiphenylamine (1)	ND	ug/L	10
N-Nitrosodi-n-butylamine	ND	ug/L	10
N-Nitrosodiethylamine	ND	ug/L	20
N-Nitrosodimethylamine	ND	ug/L	10
N-Nitrosodipropylamine	ND	ug/L	10
N-Nitrosomethylethylamine	ND	ug/L	10
N-Nitrosomorpholine	ND	ug/L	20
N-Nitrosopiperidine	ND	ug/L	10
N-Nitrosopyrrolidine	ND	ug/L	10
5-Nitro-o-toluidine	ND	ug/L	10
Pentachlorobenzene	ND	ug/L	10
Pentachloroethane	ND	ug/L	10
Pentachloronitrobenzene	ND	ug/L	50
Pentachlorophenol	ND	ug/L	50
Phenacetin	ND	ug/L	10
Phenanthrene	ND	ug/L	10
Phenol	ND	ug/L	10
p-Phenylenediamine	ND	ug/L	NR
2-Picoline	ND	ug/L	50
Pronamide	ND	ug/L	20
Pyrene	ND	ug/L	10
Pyridine	ND	ug/L	NR
Safrole	ND	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10
2,3,4,6-Tetrachlorophenol	ND	ug/L	20

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APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 64640-001 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/25/87 Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
o-Toluidine	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
2,4,5-Trichlorophenol	ND	ug/L	50
2,4,6-trichlorophenol	ND	ug/L	10
Sym-Trinitrobenzene	ND	ug/L	50

ND = Not Detected
NR = Not Recovered

Enseco

APPENDIX IX

POLYCHLORINATED DIOXINS AND FURANS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 31588-01 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: _____ Analyzed: 10/01/87

Parameter	Result	Units	Reporting Limit
Tetrachlorodibenzofurans	ND	ng/L	0.11
Pentachlorodibenzofurans	ND	ng/L	0.28
Hexachlorodibenzofurans	ND	ng/L	0.26
Tetrachlorodibenzodioxins	ND	ng/L	0.16
Pentachlorodibenzodioxins	ND	ng/L	0.37
Hexachlorodibenzodioxins	ND	ng/L	0.77

ND = Not Detected

Enseco

APPENDIX IX

METALS (TOTAL)

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 31588-01 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87 Prepared: 09/29/87

Parameter	Result	Units	Reporting Limit	Date Analyzed
Antimony	ND	mg/L	0.05	09/29/87
Arsenic	ND	mg/L	0.003	09/29/87
Barium	ND	mg/L	0.01	09/29/87
Beryllium	ND	mg/L	0.001	09/29/87
Cadmium	ND	mg/L	0.005	09/29/87
Chromium	0.017	mg/L	0.01	09/29/87
Cobalt	ND	mg/L	0.01	09/29/87
Copper	0.0087	mg/L	0.006	09/29/87
Lead	ND	mg/L	0.002	09/29/87
Mercury	ND	mg/L	0.0002	09/29/87
Nickel	ND	mg/L	0.04	09/29/87
Selenium	ND	mg/L	0.002	09/29/87
Silver	ND	mg/L	0.005	09/29/87
Thallium	ND	mg/L	0.004	09/29/87
Tin	ND	mg/L	0.03	09/29/87
Vanadium	ND	mg/L	0.01	09/29/87
Zinc	0.012	mg/L	0.01	09/29/87

ND = Not Detected

Enseco

APPENDIX IX

MISCELLANEOUS PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 31588-01 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/29/87
Total Sulfide	0.08	mg/L	0.05	376.2	10/02/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #90

Laboratory I.D.: 31588-01 Enseco I.D.: G01-64

Matrix: Water Sampled: 09/24/87 Received: 09/25/87

Authorized: 09/25/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Phenolics	ND	mg/L	0.01	420.1	09/29/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: G01-21 Enseco I.D.: NA

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87 Prepared: 09/01/87 Analyzed: 09/05/87

Parameter	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.05
beta-BHC	ND	ug/L	0.05
delta-BHC	ND	ug/L	0.05
gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin ketone	ND	ug/L	0.5
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: G01-21 Enseco I.D.: NA

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87 Prepared: NA Analyzed: 08/31/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	21	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	9	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-21	Driller's Water

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: G01-21 Enseco I.D.: NA

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87 Prepared: 09/03/87 Analyzed: 09/08/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: G01-21 Enseco I.D.: NA

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87 Prepared: 09/03/87 Analyzed: 09/08/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Driller's Water

Project: G01
CLE I.D.: G01-21
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
Unknown (alkyl phenol)	840	-	16

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: 64447-001 Enseco I.D.: G01-21

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/18/87
Arsenic	ND	mg/L	0.003	206.2	09/08/87
Beryllium	ND	mg/L	0.001	200.7	09/18/87
Cadmium	ND	mg/L	0.005	200.7	09/18/87
Chromium	0.10	mg/L	0.01	200.7	09/18/87
Copper	0.010	mg/L	0.006	200.7	09/18/87
Lead	0.005	mg/L	0.002	239.2	09/08/87
Mercury	ND	mg/L	0.0001	245.1	09/15/87
Nickel	ND	mg/L	0.04	200.7	09/18/87
Selenium	ND	mg/L	0.002	270.2	09/08/87
Silver	ND	mg/L	0.005	200.7	09/18/87
Thallium	ND	mg/L	0.004	279.2	09/08/87
Zinc	0.11	mg/L	0.01	200.7	09/18/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: 64447-001 Enseco I.D.: G01-21

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/17/87
Arsenic	ND	mg/L	0.003	206.2	09/22/87
Beryllium	ND	mg/L	0.001	200.7	09/17/87
Cadmium	ND	mg/L	0.005	200.7	09/17/87
Chromium	ND	mg/L	0.01	200.7	09/17/87
Copper	ND	mg/L	0.006	200.7	09/17/87
Lead	ND	mg/L	0.004	239.2	09/22/87
Mercury	ND	mg/L	0.0001	245.1	09/15/87
Nickel	ND	mg/L	0.04	200.7	09/17/87
Selenium	ND	mg/L	0.002	270.2	09/22/87
Silver	ND	mg/L	0.005	200.7	09/17/87
Thallium	ND	mg/L	0.004	279.2	09/21/87
Zinc	0.03	mg/L	0.01	200.7	09/17/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Driller's Water

Laboratory I.D.: 64447-001 Enseco I.D.: G01-21

Matrix: Water Sampled: 08/28/87 Received: 08/29/87

Authorized: 08/29/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/09/87
Phenolics	ND	mg/L	0.01	420.1	09/03/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: G01-41 Enseco I.D.: NA

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87 Prepared: 09/14/87 Analyzed: 09/17/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.05
Beta-BHC	ND	ug/L	0.05
Delta-BHC	ND	ug/L	0.05
Gamma-BHC (Lindane)	ND	ug/L	0.05
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	0.5
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	0.5
Aroclor-1221	ND	ug/L	0.5
Aroclor-1232	ND	ug/L	0.5
Aroclor-1242	ND	ug/L	0.5
Aroclor-1248	ND	ug/L	0.5
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1

ND = Not Detected
NA = Not Applicable

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: G01-41 Enseco I.D.: NA

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87 Prepared: NA Analyzed: 09/15/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl Chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene Chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethane	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-41	Slag Truck Sample

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: G01-41 Enseco I.D.: NA

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87 Prepared: 09/14/87 Analyzed: 09/15/87

Parameter	Result	Units	Reporting Limit
Phenol	160	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: G01-41 Enseco I.D.: NA

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87 Prepared: 09/14/87 Analyzed: 09/15/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Slag Truck Sample

Project: G01
CLE I.D.: G01-41
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Unknown Phenol	566	----	20
Unknown Phenol	590	----	24
Sulfur	1215	----	14
Unknown	1272	----	90

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: 64529-004 Enseco I.D.: G01-41

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/25/87
Arsenic	0.02	mg/L	0.02	206.2	09/28/87
Beryllium	ND	mg/L	0.001	200.7	09/25/87
Cadmium	ND	mg/L	0.005	200.7	09/25/87
Chromium	ND	mg/L	0.01	200.7	09/25/87
Copper	ND	mg/L	0.006	200.7	09/25/87
Lead	ND	mg/L	0.008	239.2	09/28/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/25/87
Selenium	0.02	mg/L	0.01	270.2	09/28/87
Silver	ND	mg/L	0.005	200.7	09/25/87
Thallium	ND	mg/L	0.02	279.2	09/28/87
Zinc	0.02	mg/L	0.01	200.7	09/25/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: 64529-004 Enseco I.D.: G01-41

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/23/87
Arsenic	ND	mg/L	0.006	206.2	09/25/87
Beryllium	ND	mg/L	0.001	200.7	09/23/87
Cadmium	ND	mg/L	0.005	200.7	09/23/87
Chromium	ND	mg/L	0.01	200.7	09/23/87
Copper	ND	mg/L	0.006	200.7	09/23/87
Lead	ND	mg/L	0.008	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/23/87
Selenium	0.03	mg/L	0.01	270.2	09/25/87
Silver	ND	mg/L	0.005	200.7	09/23/87
Thallium	ND	mg/L	0.02	279.2	09/25/87
Zinc	ND	mg/L	0.01	200.7	09/23/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Slag Truck Sample

Laboratory I.D.: 64529-004 Enseco I.D.: G01-41

Matrix: Water Sampled: 09/10/87 Received: 09/11/87

Authorized: 09/11/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/23/87
Phenolics	0.25	mg/L	0.01	420.1	09/17/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: G01-38 Enseco I.D.: NA

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87 Prepared: 09/14/87 Analyzed: 09/17/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.1*
Beta-BHC	ND	ug/L	0.1*
Delta-BHC	ND	ug/L	0.1*
Gamma-BHC (Lindane)	ND	ug/L	0.1*
Heptachlor	ND	ug/L	0.05
Aldrin	ND	ug/L	0.05
Heptachlor Epoxide	ND	ug/L	0.05
Endosulfan I	ND	ug/L	0.05
Dieldrin	ND	ug/L	0.1
4,4'-DDE	ND	ug/L	0.1
Endrin	ND	ug/L	0.1
Endosulfan II	ND	ug/L	0.1
4,4'-DDD	ND	ug/L	0.1
Endosulfan Sulfate	ND	ug/L	0.1
4,4'-DDT	ND	ug/L	0.1
Endrin Ketone	ND	ug/L	0.1
Methoxychlor	ND	ug/L	0.5
Chlordane	ND	ug/L	1*
Toxaphene	ND	ug/L	1
Aroclor-1016	ND	ug/L	1*
Aroclor-1221	ND	ug/L	1*
Aroclor-1232	ND	ug/L	1*
Aroclor-1242	ND	ug/L	1*
Aroclor-1248	ND	ug/L	1*
Aroclor-1254	ND	ug/L	1
Aroclor-1260	ND	ug/L	1

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

Enseco

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: G01-38 Enseco I.D.: NA

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87 Prepared: NA Analyzed: 09/10/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-38	Well #33

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: G01-38 Enseco I.D.: NA

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87 Prepared: 09/14/87 Analyzed: 09/15/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	10
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	10
4,6-Dinitro-2-methylphenol	ND	ug/L	50
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: G01-38 Enseco I.D.: NA

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87 Prepared: 09/14/87 Analyzed: 09/15/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected
NA = Not Applicable

Enseco

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #33

Project: G01
CLE I.D.: G01-38
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Unknown	346	----	35
Unknown	620	----	18
2-Methyl-1-(1,1 Dimethylethyl)-2-Methyl-1,3-Propane Propanoic Acid	900	B	12
Unknown	1237	----	16
Unknown	1272	----	44

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: 64529-002 Enseco I.D.: G01-38

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/25/87
Arsenic	0.02	mg/L	0.02	206.2	09/28/87
Beryllium	0.005	mg/L	0.001	200.7	09/25/87
Cadmium	0.011	mg/L	0.005	200.7	09/25/87
Chromium	0.21	mg/L	0.01	200.7	09/25/87
Copper	0.31	mg/L	0.006	200.7	09/25/87
Lead	0.12	mg/L	0.004	239.2	09/28/87
Mercury	0.0003	mg/L	0.0001	245.1	09/17/87
Nickel	0.18	mg/L	0.04	200.7	09/25/87
Selenium	ND	mg/L	0.04	270.2	09/28/87
Silver	ND	mg/L	0.005	200.7	09/25/87
Thallium	ND	mg/L	0.008	279.2	09/28/87
Zinc	0.61	mg/L	0.01	200.7	09/25/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: 64529-002 Enseco I.D.: G01-38

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/23/87
Arsenic	ND	mg/L	0.02	206.2	09/25/87
Beryllium	ND	mg/L	0.001	200.7	09/23/87
Cadmium	ND	mg/L	0.005	200.7	09/23/87
Chromium	ND	mg/L	0.01	200.7	09/23/87
Copper	ND	mg/L	0.006	200.7	09/23/87
Lead	ND	mg/L	0.004	239.2	09/25/87
Mercury	ND	mg/L	0.0001	245.1	09/17/87
Nickel	ND	mg/L	0.04	200.7	09/23/87
Selenium	ND	mg/L	0.008	270.2	09/25/87
Silver	ND	mg/L	0.005	200.7	09/23/87
Thallium	ND	mg/L	0.008	279.2	09/25/87
Zinc	ND	mg/L	0.01	200.7	09/23/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #33

Laboratory I.D.: 64529-002 Enseco I.D.: G01-38

Matrix: Water Sampled: 09/09/87 Received: 09/10/87

Authorized: 09/10/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/23/87
Phenolics	0.02	mg/L	0.01	420.1	09/17/87

ND = Not Detected

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/25/87 Analyzed: 09/27/87

Parameter	Result	Units	Reporting Limit*
Alpha-BHC	ND	ug/L	0.1
Beta-BHC	ND	ug/L	0.1
Delta-BHC	ND	ug/L	0.1
Gamma-BHC (Lindane)	ND	ug/L	0.1
Heptachlor	ND	ug/L	0.1
Aldrin	ND	ug/L	0.1
Heptachlor Epoxide	ND	ug/L	0.1
Endosulfan I	ND	ug/L	0.1
Dieldrin	ND	ug/L	0.2
4,4'-DDE	ND	ug/L	0.2
Endrin	ND	ug/L	0.2
Endosulfan II	ND	ug/L	0.2
4,4'-DDD	ND	ug/L	0.2
Endosulfan Sulfate	ND	ug/L	0.2
4,4'-DDT	ND	ug/L	0.2
Endrin Ketone	ND	ug/L	0.2
Methoxychlor	ND	ug/L	1
Chlordane	ND	ug/L	1
Toxaphene	ND	ug/L	2
Aroclor-1016	ND	ug/L	2
Aroclor-1221	ND	ug/L	2
Aroclor-1232	ND	ug/L	2
Aroclor-1242	ND	ug/L	2
Aroclor-1248	ND	ug/L	2
Aroclor-1254	ND	ug/L	2
Aroclor-1260	ND	ug/L	2

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: NA Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl Chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene Chloride	ND	ug/L	25
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon Tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Ensec

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

CLE I.D.	Client I.D.
G01-59	Well #86

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	10
bis(2-Chloroethyl)ether	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
1,3-Dichlorobenzene	ND	ug/L	10
1,4-Dichlorobenzene	ND	ug/L	10
1,2-Dichlorobenzene	ND	ug/L	10
bis(2-Chloroisopropyl)ether	ND	ug/L	10
N-Nitroso-dipropylamine	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Nitrobenzene	ND	ug/L	10
Isophorone	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
2,4-Dimethylphenol	ND	ug/L	10
bis(2-Chloroethoxy)methane	ND	ug/L	10
2,4-Dichlorophenol	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
Naphthalene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
4-Chloro-3-methylphenol	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
2,4,6-Trichlorophenol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
Acenaphthylene	ND	ug/L	10
Acenaphthene	ND	ug/L	50
2,4-Dinitrophenol	ND	ug/L	50
4-Nitrophenol	ND	ug/L	10
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Fluorene	ND	ug/L	50
4,6-Dinitro-2-methylphenol	ND	ug/L	10
1,2-Diphenylhydrazine	ND	ug/L	10
N-Nitrosodiphenylamine	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10

Enseco

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: G01-59 Enseco I.D.: NA

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	10
Pentachlorophenol	ND	ug/L	50
Phenanthrene	ND	ug/L	10
Anthracene	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
Fluoranthene	ND	ug/L	10
Pyrene	ND	ug/L	10
Butyl benzyl phthalate	ND	ug/L	10
3,3'-Dichlorobenzidine	ND	ug/L	20
Benzo(a)anthracene	ND	ug/L	10
bis(2-Ethylhexyl)phthalate	ND	ug/L	10
Chrysene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Indeno(1,2,3-c,d)pyrene	ND	ug/L	10
Dibenzo(a,h)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10

ND = Not Detected

Ensecc

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #86

Project: G01
CLE I.D.: G01-59
Fraction: ABN

Compound	Scan	Probability[1]	Estimated Concentration[2] (ug/L)
3-Ethoxy-3-methyl-1-Butyne	384	B	40
Unknown Hydrocarbon	894	A	12
Unknown	1144	-	12
2,5,8,11,14-Pentaoxcipentadecane	1586	B	25
Unknown	1658	-	10

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

Enseco

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	10/01/87
Arsenic	0.0080	mg/L	0.003	206.2	10/01/87
Beryllium	0.001	mg/L	0.001	200.7	10/01/87
Cadmium	ND	mg/L	0.005	200.7	10/01/87
Chromium	0.022	mg/L	0.01	200.7	10/01/87
Copper	0.026	mg/L	0.006	200.7	10/01/87
Lead	0.010	mg/L	0.002	239.2	10/01/87
Mercury	ND	mg/L	0.0002	245.1	10/01/87
Nickel	ND	mg/L	0.04	200.7	10/01/87
Selenium	ND	mg/L	0.002	270.2	10/01/87
Silver	0.0074	mg/L	0.005	200.7	10/01/87
Thallium	ND	mg/L	0.004	279.2	10/01/87
Zinc	0.078	mg/L	0.01	200.7	10/01/87

ND = Not Detected

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units	Reporting Limit	Analytical Method	Date Analyzed
Antimony	ND	mg/L	0.05	200.7	09/29/87
Arsenic	ND	mg/L	0.003	206.2	09/29/87
Beryllium	ND	mg/L	0.001	200.7	09/29/87
Cadmium	ND	mg/L	0.005	200.7	09/29/87
Chromium	ND	mg/L	0.01	200.7	09/29/87
Copper	ND	mg/L	0.006	200.7	09/29/87
Lead	ND	mg/L	0.002	239.2	09/29/87
Mercury	ND	mg/L	0.0002	245.1	09/29/87
Nickel	ND	mg/L	0.04	200.7	09/29/87
Selenium	ND	mg/L	0.002	270.2	09/29/87
Silver	0.01	mg/L	0.005	200.7	09/29/87
Thallium	ND	mg/L	0.004	279.2	09/29/87
Zinc	0.042	mg/L	0.01	200.7	09/29/87

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #86

Laboratory I.D.: 31589-01 Enseco I.D.: G01-59

Matrix: Water Sampled: 09/22/87 Received: 09/23/87

Authorized: 09/23/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/29/87
Phenolics	0.35	mg/L	0.01	420.1	09/29/87

ND = Not Detected

Enseco

APPENDIX IX

ORGANOCHLORINE PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit*
Alpha-BHC	ND	ug/L	0.1
Beta-BHC	ND	ug/L	0.1
Delta-BHC	ND	ug/L	0.1
Gamma-BHC (Lindane)	ND	ug/L	0.1
Heptachlor	ND	ug/L	0.1
Aldrin	ND	ug/L	0.1
Heptachlor Epoxide	ND	ug/L	0.1
Endosulfan I	ND	ug/L	0.1
Dieldrin	ND	ug/L	0.2
4,4'-DDE	ND	ug/L	0.2
Endrin	ND	ug/L	0.2
Endosulfan II	ND	ug/L	0.2
4,4'-DDD	ND	ug/L	0.2
Endosulfan Sulfate	ND	ug/L	0.2
4,4'-DDT	ND	ug/L	0.2
Endrin Ketone	ND	ug/L	0.2
Methoxychlor	ND	ug/L	1
Chlordane	ND	ug/L	1
Toxaphene	ND	ug/L	2
Aroclor-1016	ND	ug/L	1
Aroclor-1221	ND	ug/L	1
Aroclor-1232	ND	ug/L	1
Aroclor-1242	ND	ug/L	1
Aroclor-1248	ND	ug/L	1
Aroclor-1254	ND	ug/L	2
Aroclor-1260	ND	ug/L	2
Isodrin	ND	ug/L	0.1
Chlorobenzilate	ND	ug/L	2
Kepone	ND	ug/L	1

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

APPENDIX IX

PHENOXY HERBICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
2,4-D	ND	ug/L	0.4
2,4,5-TP	ND	ug/L	0.2*
2,4,5-T	ND	ug/L	0.1

ND = Not Detected
NA = Not Applicable
*Reporting limit raised due to interference.

APPENDIX IX

ORGANOPHOSPHOROUS PESTICIDES

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/25/87 Analyzed: 09/26/87

Parameter	Result	Units	Reporting Limit
Thionazin	ND	ug/L	0.5
Sulfotepp	ND	ug/L	0.5
Disulfoton	ND	ug/L	0.5
Methyl Parathion	ND	ug/L	0.5
Parathion	ND	ug/L	0.5
Famphur	ND	ug/L	2.0
Dimethoate	ND	ug/L	0.5
Phorate	ND	ug/L	0.5

ND = Not Detected
NA = Not Applicable

APPENDIX IX

VOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: NA Analyzed: 09/22/87

Parameter	Result	Units	Reporting Limit
Acetone	ND	ug/L	25
Acetonitrile	ND	ug/L	50
Acrolein	ND	ug/L	50
Acrylonitrile	ND	ug/L	50
Allyl chloride	ND	ug/L	50
Benzene	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
Bromoform	ND	ug/L	5
Bromomethane	ND	ug/L	10
Carbon disulfide	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
2-Chloro-1,3-butadiene	ND	ug/L	10
Chloroethane	ND	ug/L	10
Chloroform	ND	ug/L	5
Chloromethane	ND	ug/L	10
Dibromochloromethane	ND	ug/L	5
1,2-Dibromo-3-chloropropane	ND	ug/L	5
1,2-Dibromoethane	ND	ug/L	5
trans-1,4-Dichloro-2-butene	ND	ug/L	10
Dichlorodifluoromethane	ND	ug/L	50
1,1-Dichloroethane	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
1,1-Dichloroethene	ND	ug/L	5
Dichloromethane	ND	ug/L	25
1,2-Dichloropropane	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
1,4-Dioxane	ND	ug/L	400
Ethyl benzene	ND	ug/L	5
Ethyl cyanide	ND	ug/L	200
2-Hexanone	ND	ug/L	10
Iodomethane	ND	ug/L	10
Isobutyl alcohol	ND	ug/L	400
Methacrylonitrile	ND	ug/L	20

APPENDIX IX

VOLATILE ORGANICS Cont.

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: G01-56 Enseco I.D.: NA

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: NA Analyzed: 09/12/87

Parameter	Result	Units	Reporting Limit
Methyl ethyl ketone	ND	ug/L	20
4-Methyl-2-pentanone	ND	ug/L	10
Styrene	ND	ug/L	5
1,1,1,2-Tetrachloroethane	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Trichlorofluoromethane	ND	ug/L	50
1,2,3-Trichloropropane	ND	ug/L	5
Vinyl acetate	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Xylene (total)	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

Enseco

APPENDIX IX

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
Acenaphthene	ND	ug/L	10
Acenaphthalene	ND	ug/L	10
Acetophenone	ND	ug/L	10
2-Acetylaminofluorene	ND	ug/L	20
4-Aminobiphenyl	ND	ug/L	10
Aniline	ND	ug/L	10
Anthracene	ND	ug/L	10
Aramite	ND	ug/L	100
Benz(a)anthracene	ND	ug/L	10
Benzo(g,h,i)perylene	ND	ug/L	10
Benzo(b)fluoranthene	ND	ug/L	10
Benzo(k)fluoranthene	ND	ug/L	10
Benzo(a)pyrene	ND	ug/L	10
Benzyl alcohol	ND	ug/L	10
Bis(2-chloroethoxy)methane	ND	ug/L	10
Bis(2-Chloroethyl)ether	ND	ug/L	10
Bis(2-chloroisopropyl)ether	ND	ug/L	10
Bis(2-ethylhexyl)phthalate	ND	ug/L	10
4-Bromophenyl phenyl ether	ND	ug/L	10
Butylbenzyl phthalate	ND	ug/L	10
2-sec-Butyl-4,6-dinitrophenol	ND	ug/L	50
p-Chloroaniline	ND	ug/L	20
p-Chloro-m-cresol	ND	ug/L	10
2-Chloronaphthalene	ND	ug/L	10
2-Chlorophenol	ND	ug/L	10
4-Chlorophenyl phenyl ether	ND	ug/L	10
Chrysene	ND	ug/L	10
o-Cresol	ND	ug/L	10
m/p-Cresol	ND	ug/L	10
Dibenz(a,h)anthracene	ND	ug/L	10
Dibenzofuran	ND	ug/L	10
Di-n-butyl phthalate	ND	ug/L	10
o-Dichlorobenzene	ND	ug/L	10
m-Dichlorobenzene	ND	ug/L	10
p-Dichlorobenzene	ND	ug/L	10

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
3,3'-Dichlorobenzidine	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	10
2,6-Dichlorophenol	ND	ug/L	10
Diethyl phthalate	ND	ug/L	10
p-Dimethylaminoazobenzene	ND	ug/L	20
3,3'-Dimethylbenzidine	ND	ug/L	100
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10
alpha,alpha-Dimethylphenethylamine	ND	ug/L	50
2,4-Dimethylphenol	ND	ug/L	10
Dimethyl phthalate	ND	ug/L	10
m-Dinitrobenzene	ND	ug/L	20
4,6-Dinitro-o-cresol	ND	ug/L	50
2,4-Dinitrophenol	ND	ug/L	50
2,4-Dinitrotoluene	ND	ug/L	10
2,6-Dinitrotoluene	ND	ug/L	10
Di-n-octyl phthalate	ND	ug/L	10
Diphenylamine	ND	ug/L	10
Ethyl methacrylate	ND	ug/L	NR
Fluoranthene	ND	ug/L	10
Fluorene	ND	ug/L	10
Hexachlorobenzene	ND	ug/L	10
Hexachlorobutadiene	ND	ug/L	10
Hexachlorocyclopentadiene	ND	ug/L	10
Hexachloroethane	ND	ug/L	10
Hexachlorophene	ND	ug/L	NR
Hexachloropropene	ND	ug/L	50
Indeno(1,2,3-cd)pyrene	ND	ug/L	10
Isosafrole	ND	ug/L	20
Isophorone	ND	ug/L	10
Methapyrilene	ND	ug/L	10
3-Methylcholanthrene	ND	ug/L	50
Methyl methacrylate	ND	ug/L	NR
Methyl methanesulfonate	ND	ug/L	50
2-Methylnaphthalene	ND	ug/L	10
Naphthalene	ND	ug/L	10

APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
1,4-Naphthoquinone	ND	ug/L	20
1,4-Naphthylamine	ND	ug/L	50
1-Naphthylamine	ND	ug/L	100
2-Naphthylamine	ND	ug/L	50
2-Nitroaniline	ND	ug/L	50
3-Nitroaniline	ND	ug/L	50
4-Nitroaniline	ND	ug/L	50
Nitrobenzene	ND	ug/L	10
2-Nitrophenol	ND	ug/L	10
4-Nitrophenol	ND	ug/L	50
4-Nitroquinoline-1-oxide	ND	ug/L	NR
N-Nitrosodiphenylamine (1)	ND	ug/L	10
N-Nitrosodi-n-butylamine	ND	ug/L	10
N-Nitrosodiethylamine	ND	ug/L	20
N-Nitrosodimethylamine	ND	ug/L	10
N-Nitrosodipropylamine	ND	ug/L	10
N-Nitrosomethylethylamine	ND	ug/L	10
N-Nitrosomorpholine	ND	ug/L	20
N-Nitrosopiperidine	ND	ug/L	10
N-Nitrosopyrrolidine	ND	ug/L	10
5-Nitro-o-toluidine	ND	ug/L	10
Pentachlorobenzene	ND	ug/L	10
Pentachloroethane	ND	ug/L	10
Pentachloronitrobenzene	ND	ug/L	50
Pentachlorophenol	ND	ug/L	50
Phenacetin	ND	ug/L	10
Phenanthrene	ND	ug/L	10
Phenol	ND	ug/L	10
p-Phenylenediamine	ND	ug/L	NR
2-Picoline	ND	ug/L	50
Pronamide	ND	ug/L	20
Pyrene	ND	ug/L	10
Pyridine	ND	ug/L	NR
Safrole	ND	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10
2,3,4,6-Tetrachlorophenol	ND	ug/L	20

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APPENDIX IX Cont.

SEMIVOLATILE ORGANICS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 64640-001 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/24/87 Analyzed: 09/24/87

Parameter	Result	Units	Reporting Limit
o-Toluidine	ND	ug/L	10
1,2,4-Trichlorobenzene	ND	ug/L	10
2,4,5-Trichlorophenol	ND	ug/L	50
2,4,6-trichlorophenol	ND	ug/L	10
Sym-Trinitrobenzene	ND	ug/L	50

ND = Not Detected
NR = Not Recovered

Enseco

APPENDIX IX

POLYCHLORINATED DIOXINS AND FURANS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31479-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: _____ Analyzed: 09/29/87

Parameter	Result	Units	Reporting Limit
Tetrachlorodibenzofurans	ND	ng/L	0.085
Pentachlorodibenzofurans	ND	ng/L	0.32
Hexachlorodibenzofurans	ND	ng/L	0.076
Tetrachlorodibenzodioxins	ND	ng/L	0.12
Pentachlorodibenzodioxins	ND	ng/L	0.25
Hexachlorodibenzodioxins	ND	ng/L	0.34

ND = Not Detected

APPENDIX IX

METALS (TOTAL)

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/23/87

Parameter	Result	Units	Reporting Limit	Date Analyzed
Antimony	ND	mg/L	0.05	09/23/87
Arsenic	0.0068	mg/L	0.003	09/23/87
Barium	0.037	mg/L	0.01	09/23/87
Beryllium	ND	mg/L	0.001	09/23/87
Cadmium	ND	mg/L	0.005	09/23/87
Chromium	ND	mg/L	0.01	09/23/87
Cobalt	ND	mg/L	0.01	09/23/87
Copper	ND	mg/L	0.006	09/23/87
Lead	0.0042	mg/L	0.002	09/24/87
Mercury	ND	mg/L	0.0002	09/23/87
Nickel	ND	mg/L	0.04	09/23/87
Selenium	ND	mg/L	0.002	09/24/87
Silver	ND	mg/L	0.005	09/23/87
Thallium	ND	mg/L	0.004	09/24/87
Tin	ND	mg/L	0.03	09/23/87
Vanadium	ND	mg/L	0.01	09/23/87
Zinc	0.033	mg/L	0.01	09/23/87

ND = Not Detected

APPENDIX IX

METALS (DISSOLVED)

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87 Prepared: 09/23/87

Parameter	Result	Units	Reporting Limit	Date Analyzed
Antimony	ND	mg/L	0.05	09/23/87
Arsenic	0.0051	mg/L	0.003	09/25/87
Barium	0.035	mg/L	0.01	09/23/87
Beryllium	ND	mg/L	0.001	09/23/87
Cadmium	ND	mg/L	0.005	09/23/87
Chromium	ND	mg/L	0.01	09/23/87
Cobalt	ND	mg/L	0.01	09/23/87
Copper	ND	mg/L	0.006	09/23/87
Lead	0.0035	mg/L	0.002	09/23/87
Mercury	ND	mg/L	0.0002	09/23/87
Nickel	ND	mg/L	0.04	09/23/87
Selenium	ND	mg/L	0.002	09/23/87
Silver	ND	mg/L	0.005	09/23/87
Thallium	ND	mg/L	0.004	09/23/87
Tin	ND	mg/L	0.03	09/23/87
Vanadium	ND	mg/L	0.01	09/23/87
Zinc	0.030	mg/L	0.01	09/23/87

ND = Not Detected

Enseco

APPENDIX IX

MISCELLANEOUS PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #87

Laboratory I.D.: 31458-01 Enseco I.D.: G01-56

Matrix: Water Sampled: 09/18/87 Received: 09/19/87

Authorized: 09/19/87

Parameter	Result	Units (as received)	Reporting Limit	Analytical Method	Date Analyzed
Total Cyanide	ND	mg/L	0.01	335.3	09/29/87
Total Sulfide	0.13	mg/L	0.05	376.2	09/29/87

ND = Not Detected

PRIORITY POLLUTANT LIST ORGANOCHLORINE PESTICIDES/PCBs

Enseco Method 608/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/04/87

Parameter	Result	Units	Reporting Limit
Alpha-BHC	ND	ug/L	0.5*
Beta-BHC	ND	ug/L	0.5*
Delta-BHC	ND	ug/L	0.5*
Gamma-BHC (Lindane)	ND	ug/L	0.5*
Heptachlor	ND	ug/L	0.5*
Aldrin	ND	ug/L	0.5*
Heptachlor Epoxide	ND	ug/L	0.5*
Endosulfan I	ND	ug/L	0.5*
Dieldrin	ND	ug/L	0.10
4,4'-DDE	ND	ug/L	0.10
Endrin	ND	ug/L	0.10
Endosulfan II	ND	ug/L	0.10
4,4'-DDD	ND	ug/L	0.10
Endosulfan Sulfate	ND	ug/L	0.10
4,4'-DDT	ND	ug/L	0.10
Endrin Ketone	ND	ug/L	0.10
Methoxychlor	ND	ug/L	0.50
Chlordane	ND	ug/L	0.50
Toxaphene	ND	ug/L	1.0
Aroclor-1016	ND	ug/L	5.0*
Aroclor-1221	ND	ug/L	5.0*
Aroclor-1232	ND	ug/L	5.0*
Aroclor-1242	ND	ug/L	5.0*
Aroclor-1248	ND	ug/L	5.0
Aroclor-1254	ND	ug/L	1.0
Aroclor-1260	ND	ug/L	1.0

ND = Not Detected
NA = Not Applicable
*Reporting limits raised due to interference.

PRIORITY POLLUTANT LIST VOLATILE ORGANICS

Enseco Method 624/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 11/04/87 Analyzed: 11/04/87

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	5
1,1-Dichloroethene	ND	ug/L	5
1,1-Dichloroethane	ND	ug/L	5
trans-1,2-Dichloroethene	ND	ug/L	5
Chloroform	ND	ug/L	5
1,2-Dichloroethane	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	5
Carbon tetrachloride	ND	ug/L	5
Bromodichloromethane	ND	ug/L	5
1,2-Dichloropropane	ND	ug/L	5
trans-1,3-Dichloropropene	ND	ug/L	5
Trichloroethene	ND	ug/L	5
Dibromochloromethane	ND	ug/L	5
1,1,2-Trichloroethane	ND	ug/L	5
Benzene	ND	ug/L	5
cis-1,3-Dichloropropene	ND	ug/L	5
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	5
Tetrachloroethene	ND	ug/L	5
Toluene	ND	ug/L	5
Chlorobenzene	ND	ug/L	5
Ethyl benzene	ND	ug/L	5

ND = Not Detected
NA = Not Applicable

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.

Project: G01
Matrix: Water
Fraction: VOA

The following sample had no non-HSL compounds at greater than 10 percent of the response of the internal standard 1,4-difluorobenzene:

LAB I.D.	Client I.D.
32074-001	Well #88 USX

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/03/87

Parameter	Result	Units	Reporting Limit
Phenol	ND	ug/L	20
bis(2-Chloroethyl)ether	ND	ug/L	20
2-Chlorophenol	ND	ug/L	20
1,3-Dichlorobenzene	ND	ug/L	20
1,4-Dichlorobenzene	ND	ug/L	20
1,2-Dichlorobenzene	ND	ug/L	20
bis(2-Chloroisopropyl)ether	ND	ug/L	20
N-Nitroso-dipropylamine	ND	ug/L	20
Hexachloroethane	ND	ug/L	20
Nitrobenzene	ND	ug/L	20
Isophorone	ND	ug/L	20
2-Nitrophenol	ND	ug/L	20
2,4-Dimethylphenol	ND	ug/L	20
bis(2-Chloroethoxy)methane	ND	ug/L	20
2,4-Dichlorophenol	ND	ug/L	20
1,2,4-Trichlorobenzene	ND	ug/L	20
Naphthalene	ND	ug/L	20
Hexachlorobutadiene	ND	ug/L	20
4-Chloro-3-methylphenol	ND	ug/L	20
Hexachlorocyclopentadiene	ND	ug/L	20
2,4,6-Trichlorophenol	ND	ug/L	20
2-Chloronaphthalene	ND	ug/L	20
Dimethyl phthalate	ND	ug/L	20
Acenaphthylene	ND	ug/L	20
Acenaphthene	ND	ug/L	20
2,4-Dinitrophenol	ND	ug/L	100
4-Nitrophenol	ND	ug/L	100
2,4-Dinitrotoluene	ND	ug/L	20
2,6-Dinitrotoluene	ND	ug/L	20
Diethyl phthalate	ND	ug/L	20
4-Chlorophenyl phenyl ether	ND	ug/L	20
Fluorene	ND	ug/L	20
4,6-Dinitro-2-methylphenol	ND	ug/L	100
1,2-Diphenylhydrazine	ND	ug/L	20
N-Nitrosodiphenylamine	ND	ug/L	20
4-Bromophenyl phenyl ether	ND	ug/L	20

PRIORITY POLLUTANT LIST SEMIVOLATILE ORGANICS Cont.

Enseco Method 625/PP List

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87 Prepared: 10/30/87 Analyzed: 11/03/87

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	ug/L	20
Pentachlorophenol	ND	ug/L	100
Phenanthrene	ND	ug/L	20
Anthracene	ND	ug/L	20
Di-n-butyl phthalate	ND	ug/L	20
Fluoranthene	ND	ug/L	20
Pyrene	ND	ug/L	20
Butyl benzyl phthalate	ND	ug/L	20
3,3'-Dichlorobenzidine	ND	ug/L	40
Benzo(a)anthracene	ND	ug/L	20
bis(2-Ethylhexyl)phthalate	44	ug/L	20
Chrysene	ND	ug/L	20
Di-n-octyl phthalate	ND	ug/L	20
Benzo(b)fluoranthene	ND	ug/L	20
Benzo(k)fluoranthene	ND	ug/L	20
Benzo(a)pyrene	ND	ug/L	20
Indeno(1,2,3-c,d)pyrene	ND	ug/L	20
Dibenzo(a,h)anthracene	ND	ug/L	20
Benzo(g,h,i)perylene	ND	ug/L	20

ND = Not Detected
NA = Not Applicable

ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Golder Associates, Inc.
Sample I.D.: Well #88 USX

Project: G01
LAB I.D.: 32074-001
Fraction: ABN

Compound	Scan	Probability[1]	Estimated[1] Concentration (ug/L)
Hexadecanoic acid	1312	B	6
Mono-(2-ethyl) hexanedioic acid	1561	B	9

1 A = High B = Moderate

2 Estimated concentration based on response of d_{10}-phenanthrene.

PRIORITY POLLUTANT LIST

TOTAL METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Antimony	ND	mg/L	0.05	200.7
Arsenic	0.015 S	mg/L	0.003	206.2
Beryllium	0.032	mg/L	0.001	200.7
Cadmium	ND	mg/L	0.005	200.7
Chromium	1.9	mg/L	0.01	200.7
Copper	0.52	mg/L	0.006	200.7
Lead	0.094	mg/L	0.002	239.2
Mercury	ND	mg/L	0.0002	245.1
Nickel	1.1	mg/L	0.04	200.7
Selenium	ND	mg/L	0.002	270.2
Silver	ND	mg/L	0.005	200.7
Thallium	ND	mg/L	0.004	279.2
Zinc	0.82	mg/L	0.01	200.7

ND = Not Detected
S = Indicates value determined by method of standard addition.

Enseco

PRIORITY POLLUTANT LIST

DISSOLVED METALS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Antimony	ND	mg/L	0.05	200.7
Arsenic	ND	mg/L	0.003	206.2
Beryllium	ND	mg/L	0.001	200.7
Cadmium	ND	mg/L	0.005	200.7
Chromium	ND	mg/L	0.01	200.7
Copper	0.16	mg/L	0.006	200.7
Lead	0.025	mg/L	0.002	239.2
Mercury	ND	mg/L	0.0002	245.1
Nickel	ND	mg/L	0.04	200.7
Selenium	ND	mg/L	0.002	270.2
Silver	ND	mg/L	0.005	200.7
Thallium	ND	mg/L	0.004	279.2
Zinc	0.41	mg/L	0.01	200.7

ND = Not Detected

Enseco

INORGANIC PARAMETERS

Client Name: Golder Associates, Inc.

Client I.D.: Well #88 USX

Laboratory I.D.: 32074-001 Enseco I.D.: G01

Matrix: Water Sampled: 10/28/87 Received: 10/29/87

Authorized: 10/29/87

Parameter	Result	Units	Reporting Limit	Analytical Method
Total Cyanide	ND	mg/L	0.01	335.3
Phenolics	0.049	mg/L	0.01	420.1

ND = Not Detected

BCM

WASTE MANAGEMENT

"Waste Management Historical Water Quality Data"

PRIORITY POLLUTANT VOLATILE ORGANICS

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Analyzed: 02/17/88

Parameter	Result	Units	Reporting Limit
Benzene	N.D.	ug/L	5.0
Bromoform	N.D.	ug/L	5.0
Carbon tetrachloride	N.D.	ug/L	5.0
Chlorobenzene	N.D.	ug/L	5.0
Dibromochloromethane	N.D.	ug/L	5.0
Chloroethane	N.D.	ug/L	10
2-Chloroethyl vinyl ether	N.D.	ug/L	10
Chloroform	N.D.	ug/L	5.0
Bromodichloromethane	N.D.	ug/L	5.0
1,1-Dichloroethane	N.D.	ug/L	5.0
1,2-Dichloroethane	N.D.	ug/L	5.0
1,1-Dichloroethene	N.D.	ug/L	5.0
1,2-Dichloropropane	N.D.	ug/L	5.0
Ethylbenzene	N.D.	ug/L	5.0
Bromomethane	N.D.	ug/L	10
Chloromethane	N.D.	ug/L	10
Methylene chloride	N.D.	ug/L	25
1,1,2,2-Tetrachloroethane	N.D.	ug/L	5.0
Tetrachloroethene	N.D.	ug/L	5.0
Toluene	N.D.	ug/L	5.0
trans-1,2-Dichloroethene	N.D.	ug/L	5.0
1,1,1-Trichloroethane	N.D.	ug/L	5.0
1,1,2-Trichloroethane	N.D.	ug/L	5.0
Trichloroethene	N.D.	ug/L	5.0
Vinyl chloride	N.D.	ug/L	10
cis-1,3-Dichloropropene	N.D.	ug/L	5.0
trans-1,3-Dichloropropene	N.D.	ug/L	5.0

N.D. = Not detected

PRIORITY POLLUTANT VOLATILE ORGANICS (CONT.)

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Analyzed: 02/17/88

Surrogate	Result	Units	Reporting Limit
Toluene-D8	100	%	-
Bromofluorobenzene	100	%	-
1,2-Dichloroethane-D4	99	%	-

N.D. = Not detected

Reported by: Stephen Siegal Approved by: Jeffrey Lowry

SAFE DRINKING WATER ACT (SDWA) ORGANOCHLORINE PESTICIDES
EPA METHOD 608

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Prepared: 02/15/88 Analyzed: 02/26/88

Parameter	Result	Units	Reporting Limit	Regulated Limit
Lindane	N.D.	ug/L	0.10	-
Endrin	N.D.	ug/L	0.10	-
Methoxychlor	N.D.	ug/L	0.50	-
Toxaphene	N.D.	ug/L	1.0	-

N.D. = Not detected

Reported by: Debra Henderer Approved by: Susan Brillante

SAFE DRINKING WATER ACT (SDWA) HERBICIDES

EPA METHOD 615

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Prepared: 02/15/88 Analyzed: 02/29/88

Parameter	Result	Units	Reporting Limit	Regulated Limit
2,4-D	N.D.	ug/L	0.20	-
2,4,5-TP (Silvex)	N.D.	ug/L	0.10	-

N.D. = Not detected

Reported by: Donna Reinwald Approved by: Susan Brillante

METALS PARAMETERS
DISSOLVED METALS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
Arsenic	N.D.	mg/L	0.003	206.2	02/17/88
Barium	0.017	mg/L	0.005	200.7	02/22/88
Cadmium	N.D.	mg/L	0.005	200.7	02/22/88
Calcium	341	mg/L	0.1	200.7	02/22/88
Chromium	N.D.	mg/L	0.01	200.7	02/22/88
Copper	N.D.	mg/L	0.006	200.7	02/22/88
Iron	N.D.	mg/L	0.05	200.7	02/22/88
Lead	N.D.	mg/L	0.05	200.7	02/22/88
Magnesium	64	mg/L	0.1	200.7	02/22/88
Manganese	17	mg/L	0.005	200.7	02/22/88
Mercury	N.D.	ug/L	0.1	245.1	02/17/88
Potassium	N.D.	mg/L	5	200.7	02/22/88
Selenium	N.D.	mg/L	0.004	270.2	02/17/88
Silver	N.D.	mg/L	0.005	200.7	02/22/88
Sodium	74	mg/L	0.05	200.7	02/22/88
Zinc	N.D.	mg/L	0.01	200.7	02/22/88

N.D. = Not detected

Approved by: Will Pratt

INORGANIC PARAMETERS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #5

Laboratory ID: 65631-006 Enseco ID: 65631-006

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
pH	6.47	units	0.01	150.1	02/13/88
Specific Conductance @ 25C	2410	umhos/cm	1	120.1/9050	02/13/88
Fluoride	N.D.	mg/L	0.1	340.2	02/17/88
Chloride	249	mg/L	3	300.0	02/24/88
Nitrate as N	N.D.	mg/L	0.1	353.2	02/15/88
Sulfate	860	mg/L	5	300.0	02/24/88
Total Alkalinity as CaCO3	181	mg/L	5	310.1/403	02/13/88
Total Organic Carbon	14	mg/L	0.1	415.1/9060	02/19/88
Total Organic Halogen	20	ug Cl/L	5	9020	02/18/88
Ammonia as N	1.4	mg/L	0.1	350.1	02/15/88
Phenolics	N.D.	mg/L	0.01	420.1	0[illegible]/88
Turbidity	90	NTU	0.1	180.1	02/[illegible]/88
Radium 226	N.D.	pCi/L	1.0	9315	03/03/88
Radium 228	6	pCi/L	10	9320	03/09/88
Gross alpha	0.5	pCi/L	3.2	9310	03/03/88
Gross beta	7	pCi/L	11	9310	03/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 65631-006

PRIORITY POLLUTANT VOLATILE ORGANICS

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Analyzed: 02/16/88

Parameter	Result	Units	Reporting Limit
Benzene	N.D.	ug/L	5.0
Bromoform	N.D.	ug/L	5.0
Carbon tetrachloride	N.D.	ug/L	5.0
Chlorobenzene	N.D.	ug/L	5.0
Dibromochloromethane	N.D.	ug/L	5.0
Chloroethane	N.D.	ug/L	10
2-Chloroethyl vinyl ether	N.D.	ug/L	10
Chloroform	N.D.	ug/L	5.0
Bromodichloromethane	N.D.	ug/L	5.0
1,1-Dichloroethane	N.D.	ug/L	5.0
1,2-Dichloroethane	N.D.	ug/L	5.0
1,1-Dichloroethene	N.D.	ug/L	5.0
1,2-Dichloropropane	N.D.	ug/L	5.0
Ethylbenzene	N.D.	ug/L	5.0
Bromomethane	N.D.	ug/L	10
Chloromethane	N.D.	ug/L	10
Methylene chloride	N.D.	ug/L	25
1,1,2,2-Tetrachloroethane	N.D.	ug/L	5.0
Tetrachloroethene	N.D.	ug/L	5.0
Toluene	N.D.	ug/L	5.0
trans-1,2-Dichloroethene	N.D.	ug/L	5.0
1,1,1-Trichloroethane	N.D.	ug/L	5.0
1,1,2-Trichloroethane	N.D.	ug/L	5.0
Trichloroethene	N.D.	ug/L	5.0
Vinyl chloride	N.D.	ug/L	10
cis-1,3-Dichloropropene	N.D.	ug/L	5.0
trans-1,3-Dichloropropene	N.D.	ug/L	5.0

N.D. = Not detected

PRIORITY POLLUTANT VOLATILE ORGANICS (CONT.)

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Analyzed: 02/16/88

Surrogate	Result	Units	Reporting Limit
Toluene-D8	102	%	-
Bromofluorobenzene	95	%	-
1,2-Dichloroethane-D4	98	%	-

N.D. = Not detected

Reported by: Stephen Siegal Approved by: Jeffrey Lowry

SAFE DRINKING WATER ACT (SDWA) ORGANOCHLORINE PESTICIDES
EPA METHOD 608

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Prepared: 02/15/88 Analyzed: 02/26/88

Parameter	Result	Units	Reporting Limit	Regulated Limit
Lindane	N.D.	ug/L	0.10	-
Endrin	N.D.	ug/L	0.10	-
Methoxychlor	N.D.	ug/L	0.50	-
Toxaphene	N.D.	ug/L	1.0	-

N.D. = Not detected

Reported by: Debra Henderer Approved by: Susan Brillante

SAFE DRINKING WATER ACT (SDWA) HERBICIDES

EPA METHOD 615

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88 Prepared: 02/15/88 Analyzed: 02/29/88

Parameter	Result	Units	Reporting Limit	Regulated Limit
2,4-D	N.D.	ug/L	0.20	-
2,4,5-TP (Silvex)	N.D.	ug/L	0.10	-

N.D. = Not detected

Reported by: Donna Reinwald Approved by: Susan Brillante

Sample: 65631-004

METALS PARAMETERS
DISSOLVED METALS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
Arsenic	N.D.	mg/L	0.003	206.2	02/17/88
Barium	0.062	mg/L	0.005	200.7	02/22/88
Cadmium	N.D.	mg/L	0.005	200.7	02/22/88
Calcium	18	mg/L	0.1	200.7	02/22/88
Chromium	N.D.	mg/L	0.01	200.7	02/22/88
Copper	N.D.	mg/L	0.006	200.7	02/22/88
Iron	3.0	mg/L	0.05	200.7	02/22/88
Lead	N.D.	mg/L	0.05	200.7	02/22/88
Magnesium	4.2	mg/L	0.1	200.7	02/22/88
Manganese	0.20	mg/L	0.005	200.7	02/22/88
Mercury	N.D.	ug/L	0.1	245.1	02/17/88
Potassium	N.D.	mg/L	5	200.7	02/22/88
Selenium	N.D.	mg/L	0.002	270.2	02/17/88
Silver	N.D.	mg/L	0.005	200.7	02/22/88
Sodium	3.7	mg/L	0.05	200.7	02/22/88
Zinc	N.D.	mg/L	0.01	200.7	02/22/88

N.D. = Not detected

Approved by: Will Pratt

INORGANIC PARAMETERS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW #6

Laboratory ID: 65631-004 Enseco ID: 65631-004

Matrix: Groundwater Sampled: 02/12/88 Received: 02/13/88

Authorized: 02/13/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
pH	6.35	units	0.01	150.1	02/13/88
Specific Conductance @ 25C	181	umhos/cm	1	120.1/9050	02/13/88
Fluoride	N.D.	mg/L	0.1	340.2	02/17/88
Chloride	6	mg/L	3	300.0	02/24/88
Nitrate as N	N.D.	mg/L	0.1	353.2	02/15/88
Sulfate	19	mg/L	5	300.0	02/24/88
Total Alkalinity as CaCO3	50	mg/L	5	310.1/403	02/13/88
Total Organic Carbon	0.5	mg/L	0.1	415.1/9060	02/19/88
Total Organic Halogen	N.D.	ug Cl/L	5	9020	02/18/88
Ammonia as N	N.D.	mg/L	0.1	350.1	0[illegible]/88
Phenolics	N.D.	mg/L	0.01	420.1	02/[illegible]9/88
Turbidity	320	NTU	0.1	180.1	02/14/88
Radium 226	0.4	pCi/L	0.8	9315	03/03/88
Radium 228	1.0	pCi/L	5.1	9320	03/09/88
Gross alpha	0.4	pCi/L	1.1	9310	03/03/88
Gross beta	1.8	pCi/L	5.5	9310	03/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 65631-004

PRIORITY POLLUTANT VOLATILE ORGANICS

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Analyzed: 02/01/88

Parameter	Result	Units	Reporting Limit
Benzene	N.D.	ug/L	5.0
Bromoform	N.D.	ug/L	5.0
Carbon tetrachloride	N.D.	ug/L	5.0
Chlorobenzene	N.D.	ug/L	5.0
Dibromochloromethane	N.D.	ug/L	5.0
Chloroethane	N.D	ug/L	10
2-Chloroethyl vinyl ether	N.D.	ug/L	10
Chloroform	N.D.	ug/L	5.0
Bromodichloromethane	N.D.	ug/L	5.0
1,1-Dichloroethane	N.D.	ug/L	5.0
1,2-Dichloroethane	N.D.	ug/L	5.0
1,1-Dichloroethene	N.D.	ug/L	5.0
1,2-Dichloropropane	N.D.	ug/L	5.0
Ethylbenzene	N.D.	ug/L	5.0
Bromomethane	N.D.	ug/L	10
Chloromethane	N.D.	ug/L	10
Methylene chloride	N.D.	ug/L	25
1,1,2,2-Tetrachloroethane	N.D.	ug/L	5.0
Tetrachloroethene	N.D.	ug/L	5.0
Toluene	N.D.	ug/L	5.0
trans-1,2-Dichloroethene	N.D.	ug/L	5.0
1,1,1-Trichloroethane	N.D.	ug/L	5.0
1,1,2-Trichloroethane	N.D.	ug/L	5.0
Trichloroethene	N.D.	ug/L	5.0
Vinyl chloride	N.D.	ug/L	10
cis-1,3-Dichloropropene	N.D.	ug/L	5.0
trans-1,3-Dichloropropene	N.D.	ug/L	5.0

N.D. = Not detected

PRIORITY POLLUTANT VOLATILE ORGANICS (CONT.)

EPA METHOD 624

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Analyzed: 02/01/88

Surrogate	Result	Units	Reporting Limit
Toluene-D8	104	%	-
Bromofluorobenzene	110	%	-
1,2-Dichloroethane-D4	110	%	-

N.D. = Not detected

Reported by: Stephen Siegal Approved by: Jeffrey Lowry

VOLATILE ORGANICS TENTATIVE ID

#65525

Client Name: Waste Management of North America

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Analyzed: 02/01/88

Parameter	Result	Units (as received)	Reporting Limit
None Detected			

N.D. = Not detected

Reported by: Stephen Siegal Approved by: Jeffrey Lowry

Sample: 65525-001

PRIORITY POLLUTANT SEMIVOLATILE ORGANICS

EPA METHOD 625

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Prepared: 02/09/88 Analyzed: 02/11/88

Parameter	Result	Units	Reporting Limit
Acenaphthene	N.D.	ug/L	10
Acenaphthylene	N.D.	ug/L	10
Anthracene	N.D.	ug/L	10
Benzo(a)anthracene	N.D.	ug/L	10
Benzo(a)pyrene	N.D.	ug/L	10
Benzo(b)fluoranthene	N.D.	ug/L	10
Benzo(g,h,i)perylene	N.D.	ug/L	10
Benzo(k)fluoranthene	N.D.	ug/L	10
bis(2-Chloroethoxy)methane	N.D	ug/L	10
bis(2-Chloroethyl)ether	N.D.	ug/L	10
bis(2-Chloroisopropyl)ether	N.D.	ug/L	[illegible]
bis(2-Ethylhexyl)phthalate	N.D.	ug/L	[illegible]
4-Bromophenyl phenyl ether	N.D.	ug/L	10
Butylbenzyl phthalate	N.D.	ug/L	10
2-Chloronaphthalene	N.D.	ug/L	10
4-Chlorophenyl phenyl ether	N.D.	ug/L	10
Chrysene	N.D.	ug/L	10
Dibenzo(a,h)anthracene	N.D.	ug/L	10
1,2-Dichlorobenzene	N.D.	ug/L	10
1,3-Dichlorobenzene	N.D.	ug/L	10
1,4-Dichlorobenzene	N.D.	ug/L	10
3,3'-Dichlorobenzidine	N.D.	ug/L	20
Diethyl phthalate	N.D.	ug/L	10
Dimethyl phthalate	N.D.	ug/L	10
Di-n-butyl phthalate	N.D.	ug/L	10
2,4-Dinitrotoluene	N.D.	ug/L	10
2,6-Dinitrotoluene	N.D.	ug/L	10
Di-n-octyl phthalate	N.D.	ug/L	10
1,2-Diphenylhydrazine	N.D.	ug/L	10
Fluoranthene	N.D.	ug/L	10
Fluorene	N.D.	ug/L	10

N.D. = Not detected

Sample: 65525-001

PRIORITY POLLUTANT SEMIVOLATILE ORGANICS (CONT.)

EPA METHOD 625

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Prepared: 02/09/88 Analyzed: 02/11/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	N.D.	ug/L	10
Hexachlorobutadiene	N.D.	ug/L	10
Hexachlorocyclopentadiene	N.D.	ug/L	10
Hexachloroethane	N.D.	ug/L	10
Indeno(1,2,3-c,d)pyrene	N.D.	ug/L	10
Isophorone	N.D.	ug/L	10
Naphthalene	N.D.	ug/L	10
Nitrobenzene	N.D.	ug/L	10
N-Nitrosodi-n-propylamine	N.D.	ug/L	10
N-Nitrosodiphenylamine	N.D.	ug/L	10
Phenanthrene	N.D.	ug/L	10
Pyrene	N.D.	ug/L	10
1,2,4-Trichlorobenzene	N.D.	ug/L	10
2-Chlorophenol	N.D.	ug/L	10
2,4-Dichlorophenol	N.D.	ug/L	10
2,4-Dimethylphenol	N.D.	ug/L	10
4,6-Dinitro-2-methylphenol	N.D.	ug/L	50
2,4-Dinitrophenol	N.D.	ug/L	50
2-Nitrophenol	N.D.	ug/L	10
4-Nitrophenol	N.D.	ug/L	50
4-Chloro-3-methylphenol	N.D.	ug/L	10
Pentachlorophenol	N.D.	ug/L	50
Phenol	N.D.	ug/L	10
2,4,6-Trichlorophenol	N.D.	ug/L	10
Surrogate			
Nitrobenzene-D5	68	%	-
2-Fluorobiphenyl	80	%	-
Terphenyl-D14	59	%	-
Phenol-D5	39	%	-

N.D. = Not detected

PRIORITY POLLUTANT SEMIVOLATILE ORGANICS (CONT.)

EPA METHOD 625

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Prepared: 02/09/88 Analyzed: 02/11/88

Surrogate	Result	Units	Reporting Limit
2-Fluorophenol	28	%	-
2,4,6-Tribromophenol	37	%	-

N.D. = Not detected

Reported by: Jay Garamone Approved by: Jeffrey Lowry

SEMIVOLATILE ORGANICS TENTATIVE ID

#65525

Client Name: Waste Management of North America

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88 Analyzed: 02/11/88

Parameter	Result	Units (as received)	Reporting Limit
None Detected			

N.D. = Not detected

Reported by: Jay Garamone Approved by: Jeffrey Lowry

Sample: 65525-001

METALS PARAMETERS
DISSOLVED METALS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
Arsenic	N.D.	mg/L	0.003	206.2	02/08/88
Barium	0.036	mg/L	0.005	200.7	02/10/88
Cadmium	N.D.	mg/L	0.005	200.7	02/10/88
Calcium	76	mg/L	0.1	200.7	02/10/88
Chromium	N.D.	mg/L	0.01	200.7	02/10/88
Copper	N.D.	mg/L	0.006	200.7	02/10/88
Iron	N.D.	mg/L	0.05	200.7	02/10/88
Magnesium	37	mg/L	0.1	200.7	02/10/88
Manganese	0.40	mg/L	0.005	200.7	02/10/88
Mercury	N.D.	ug/L	0.1	245.1	02/04/88
Potassium	N.D.	mg/L	5	200.7	02/[illegible]/88
Selenium	N.D.	mg/L	0.004	270.2	02/[illegible]/88
Silver	N.D.	mg/L	0.005	200.7	02/10/88
Sodium	13	mg/L	0.05	200.7	02/10/88
Zinc	N.D.	mg/L	0.01	200.7	02/10/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 65525-[illegible]

METALS PARAMETERS
TOTAL METALS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
Arsenic	0.019	mg/L	0.003	206.2	02/04/88
Barium	0.26	mg/L	0.005	200.7	02/09/88
Cadmium	N.D.	mg/L	0.005	200.7	02/09/88
Calcium	67	mg/L	0.1	200.7	02/09/88
Chromium	0.07	mg/L	0.01	200.7	02/09/88
Copper	0.12	mg/L	0.006	200.7	02/09/88
Iron	94	mg/L	0.05	200.7	02/09/88
Magnesium	34	mg/L	0.1	200.7	02/09/88
Manganese	1.7	mg/L	0.005	200.7	02/09/88
Mercury	0.1	ug/L	0.1	245.1	02/04/88
Potassium	6	mg/L	5	200.7	02/09/88
Selenium	N.D.	mg/L	0.004	270.2	02/04/88
Silver	N.D.	mg/L	0.005	200.7	02/09/88
Sodium	11	mg/L	0.2	200.7	02/09/88
Zinc	0.11	mg/L	0.01	200.7	02/09/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 65525-001

INORGANIC PARAMETERS

Client Name: WASTE MANAGEMENT OF NORTH AMERICA

Client ID: GW W95

Laboratory ID: 65525-001 Enseco ID: 65525-001

Matrix: Groundwater Sampled: 01/28/88 Received: 01/29/88

Authorized: 01/29/88

Parameter	Result	Units	Reporting Limit	Analytical Method	Analyzed
Total Cyanide	N.D.	mg/L	0.01	335.3	01/09/88
Phenolics	N.D.	mg/L	0.01	420.1	02/04/87
Hexavalent Chromium	N.D.	mg/L	0.01	312B	01/29/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 65525-001

BCM

WASTE TECHNOLOGY

Antech Ltd.
[illegible]
[illegible]
[illegible]
[illegible]

September 27, 1991
Reissued October 3, 1991 (* denotes changes made)

Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street, Suite G
Naperville, IL 60563-1288

Water Characterization; Waste Technology, Inc.
Project No. 91009-02; Fairless Pipe Mill - USX Fairless
Antech Ltd. Project No. 91-1659

Dear Mr. Kubala:

Enclosed are analytical results for the samples submitted by Waste Technology, Inc. The samples were received on August 23, 1991 and logged in for analysis on August 23, 1991.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications and were found to be acceptable. Results of these analyses can be furnished upon request. If you have any questions, please call me.

Sincerely,

Dominic J. Nestasie
Organic Chemistry Manager

DJN:aeb

Enclosures

General Data Table

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1659
Receipt Date: 8/23/91
Verbal Report Date: NR
Report Date: 9/27/91
Page 1 of 3

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected August 22, 1991; Reissued October 3, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 08-0775 (NT-A)
Alkalinity	mg/l $CaCO_3$	310.2	16
Ammonia	mg/l NH_3-N	350.1	<0.1
Chloride	mg/l	325.2	21
Total Cyanide	mg/l	335.3	<0.01
Chemical Oxygen Demand	mg/l	410.1	41
Nitrate	mg/l NO_3-N	353.2	<0.1
Oil and Grease	mg/l	413.2	3
Phenolics	mg/l	420.2	<0.01
pH	pH units	150.1	9.57
Sulfate	mg/l	375.4	30
Specific Conductance @ 25°C	µmhos/cm	120.1	190
Total Dissolved Solids @ 180°C	mg/l	160.1	134
Total Organic Carbon	mg/l	415.1	5
Dissolved Metals:			
Antimony	mg/l	6010	<0.1
Arsenic	mg/l	6010	<0.1
Beryllium	mg/l	6010	<0.005
Cadmium	mg/l	6010	<0.01
Chromium	mg/l	6010	<0.1
Copper	mg/l	6010	<0.01
Lead	mg/l	6010	<0.1
Mercury	mg/l	7470	<0.0005
Nickel	mg/l	6010	<0.1
Selenium	mg/l	7740	<0.1
Silver	mg/l	6010	<0.01
Thallium	mg/l	7841	<0.001
Zinc	mg/l	6010	0.03

General Data Table

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1659
Receipt Date: 8/23/91
Verbal Report Date: NR
Report Date: 9/27/91
Page 2 of 3

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected August 22, 1991; Reissued October 3, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 08-0776 (South Pond)*
Alkalinity	mg/l $CaCO_3$	310.2	58
Ammonia	mg/l NH_3-N	350.1	0.1
Chloride	mg/l	325.2	5.3
Total Cyanide	mg/l	335.3	<0.01
Chemical Oxygen Demand	mg/l	410.1	26
Nitrate	mg/l NO_3-N	353.2	<0.1
Oil and Grease	mg/l	413.2	<1
Phenolics	mg/l	420.2	<0.01
pH	pH units	150.1	7.63
Sulfate	mg/l	375.4	48
Specific Conductance @ 25°C	µmhos/cm	120.1	270
Total Dissolved Solids @ 180°C	mg/l	160.1	186
Total Organic Carbon	mg/l	415.1	9
Dissolved Metals:			
Antimony	mg/l	6010	<0.1
Arsenic	mg/l	6010	<0.1
Beryllium	mg/l	6010	<0.005
Cadmium	mg/l	6010	<0.01
Chromium	mg/l	6010	<0.1
Copper	mg/l	6010	<0.01
Lead	mg/l	6010	<0.1
Mercury	mg/l	7470	<0.0005
Nickel	mg/l	6010	<0.1
Selenium	mg/l	7740	<0.1
Silver	mg/l	6010	<0.01
Thallium	mg/l	7841	<0.001
Zinc	mg/l	6010	0.02

General Data Table

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1659
Receipt Date: 8/23/91
Verbal Report Date: NR
Report Date: 9/27/91
Page 3 of 3

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected August 22, 1991; Reissued October 3, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 08-0777 (North Pond)
Alkalinity	mg/l $CaCO_3$	310.2	72
Ammonia	mg/l NH_3-N	350.1	<0.1
Chloride	mg/l	325.2	20
Total Cyanide	mg/l	335.3	<0.01
Chemical Oxygen Demand	mg/l	410.1	40
Nitrate	mg/l NO_3-N	353.2	<0.1
Oil and Grease	mg/l	413.2	<1
Phenolics	mg/l	420.2	<0.01
pH	pH units	150.1	7.94
Sulfate	mg/l	375.4	42
Specific Conductance @ 25°C	µmhos/cm	120.1	330
Total Dissolved Solids @ 180°C	mg/l	160.1	209
Total Organic Carbon	mg/l	415.1	7
Dissolved Metals:			
Antimony	mg/l	6010	<0.1
Arsenic	mg/l	6010	<0.1
Beryllium	mg/l	6010	<0.005
Cadmium	mg/l	6010	<0.01
Chromium	mg/l	6010	<0.1
Copper	mg/l	6010	<0.01
Lead	mg/l	6010	<0.1
Mercury	mg/l	7470	<0.0005
Nickel	mg/l	6010	<0.1
Selenium	mg/l	7740	<0.1
Silver	mg/l	6010	<0.01
Thallium	mg/l	7841	<0.001
Zinc	mg/l	6010	0.04

Approved: Dominic P. Mitsic

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1659
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected August 22, 1991
Reissued October 3, 1991 (* denotes changes made)

Parameter	Units	Sample Identification 08-0775 (NT-A)	08-0776 (South Pond)
Date Analyzed	-	8/28/91	8/28/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10

Volatile Organic Analyses
(Continued)

Parameter	Units	Sample Identification 08-0777 (North Pond)	08-0778 (Trip)
Date Analyzed	-	8/28/91	8/28/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1659
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless
Reissued October 3, 1991 (* denotes changes made)

Parameter	Units	Sample Identification Method Blank
Date Analyzed	-	8/28/91
Acrolein	µg/l	<250
Acrylonitrile	µg/l	<250
Benzene	µg/l	<5
Carbon Tetrachloride	µg/l	<5
Chlorobenzene	µg/l	<5
1,2-Dichloroethane	µg/l	<5
1,1,1-Trichloroethane	µg/l	<5
1,1-Dichloroethane	µg/l	<5
1,1,2-Trichloroethane	µg/l	<5
1,1,2,2-Tetrachloroethane	µg/l	<5
Chloroethane	µg/l	<10
2-Chloroethylvinyl Ether	µg/l	<10
Chloroform	µg/l	<5
1,1-Dichloroethene	µg/l	<5
Trans-1,2-Dichloroethene	µg/l	<5
1,2-Dichloropropane	µg/l	<5
1,3-Dichloropropene	µg/l	<5
Ethylbenzene	µg/l	<5
Methylene Chloride	µg/l	<5
Chloromethane	µg/l	<10
Bromomethane	µg/l	<10
Bromoform	µg/l	<5
Dichlorobromomethane	µg/l	<5
Chlorodibromomethane	µg/l	<5
Tetrachloroethene	µg/l	<5
Toluene	µg/l	<5
Trichloroethene	µg/l	<5
Vinyl Chloride	µg/l	<10

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

October 4, 1991
Reissued October 17, 1991 (* denotes changes made)

Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street, Suite G
Naperville, IL 60563-1288

Water Characterization: Waste Technology, Inc.
Project No. 91009-02; Fairless Pipe Mill - USX Fairless
Antech Ltd. Project No. 91-1785

Dear Mr. Kubala:

Enclosed are analytical results for the samples submitted by Waste Technology, Inc. The samples were received on September 11, 1991 and logged in for analysis on September 11, 1991.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications and were found to be acceptable. Results of these analyses can be furnished upon request. If you have any questions, please call me.

Sincerely,

Dominic J. Nestasie
Organic Chemistry Manager

DJN:aeb

Enclosures

General Data Table

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1785
Receipt Date: 9/11/91
Verbal Report Date: NR
Report Date: 10/4/91
Page 1 of 3

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected September 10, 1991; Reissued October 17, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 09-0188 (MW-1)	09-0189 (MW-2)
Alkalinity	mg/l $CaCO_3$	310.2	2	372
Ammonia	mg/l NH_3-N	350.1	0.3	<0.1
Chloride	mg/l	325.2	91	6.1
Total Cyanide	mg/l	335.3	<0.01	<0.01
Chemical Oxygen Demand	mg/l	410.1	24	17
Nitrate	mg/l NO_3-N	353.2	0.1	<0.1
Oil and Grease	mg/l	413.2	<1	<1
Phenolics	mg/l	420.2	<0.01	<0.01
pH	pH units	150.1	6.31	7.24
Sulfate	mg/l	375.4	73	31
Specific Conductance @ 25°C	µmhos/cm	120.1	551	789
Total Dissolved Solids @ 180°C	mg/l	160.1	439	388
Total Organic Carbon	mg/l	415.1	5	5
Dissolved Metals:				
Antimony	mg/l	6010	<0.1	<0.1
Arsenic	mg/l	6010	<0.1	<0.1
Beryllium	mg/l	6010	<0.005	0.007
Cadmium	mg/l	6010	0.02	0.04
Chromium	mg/l	6010	<0.1	0.2
Copper	mg/l	6010	0.08	0.15
Lead	mg/l	6010	<0.1	<0.1
Mercury	mg/l	7470	<0.0005	0.0016
Nickel	mg/l	6010	0.1	0.2
Selenium	mg/l	6010	<0.1	<0.1
Silver	mg/l	6010	<0.01	<0.01
Thallium	mg/l	7841	<0.001	<0.001
Zinc	mg/l	6010	1.3	0.52

General Data Table

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1785
Receipt Date: 9/11/91
Verbal Report Date: NR
Report Date: 10/4/91
Page 2 of 3

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected September 10, 1991; Reissued October 17, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 09-0190 (MW-3)	09-0191 (MW-4)
Alkalinity	mg/l $CaCO_3$	310.2	220	144
Ammonia	mg/l NH_3-N	350.1	0.4	8.8
Chloride	mg/l	325.2	22	5.4
Total Cyanide	mg/l	335.3	<0.01	0.01
Chemical Oxygen Demand	mg/l	410.1	21	26
Nitrate	mg/l NO_3-N	353.2	<0.1	1.1
Oil and Grease	mg/l	413.2	<1	<1
Phenolics	mg/l	420.2	<0.01	0.01
pH	pH units	150.1	7.51	11.27
Sulfate	mg/l	375.4	110	26
Specific Conductance @ 25°C	µmhos/cm	120.1	712	660
Total Dissolved Solids @ 180°C	mg/l	160.1	411	227
Total Organic Carbons	mg/l	415.1	12	9
Dissolved Metals:				
Antimony	mg/l	6010	<0.1	<0.1
Arsenic	mg/l	6010	<0.1	<0.1
Beryllium	mg/l	6010	0.011	0.005
Cadmium	mg/l	6010	0.06	0.02
Chromium	mg/l	6010	0.2	0.2
Copper	mg/l	6010	0.41	0.12
Lead	mg/l	6010	0.6	<0.1
Mercury	mg/l	7470	<0.0005	<0.0005
Nickel	mg/l	6010	0.4	0.1
Selenium	mg/l	6010	<0.1	<0.1
Silver	mg/l	6010	<0.01	<0.01
Thallium	mg/l	7841	0.001	<0.001
Zinc	mg/l	6010	1.8	0.39

General Data Table

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1785
Receipt Date: 9/11/91
Verbal Report Date: NR
Report Date: 10/4/91

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected September 10, 1991; Reissued October 17, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 09-0192 (MW-5)	09-0193 (MW-6)
Alkalinity	mg/l $CaCO_3$	310.2	150	162
Ammonia	mg/l NH_3-N	350.1	<0.1	1.2
Chloride	mg/l	325.2	12	14
Total Cyanide	mg/l	335.3	<0.01	<0.01
Chemical Oxygen Demand	mg/l	410.1	38	16
Nitrate	mg/l NO_3-N	353.2	<0.1	0.1
Oil and Grease	mg/l	413.2	1	<1
Phenolics	mg/l	420.2	0.01	<0.01
pH	pH units	150.1	6.75	6.67
Sulfate	mg/l	375.4	60	54
Specific Conductance @ 25°C	µmhos/cm	120.1	508	521
Total Dissolved Solids @ 180°C	mg/l	160.1	300	280
Total Organic Carbons	mg/l	415.1	12	5
Dissolved Metals:				
Antimony	mg/l	6010	<0.1	<0.1
Arsenic	mg/l	6010	<0.1	<0.1
Beryllium	mg/l	6010	<0.005	0.005
Cadmium	mg/l	6010	<0.01	0.03
Chromium	mg/l	6010	<0.1	<0.1
Copper	mg/l	6010	0.05	0.10
Lead	mg/l	6010	<0.1	0.1
Mercury	mg/l	7470	<0.0005	<0.0005
Nickel	mg/l	6010	0.1	0.3
Selenium	mg/l	6010	<0.1	<0.1
Silver	mg/l	6010	<0.01	<0.01
Thallium	mg/l	7841	<0.001	<0.001
Zinc	mg/l	6010	0.15	0.32

Approved: Dominic J. Pestasi

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1785
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected September 10, 1991
Reissued October 17, 1991 (* denotes changes made)

Parameter	Units	Sample Identification 09-0188 (MW-1)	09-0189 (MW-2)
Date Analyzed	-	9/13/91	9/14/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10
Total Xylenes*	µg/l	<5	<5

Volatile Organic Analyses
(Continued)

Parameter	Units	Sample Identification 09-0190 (MW-3)	09-0191 (MW-4)
Date Analyzed	-	9/14/91	9/14/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10
Total Xylenes*	µg/l	<5	<5

Volatile Organic Analyses
(Continued)

Parameter	Units	Sample Identification 09-0192 (MW-5)[1]*	09-0193 (MW-6)
Date Analyzed	-	9/14/91	9/14/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	63	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	97	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10
Total Xylenes*	µg/l	130	<5

[1]Sample also contained higher boiling range hydrocarbons.*

Volatile Organic Analyses
(Continued)

Parameter	Units	Sample Identification 09-0194 (Trip Blank)
Date Analyzed	-	9/14/91
Acrolein	µg/l	<250
Acrylonitrile	µg/l	<250
Benzene	µg/l	<5
Carbon Tetrachloride	µg/l	<5
Chlorobenzene	µg/l	<5
1,2-Dichloroethane	µg/l	<5
1,1,1-Trichloroethane	µg/l	<5
1,1-Dichloroethane	µg/l	<5
1,1,2-Trichloroethane	µg/l	<5
1,1,2,2-Tetrachloroethane	µg/l	<5
Chloroethane	µg/l	<10
2-Chloroethylvinyl Ether	µg/l	<10
Chloroform	µg/l	<5
1,1-Dichloroethene	µg/l	<5
Trans-1,2-Dichloroethene	µg/l	<5
1,2-Dichloropropane	µg/l	<5
1,3-Dichloropropene	µg/l	<5
Ethylbenzene	µg/l	<5
Methylene Chloride	µg/l	<5
Chloromethane	µg/l	<10
Bromomethane	µg/l	<10
Bromoform	µg/l	<5
Dichlorobromomethane	µg/l	<5
Chlorodibromomethane	µg/l	<5
Tetrachloroethene	µg/l	<5
Toluene	µg/l	<5
Trichloroethene	µg/l	<5
Vinyl Chloride	µg/l	<10
Total Xylenes*	µg/l	<5

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1785
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless
Reissued October 17, 1991 (* denotes changes made)

Parameter	Units	Sample Identification Method Blank
Date Analyzed	-	9/13/91
Acrolein	µg/l	<250
Acrylonitrile	µg/l	<250
Benzene	µg/l	<5
Carbon Tetrachloride	µg/l	<5
Chlorobenzene	µg/l	<5
1,2-Dichloroethane	µg/l	<5
1,1,1-Trichloroethane	µg/l	<5
1,1-Dichloroethane	µg/l	<5
1,1,2-Trichloroethane	µg/l	<5
1,1,2,2-Tetrachloroethane	µg/l	<5
Chloroethane	µg/l	<10
2-Chloroethylvinyl Ether	µg/l	<10
Chloroform	µg/l	<5
1,1-Dichloroethene	µg/l	<5
Trans-1,2-Dichloroethene	µg/l	<5
1,2-Dichloropropane	µg/l	<5
1,3-Dichloropropene	µg/l	<5
Ethylbenzene	µg/l	<5
Methylene Chloride	µg/l	34
Chloromethane	µg/l	<10
Bromomethane	µg/l	<10
Bromoform	µg/l	<5
Dichlorobromomethane	µg/l	<5
Chlorodibromomethane	µg/l	<5
Tetrachloroethene	µg/l	<5
Toluene	µg/l	<5
Trichloroethene	µg/l	<5
Vinyl Chloride	µg/l	<10
Total Xylenes*	µg/l	<5

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

October 4, 1991
Reissued October 17, 1991 (* denotes changes made)

Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street, Suite G
Naperville, IL 60563-1288

Water Characterization; Waste Technology, Inc.
Project No. 91009-02; Fairless Pipe Mill - USX Fairless
Antech Ltd. Project No. 91-1795

Dear Mr. Kubala:

Enclosed are analytical results for the samples submitted by Waste Technology, Inc. The samples were received on September 12, 1991 and logged in for analysis on September 12, 1991.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications and were found to be acceptable. Results of these analyses can be furnished upon request. If you have any questions, please call me.

Sincerely,

Dominic J. Nestasie
Organic Chemistry Manager

DJN:aeb

Enclosures

General Data Table

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1795
Receipt Date: 9/12/91
Verbal Report Date: NR
Report Date: 10/4/91
Page 1 of 1

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected September 11, 1991; Reissued October 17, 1991
(* denotes changes made)

Parameter	Units	EPA Analytical Method	Sample Identification 09-0250 (MW-7)	09-0251 (MW-8)	09-0252 (MW-9)
Alkalinity	mg/l $CaCO_3$	310.2	14	1,090	217
Ammonia	mg/l NH_3-N	350.1	<0.1	2.4	5.6
Chloride	mg/l	325.2	8.4	9.9	41
Total Cyanide	mg/l	335.3	<0.01	<0.01	<0.01
Chemical Oxygen Demand	mg/l	410.1	<5	22	10
Nitrate	mg/l NO_3-N	353.2	2.1	0.9	<0.1
Oil and Grease	mg/l	413.2	<1	<1	<1
Phenolics	mg/l	420.2	0.02	0.03	0.09
pH	pH units	150.1	6.33	12.15	6.96
Sulfate	mg/l	375.4	20	73	13
Specific Conductance @ 25°C	µmhos/cm	120.1	116	4,220	625
Total Dissolved Solids @ 180°C	mg/l	160.1	94	1,000	310
Total Organic Carbon	mg/l	415.1	2	7	4
Dissolved Metals:					
Antimony	mg/l	6010	<0.1	<0.1	<0.1
Arsenic	mg/l	6010	<0.1	<0.1	<0.1
Beryllium	mg/l	6010	<0.005	0.011	<0.005
Cadmium	mg/l	6010	<0.01	0.02	<0.01
Chromium	mg/l	6010	<0.1	0.4	<0.1
Copper	mg/l	6010	0.03	0.09	0.04
Lead	mg/l	6010	<0.1	0.3	<0.1
Mercury	mg/l	7470	<0.0005	<0.0005	<0.0005
Nickel	mg/l	6010	<0.1	<0.1	<0.1
Selenium	mg/l	6010	<0.1	<0.1	<0.1
Silver	mg/l	6010	<0.01	<0.01	<0.01
Thallium	mg/l	7841	<0.001	<0.001	<0.001
Zinc	mg/l	6010	0.07	0.82	0.11

Approved: Dominic F. Martucci

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1795
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected September 11, 1991
Reissued October 17, 1991 (* denotes changes made)

Parameter	Units	Sample Identification 09-0250 (MW-7)	09-0251 (MW-8)	09-0252 (MW-9)
Date Analyzed	-	9/13/91	9/13/91	9/13/91
Acrolein	µg/l	<250	<250	<250
Acrylonitrile	µg/l	<250	<250	<250
Benzene	µg/l	<5	<5	<5
Carbon Tetrachloride	µg/l	<5	<5	<5
Chlorobenzene	µg/l	<5	<5	<5
1,2-Dichloroethane	µg/l	<5	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5	<5
1,1-Dichloroethane	µg/l	<5	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5	<5
Chloroethane	µg/l	<10	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10	<10
Chloroform	µg/l	<5	<5	<5
1,1-Dichloroethene	µg/l	<5	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5	<5
1,2-Dichloropropane	µg/l	<5	<5	<5
1,3-Dichloropropene	µg/l	<5	<5	<5
Ethylbenzene	µg/l	<5	<5	<5
Methylene Chloride	µg/l	<5	<5	<5
Chloromethane	µg/l	<10	<10	<10
Bromomethane	µg/l	<10	<10	<10
Bromoform	µg/l	<5	<5	<5
Dichlorobromomethane	µg/l	<5	<5	<5
Chlorodibromomethane	µg/l	<5	<5	<5
Tetrachloroethene	µg/l	<5	<5	<5
Toluene	µg/l	<5	<5	<5
Trichloroethene	µg/l	<5	<5	<5
Vinyl Chloride	µg/l	<10	<10	<10
Total Xylenes*	µg/l	<5	<5	<5

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1795
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless
Reissued October 17, 1991 (* denotes changes made)

Parameter	Units	Sample Identification Method Blank
Date Analyzed	-	9/13/91
Acrolein	µg/l	<250
Acrylonitrile	µg/l	<250
Benzene	µg/l	<5
Carbon Tetrachloride	µg/l	<5
Chlorobenzene	µg/l	<5
1,2-Dichloroethane	µg/l	<5
1,1,1-Trichloroethane	µg/l	<5
1,1-Dichloroethane	µg/l	<5
1,1,2-Trichloroethane	µg/l	<5
1,1,2,2-Tetrachloroethane	µg/l	<5
Chloroethane	µg/l	<10
2-Chloroethylvinyl Ether	µg/l	<10
Chloroform	µg/l	<5
1,1-Dichloroethene	µg/l	<5
Trans-1,2-Dichloroethene	µg/l	<5
1,2-Dichloropropane	µg/l	<5
1,3-Dichloropropene	µg/l	<5
Ethylbenzene	µg/l	<5
Methylene Chloride	µg/l	34
Chloromethane	µg/l	<10
Bromomethane	µg/l	<10
Bromoform	µg/l	<5
Dichlorobromomethane	µg/l	<5
Chlorodibromomethane	µg/l	<5
Tetrachloroethene	µg/l	<5
Toluene	µg/l	<5
Trichloroethene	µg/l	<5
Vinyl Chloride	µg/l	<10
Total Xylenes*	µg/l	<5

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

October 4, 1991

Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street, Suite G
Naperville, IL 60563-1288

Wastewater Characterization; Waste Technology, Inc.
Project No. 91009-02; Fairless Pipe Mill - USX Fairless
Antech Ltd. Project No. 91-1796

Dear Mr. Kubala:

Enclosed is the analytical result for the sample submitted by Waste Technology, Inc. The sample was received on September 12, 1991 and logged in for analysis on September 12, 1991.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications and were found to be acceptable. Results of these analyses can be furnished upon request. If you have any questions, please call me.

Sincerely,

Dominic J. Nestasie
Organic Chemistry Manager

DJN:aeb

Enclosures

General Data Table

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1796
Receipt Date: 9/12/91
Verbal Report Date: 10/4/91
Report Date: 10/4/91
Page 1 of 1

Reference: Wastewater Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected September 11, 1991

Parameter	Units	EPA Analytical Method	Sample Identification 09-0253 (Bunker C. Dike Liquid)
Polychlorinated Biphenyls	µg/l	8080	<1

Approved: Dominic F. Perkins

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

October 15, 1991

Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street, Suite G
Naperville, IL 60563-1288

Water Characterization; Waste Technology, Inc.
Project No. 91009-02; Fairless Pipe Mill - USX Fairless
Antech Ltd. Project No. 91-1669

Dear Mr. Kubala:

Enclosed are analytical results for the samples submitted by Waste Technology, Inc. The samples were received on August 26, 1991 and logged in for analysis on August 26, 1991.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications and were found to be acceptable. Results of these analyses can be furnished upon request. If you have any questions, please call me.

Sincerely,

Dominic J. Nestasie
Organic Chemistry Manager

DJN:aeb

Enclosures

Antech Ltd.
One Triangle Drive
Export
Pennsylvania 15632
412/733-1161

General Data Table

Client: Mr. Andrew O. Kubala
Waste Technology, Inc.
1809 North Mill Street
Suite G
Naperville, IL 60563-1288

Antech Project No.: 91-1669
Receipt Date: 8/26/91
Verbal Report Date: NR
Report Date: 10/15/91
Page 1 of 1

Reference: Water Characterization; Project No. 91009-02; Fairless Pipe Mill - USX Fairless; Collected August 23, 1991

Parameter	Units	EPA Analytical Method	Sample Identification 08-0845 (Bunker C Dike Liquids)	08-0846 (East Scale Pit)	08-0847 (West Scale Pit)
pH	pH units	150.1	5.77	7.29	7.16
Total Metals:					
Arsenic	mg/l	6010	<0.1	<0.1	<0.1
Barium	mg/l	6010	<0.01	0.03	0.06
Cadmium	mg/l	6010	<0.01	<0.01	<0.01
Chromium	mg/l	6010	<0.1	<0.1	<0.1
Lead	mg/l	6010	<0.1	<0.1	<0.1
Mercury	mg/l	7470	<0.0005	<0.0005	<0.0005
Selenium	mg/l	6010	<0.1	<0.1	<0.1
Silver	mg/l	6010	<0.01	<0.01	<0.01

Approved: Dominic J. Fiscaro

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected August 23, 1991

Parameter	Units	Sample Identification 09-0845 (Bunker C Dike Liquids)	09-0846 (East Scale Pit)
Date Analyzed	-	9/28/91	9/29/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	<5
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10

Volatile Organic Analyses
(Continued)

Parameter	Units	Sample Identification 08-0847 (West Scale Pit)	08-0848 (Trip Blank)
Date Analyzed	-	9/29/91	9/29/91
Acrolein	µg/l	<250	<250
Acrylonitrile	µg/l	<250	<250
Benzene	µg/l	<5	<5
Carbon Tetrachloride	µg/l	<5	<5
Chlorobenzene	µg/l	<5	<5
1,2-Dichloroethane	µg/l	<5	<5
1,1,1-Trichloroethane	µg/l	<5	<5
1,1-Dichloroethane	µg/l	<5	<5
1,1,2-Trichloroethane	µg/l	<5	<5
1,1,2,2-Tetrachloroethane	µg/l	<5	<5
Chloroethane	µg/l	<10	<10
2-Chloroethylvinyl Ether	µg/l	<10	<10
Chloroform	µg/l	<5	<5
1,1-Dichloroethene	µg/l	<5	<5
Trans-1,2-Dichloroethene	µg/l	<5	<5
1,2-Dichloropropane	µg/l	<5	<5
1,3-Dichloropropene	µg/l	<5	<5
Ethylbenzene	µg/l	<5	<5
Methylene Chloride	µg/l	<5	10
Chloromethane	µg/l	<10	<10
Bromomethane	µg/l	<10	<10
Bromoform	µg/l	<5	<5
Dichlorobromomethane	µg/l	<5	<5
Chlorodibromomethane	µg/l	<5	<5
Tetrachloroethene	µg/l	<5	<5
Toluene	µg/l	<5	<5
Trichloroethene	µg/l	<5	<5
Vinyl Chloride	µg/l	<10	<10

Volatile Organic Analyses
EPA Method 624
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless

Parameter	Units	Sample Identification Method Blank
Date Analyzed	-	9/28/91
Acrolein	µg/l	<250
Acrylonitrile	µg/l	<250
Benzene	µg/l	<5
Carbon Tetrachloride	µg/l	<5
Chlorobenzene	µg/l	<5
1,2-Dichloroethane	µg/l	<5
1,1,1-Trichloroethane	µg/l	<5
1,1-Dichloroethane	µg/l	<5
1,1,2-Trichloroethane	µg/l	<5
1,1,2,2-Tetrachloroethane	µg/l	<5
Chloroethane	µg/l	<10
2-Chloroethylvinyl Ether	µg/l	<10
Chloroform	µg/l	<5
1,1-Dichloroethene	µg/l	<5
Trans-1,2-Dichloroethene	µg/l	<5
1,2-Dichloropropane	µg/l	<5
1,3-Dichloropropene	µg/l	<5
Ethylbenzene	µg/l	<5
Methylene Chloride	µg/l	34
Chloromethane	µg/l	<10
Bromomethane	µg/l	<10
Bromoform	µg/l	<5
Dichlorobromomethane	µg/l	<5
Chlorodibromomethane	µg/l	<5
Tetrachloroethene	µg/l	<5
Toluene	µg/l	<5
Trichloroethene	µg/l	<5
Vinyl Chloride	µg/l	<10

Base/Neutral Extractable Analyses
EPA Method 625
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected August 23, 1991

Parameter	Units	Sample Identification 08-0846 (East Scale Pit)	08-0847 (West Scale Pit)
Date of Extraction	-	8/27/91	8/27/91
Date of Analysis	-	10/8/91	10/8/91
Acenaphthene	µg/l	<10	<10
Benzidine	µg/l	<50	<50
1,2,4-Trichlorobenzene	µg/l	<10	<10
Hexachlorobenzene	µg/l	<10	<10
Hexachloroethane	µg/l	<10	<10
Bis(2-Chloroethoxy) methane	µg/l	<10	<10
2-Chloronaphthalene	µg/l	<10	<10
1,2-Dichlorobenzene	µg/l	<10	<10
1,3-Dichlorobenzene	µg/l	<10	<10
1,4-Dichlorobenzene	µg/l	<10	<10
3,3-Dichlorobenzidine	µg/l	<10	<10
2,4-Dinitrotoluene	µg/l	<10	<10
2,6-Dinitrotoluene	µg/l	<10	<10
Fluoranthene	µg/l	<10	<10
4-Chlorophenyl Phenyl Ether	µg/l	<10	<10
4-Bromophenyl Phenyl Ether	µg/l	<10	<10
Bis(2-Chloroisopropyl)ether	µg/l	<10	<10
Bis(2-Chloroethyl)ether	µg/l	<10	<10
Hexachlorobutadiene	µg/l	<10	<10
Hexachlorocyclopentadiene	µg/l	<10	<10
Isophorone	µg/l	<10	<10
Naphthalene	µg/l	<10	<10
Nitrobenzene	µg/l	<10	<10
N-Nitrosodimethylamine	µg/l	<10	<10
N-Nitrosodiphenylamine	µg/l	<10	<10
N-Nitrosodi-N-Propylamine	µg/l	<10	<10
Bis(2-Ethylhexyl)phthalate	µg/l	<10	<10
Butyl Benzyl Phthalate	µg/l	<10	<10
Di-n-Butyl Phthalate	µg/l	39	25
Di-n-Octyl Phthalate	µg/l	<10	<10
Diethyl Phthalate	µg/l	<10	<10
Dimethyl Phthalate	µg/l	<10	<10
Benzo(a)Anthracene	µg/l	<10	<10

Base/Neutral Extractable Analyses
(Continued)

Parameter	Units	Sample Identification 08-0846 (East Scale Pit)	08-0847 (West Scale Pit)
Benzo(a)Pyrene	μg/l	<10	<10
Benzo(b)Fluoranthene	μg/l	<10	<10
Benzo(k)Fluoranthene	μg/l	<10	<10
Chrysene	μg/l	<10	<10
Acenaphthylene	μg/l	<10	<10
Anthracene	μg/l	<10	<10
Benzo(g,h,i)Perylene	μg/l	<50	<50
Fluorene	μg/l	<10	<10
Phenanthrene	μg/l	<10	<10
Dibenzo(a,h)Anthracene	μg/l	<50	<50
Indeno(1,2,3-cd)Pyrene	μg/l	<50	<50
Pyrene	μg/l	<10	<10

Acid Extractable Analyses
EPA Method 625
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless; Collected August 23, 1991

Parameter	Units	Sample Identification 08-0846 (East Scale Pit)	08-0847 (West Scale Pit)
Date of Extraction	-	8/27/91	8/27/91
Date of Analysis	-	10/8/91	10/8/91
2-Chlorophenol	µg/l	<10	<10
2,4-Dichlorophenol	µg/l	<10	<10
2,4-Dimethylphenol	µg/l	<10	<10
4,6-Dinitro-o-cresol	µg/l	<50	<50
2,4-Dinitrophenol	µg/l	<10	<10
2-Nitrophenol	µg/l	<50	<50
4-Nitrophenol	µg/l	<50	<50
P-Chloro-m-cresol	µg/l	<10	<10
Pentachlorophenol	µg/l	<50	<50
Phenol	µg/l	<10	<10
2,4,6-Trichlorophenol	µg/l	<10	<10

Base/Neutral Extractable Analyses
EPA Method 625
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless

Parameter	Units	Sample Identification Method Blank
Date of Extraction	-	8/27/91
Date of Analysis	-	10/8/91
Acenaphthene	µg/l	<10
Benzidine	µg/l	<50
1,2,4-Trichlorobenzene	µg/l	<10
Hexachlorobenzene	µg/l	<10
Hexachloroethane	µg/l	<10
Bis(2-Chloroethoxy) methane	µg/l	<10
2-Chloronaphthalene	µg/l	<10
1,2-Dichlorobenzene	µg/l	<10
1,3-Dichlorobenzene	µg/l	<10
1,4-Dichlorobenzene	µg/l	<10
3,3-Dichlorobenzidine	µg/l	<10
2,4-Dinitrotoluene	µg/l	<10
2,6-Dinitrotoluene	µg/l	<10
Fluoranthene	µg/l	<10
4-Chlorophenyl Phenyl Ether	µg/l	<10
4-Bromophenyl Phenyl Ether	µg/l	<10
Bis(2-Chloroisopropyl)ether	µg/l	<10
Bis(2-Chloroethyl)ether	µg/l	<10
Hexachlorobutadiene	µg/l	<10
Hexachlorocyclopentadiene	µg/l	<10
Isophorone	µg/l	<10
Naphthalene	µg/l	<10
Nitrobenzene	µg/l	<10
N-Nitrosodimethylamine	µg/l	<10
N-Nitrosodiphenylamine	µg/l	<10
N-Nitrosodi-N-Propylamine	µg/l	<10
Bis(2-Ethylhexyl)phthalate	µg/l	<10
Butyl Benzyl Phthalate	µg/l	<10
Di-n-Butyl Phthalate	µg/l	16
Di-n-Octyl Phthalate	µg/l	<10
Diethyl Phthalate	µg/l	<10
Dimethyl Phthalate	µg/l	<10
Benzo(a)Anthracene	µg/l	<10

Base/Neutral Extractable Analyses
(Continued)

Parameter	Units	Sample Identification Method Blank
Benzo(a)Pyrene	μg/l	<10
Benzo(b)Fluoranthene	μg/l	<10
Benzo(k)Fluoranthene	μg/l	<10
Chrysene	μg/l	<10
Acenaphthylene	μg/l	<10
Anthracene	μg/l	<10
Benzo(g,h,i)Perylene	μg/l	<50
Fluorene	μg/l	<10
Phenanthrene	μg/l	<10
Dibenzo(a,h)Anthracene	μg/l	<50
Indeno(1,2,3-cd)Pyrene	μg/l	<50
Pyrene	μg/l	<10

Acid Extractable Analyses
EPA Method 625
Waste Technology, Inc.
Antech Ltd. Project No. 91-1669
Water Characterization; Project No. 91009-02
Fairless Pipe Mill - USX Fairless

Parameter	Units	Sample Identification Method Blank
Date of Extraction	-	8/27/91
Date of Analysis	-	10/8/91
2-Chlorophenol	µg/l	<10
2,4-Dichlorophenol	µg/l	<10
2,4-Dimethylphenol	µg/l	<10
4,6-Dinitro-o-cresol	µg/l	<50
2,4-Dinitrophenol	µg/l	<10
2-Nitrophenol	µg/l	<50
4-Nitrophenol	µg/l	<50
P-Chloro-m-cresol	µg/l	<10
Pentachlorophenol	µg/l	<50
Phenol	µg/l	<10
2,4,6-Trichlorophenol	µg/l	<10

BCM

USX DATA BASE

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ER-1

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Volatile Organics							
1,1,1-Trichloroethane	NT	NT	NT	NT	13 ug/l	14 ug/l	18 ug/l
1,1,2,2-Tetrachloroethane	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
1,1,2-Trichloroethane	7.4 ug/l	8.7 ug/l	NT	NT	8.8 ug/l	11 ug/l	9.9 ug/l
1,1-Dichloroethane	420 ug/l	550 ug/l	NT	NT	520 ug/l	450 ug/l	320 ug/l
1,1-Dichloroethene	< 0.5 ug/l	< 0.3 ug/l	NT	NT	< 0.1 ug/l	< 0.1 ug/l	1.6 ug/l
1,2-Dichloroethane	< 0.001 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.001 ug/l	< 0.001 ug/l
1,2-Dichloropropane	< 0.18 ug/l	< 0.05 ug/l	NT	NT	< 0.08 ug/l	< 0.19 ug/l	< 0.2 ug/l
2-Chloroethylvinylether	< 0.1 ug/l	< 0.1 ug/l	NT	NT	< 0.1 ug/l	< 0.1 ug/l	< 0.1 ug/l
Acrolein	< 0.001 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.001 ug/l	< 0.003 ug/l
Acrylonitrile	46 ug/l	NT	NT	NT	44 ug/l	NT	NT
Benzene	< 0.1 ug/l	< 0.1 ug/l	NT	NT	< 0.1 ug/l	< 0.1 ug/l	NT
Bromodichloromethane	< 1 ug/l	< 1 ug/l	NT	NT	< 1 ug/l	< 1 ug/l	NT
Bromoform	< 1 ug/l	< 1 ug/l	NT	NT	< 1 ug/l	< 1 ug/l	NT
Bromomethane(MethylBromide)	< 1 ug/l	< 1 ug/l	NT	NT	< 1 ug/l	< 1 ug/l	NT
Chloroform	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	28 ug/l	< 5 ug/l
Chloromethane (Methyl Chlorid	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
cis-1,3-Dichloropropene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Dibromochloromethane	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Ethylbenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
trans-1,2-Dichloroethene	NT	NT	NT	NT	NT	NT	17 ug/l

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Volatile Organics							
Trans-1,3-Dichloropropene	NT	NT	NT	NT	NT	NT	< 0.0005 ug/l
Vinyl Chloride	NT	NT	NT	NT	NT	NT	240 ug/l
Acid Extractable Organics							
2,4,6-Trichlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dichlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dimethylphenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dinitrophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Chlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Nitrophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
4,6-Dinitro-o-Cresol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
4-Chloro-3-methylphenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
4-Nitrophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Pentachlorophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Phenol	< 10 mg/l	< 10 mg/l	NT	NT	21 mg/l	57 mg/l	23 mg/l
Base/Neutral Organics							
1,2,4-Trichlorobenzene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
1,2-Dichlorobenzene	185 ug/l	NT	NT	NT	152 ug/l	NT	NT
1,3-Dichlorobenzene	< 0.002 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.001 ug/l	< 0.001 ug/l
1,4-Dichlorobenzene	150 ug/l	NT	NT	NT	190 ug/l	NT	NT
2,4-Dinitrotoluene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,6-Dinitrotoluene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Chloronaphthalene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
3,3'-Dichlorobenzidine	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
4-Bromophenyl-phenylether	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
4-Chlorophenyl-phenylether	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Acenaphthene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Base/Neutral Organics							
Acenaphthylene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Anthracene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Benzidine	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Benzo(a)anthracene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Benzo(a)Pyrene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Benzo(b)fluoranthene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Benzo(g,h,i)perylene	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Benzo(k)fluoranthene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
bis(2-Chloroethoxy)methane	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
bis(2-Chloroethyl)ether	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
bis(2-Chloroisopropyl)ether	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
bis(2-EthylHexyl)phthalate	< 10 ug/l	22 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Butylbenzylphthalate	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Chrysene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Di-n-butylphthalate	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Di-n-octylphthalate	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Dibenzo(a,h)anthracene	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Diethylphthalate	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Dimethylphthalate	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Fluoranthene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Fluorene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Hexachlorobenzene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Hexachlorobutadiene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Hexachlorocyclopentadiene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Hexachloroethane	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Indeno (1,2,3-cd) pyrene	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Isophorone	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
N-Nitroso-di-n-propylamine	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
N-Nitrosodimethylamine	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
N-Nitrosodiphenylamine (1)	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT

NT=Not Tested

Printed: 04/16/93

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Base/Neutral Organics							
Naphthalene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Nitrobenzene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Phenanthrene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Pyrene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
Pesticides, PCB's, and Herbicides							
2,4,5-TP	< 0.002 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.001 ug/l	< 0.012 ug/l
Endrin	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Lindane	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Methoxychlor	875 ug/l	1200 ug/l	NT	NT	1300 ug/l	1200 ug/l	700 ug/l
Toxaphene	NT	NT	NT	NT	NT	NT	< 0.023 ug/l
Metals							
Arsenic	< 0.001 mg/l	< 0.001 mg/l	NT	NT	< 0.001 mg/l	< 0.001 mg/l	< 0.001 mg/l
Barium	13 mg/l	13 mg/l	NT	NT	12 mg/l	12 mg/l	12 mg/l
Barium, Dissolved	< 0.001 mg/l	< 0.001 mg/l	NT	NT	< 0.001 mg/l	< 0.001 mg/l	< 0.001 mg/l
Cadmium	< 0 mg/l	< 0 mg/l	NT	NT	< 0 mg/l	< 0.1 mg/l	NT
Cadmium, Dissolved	< 0.1 mg/l	< 0.1 mg/l	NT	NT	< 0.1 mg/l	< 0.1 mg/l	NT
Calcium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Chromium	< 5 mg/l	< 5 mg/l	< 5 mg/l	12 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Chromium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Copper	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Iron	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Iron, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Lead	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Lead, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Magnesium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Manganese, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l

NT=Not Tested

Printed: 04/16/93

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Metals							
Mercury	1050 mg/l	1200 mg/l	NT	NT	1300 mg/l	1200 mg/l	750 mg/l
Mercury, Dissolved	1050 mg/l	1250 mg/l	600 mg/l	1400 mg/l	1250 mg/l	1150 mg/l	700 mg/l
Nickel	2 mg/l	3 mg/l	NT	NT	5 mg/l	6 mg/l	6 mg/l
Potassium, Dissolved	< 10 mg/l	< 10 mg/l	NT	NT	22 mg/l	50 mg/l	16 mg/l
Selenium	< 0.13 mg/l	< 0.22 mg/l	NT	NT	< 0.08 mg/l	< 0.08 mg/l	< 0.12 mg/l
Selenium, Dissolved	< 10 mg/l	< 10 mg/l	NT	NT	23 mg/l	54 mg/l	24 mg/l
Silver, Dissolved	21 mg/l	NT	NT	NT	22 mg/l	NT	NT
Sodium, Dissolved	8.41 mg/l	7.91 mg/l	9.16 mg/l	8.33 mg/l	8.48 mg/l	10.91 mg/l	9.35 mg/l
Zinc	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Inorganic Non-metals							
Chloride	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Nitrate as N	1 mg/l	3 mg/l	NT	NT	5 mg/l	5 mg/l	6 mg/l
Nitrogen, Ammonia	< 0.0005 mg/l	< 0.0005 mg/l	NT	NT	< 0.0005 mg/l	< 0.0005 mg/l	< 0.0005 mg/l
Sulfate as SO4	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l
Organics							
Chemical Oxygen Demand (COD)	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l	< 5 mg/l
Oil & Grease	2 mg/l	17 mg/l	NT	NT	5 mg/l	6 mg/l	4 mg/l
Total Organic Carbon (TOC)	< 10 mg/l	< 10 mg/l	< 10 mg/l	< 10 mg/l	NT	NT	NT
Total Organic Halides (TOX)	NT	NT	NT	NT	NT	NT	< 0.079 ug/l
Total Phenolics	< 1 mg/l	6 mg/l	NT	NT	5 mg/l	5 mg/l	7 mg/l
Solvents							
Carbon Tetrachloride	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Chlorobenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Methylene Chloride	950 ug/l	1200 ug/l	NT	NT	1300 ug/l	1200 ug/l	700 ug/l

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A	TB-1A
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000252	000253	000254	000255	000256	000257	000258
Cross ref Sample:							
Solvents							
Toluene	< 0.01 ug/l	< 0.01 ug/l	NT	NT	< 0.01 ug/l	< 0.03 ug/l	< 0.04 ug/l
Trichloroethene	NT	NT	NT	NT	NT	NT	< 0.001 ug/l
Trichlorofluoromethane	NT	NT	NT	NT	NT	NT	< 0.001 ug/l
Physical Properties							
Alkalinity - pH	< 0.07 mg/l	< 0.23 mg/l	NT	NT	2.2 mg/l	< 0.02 mg/l	< 0.01 mg/l
pH Laboratory	6.85 SU	5.8 SU	6.85 SU	6.65 SU	6.75 SU	6.85 SU	6.8 SU
Specific Conductance(umhos/cm	0 mhos/c	0 mhos/c	NT	NT	160 mhos/c	119 mhos/c	NT
Total Dissolved Solids (TDS)	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l	< 250 mg/l
Turbidity	< 5 NTU	< 5 NTU	< 5 NTU	< 5 NTU	< 5 NTU	< 5 NTU	< 5 NTU
Radioactivity Parameters							
Gross a-Radioactivity	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l
Gross B-Radioactivity	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l
Radium 226	< 10 pCi/l	< 10 pCi/l	NT	NT	21 pCi/l	43 pCi/l	21 pCi/l

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A
Sample ID:			
Date Sample Taken:	11/20/89	02/08/90	05/28/90
BCM Sample Number:	000259	000260	000261
Cross ref Sample:			
Volatile Organics			
1,1,1-Trichloroethane	15 ug/l	10 ug/l	10 ug/l
1,1,2-Trichloroethane	11 ug/l	11 ug/l	12 ug/l
1,1-Dichloroethane	300 ug/l	400 ug/l	420 ug/l
1,1-Dichloroethene	< 0.4 ug/l	< 0.6 ug/l	< 0.7 ug/l
1,2-Dichloroethane	< 0.001 ug/l	< 0.003 ug/l	< 0.001 ug/l
1,2-Dichloropropane	< 0.13 ug/l	< 0.07 ug/l	< 0.08 ug/l
2-Chloroethylvinylether	1.2 ug/l	< 0.1 ug/l	< 0.1 ug/l
Acrolein	< 0.001 ug/l	< 0.001 ug/l	< 0.001 ug/l
Chloroform	< 5 ug/l	< 5 ug/l	< 5 ug/l
Chloromethane (Methyl Chlorid	< 5 ug/l	< 5 ug/l	< 5 ug/l
cis-1,3-Dichloropropene	< 5 ug/l	< 5 ug/l	< 5 ug/l
Dibromochloromethane	< 5 ug/l	< 5 ug/l	< 5 ug/l
Ethylbenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l
Acid Extractable Organics			
Phenol	29 mg/l	< 10 mg/l	< 10 mg/l

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A
Sample ID:			
Date Sample Taken:	11/20/89	02/08/90	05/28/90
BCM Sample Number:	000259	000260	000261
Cross ref Sample:			
Base/Neutral Organics			
1,3-Dichlorobenzene	< 0.001 ug/l	< 0.001 ug/l	< 0.001 ug/l
Pesticides, PCB's, and Herbicides			
2,4,5-TP	< 0.003 ug/l	< 0.001 ug/l	< 0.001 ug/l
Endrin	< 5 ug/l	< 5 ug/l	< 5 ug/l
Lindane	< 5 ug/l	< 5 ug/l	< 5 ug/l
Methoxychlor	1000 ug/l	1000 ug/l	1200 ug/l
Metals			
Arsenic	< 0.001 mg/l	< 0.001 mg/l	< 0.001 mg/l
Barium	10 mg/l	12 mg/l	10 mg/l
Barium, Dissolved	< 0.001 mg/l	< 0.001 mg/l	< 0.001 mg/l
Calcium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Chromium	< 5 mg/l	< 5 mg/l	< 5 mg/l
Chromium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Copper	< 5 mg/l	< 5 mg/l	< 5 mg/l
Iron	< 5 mg/l	< 5 mg/l	< 5 mg/l
Iron, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Lead	< 5 mg/l	< 5 mg/l	< 5 mg/l
Lead, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Magnesium, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Manganese, Dissolved	< 5 mg/l	< 5 mg/l	< 5 mg/l
Mercury	1000 mg/l	1000 mg/l	1250 mg/l
Mercury, Dissolved	1000 mg/l	1100 mg/l	1200 mg/l
Nickel	5 mg/l	4 mg/l	4 mg/l
Potassium, Dissolved	25 mg/l	14 mg/l	< 10 mg/l
Selenium	< 0.13 mg/l	< 0.1 mg/l	< 0.11 mg/l
Selenium, Dissolved	20 mg/l	< 10 mg/l	< 10 mg/l

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A
Sample ID:			
Date Sample Taken:	11/20/89	02/08/90	05/28/90
BCM Sample Number:	000259	000260	000261
Cross ref Sample:			
Metals			
Sodium, Dissolved	9.41 mg/l	9.63 mg/l	9.48 mg/l
Zinc	< 5 mg/l	< 5 mg/l	< 5 mg/l
Inorganic Non-metals			
Chloride	< 5 mg/l	< 5 mg/l	< 5 mg/l
Nitrate as N	6 mg/l	4 mg/l	3 mg/l
Nitrogen, Ammonia	< 0.0005 mg/l	< 0.0005 mg/l	< 0.0005 mg/l
Sulfate as SO4	< 250 mg/l	< 250 mg/l	< 250 mg/l
Organics			
Chemical Oxygen Demand (COD)	< 5 mg/l	< 5 mg/l	< 5 mg/l
Oil & Grease	8 mg/l	4 mg/l	5 mg/l
Total Phenolics	5 mg/l	5 mg/l	3 mg/l
Solvents			
Carbon Tetrachloride	< 5 ug/l	< 5 ug/l	< 5 ug/l
Chlorobenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l
Methylene Chloride	1000 ug/l	1000 ug/l	1200 ug/l
Toluene	< 0.01 ug/l	< 0.02 ug/l	< 0.01 ug/l
Physical Properties			
Alkalinity - pH	< 0.07 mg/l	< 0.04 mg/l	< 0.01 mg/l
pH Laboratory	6.8 SU	6.95 SU	7.05 SU
Total Dissolved Solids (TDS)	< 250 mg/l	< 250 mg/l	< 250 mg/l
Turbidity	< 5 NTU	< 5 NTU	< 5 NTU

NT=Not Tested

TB-1A
Summary of Analytical Results

Location:	TB-1A	TB-1A	TB-1A
Sample ID:			
Date Sample Taken:	11/20/89	02/08/90	05/28/90
BCM Sample Number:	000259	000260	000261
Cross ref Sample:			

Radioactivity Parameters

Gross a-Radioactivity	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l
Gross B-Radioactivity	< 5 pCi/l	< 5 pCi/l	< 5 pCi/l
Radium 226	20 pCi/l	14 pCi/l	< 10 pCi/l

NT=Not Tested

Printed: 04/16/93

ER-1

TB-1B
Summary of Analytical Results

Location:	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000262	000263	000264	000265	000266	000267	000268
Cross ref Sample:							
Volatile Organics							
1,1,1-Trichloroethane	NT	NT	NT	NT	13 ug/l	14 ug/l	18 ug/l
1,1,2,2-Tetrachloroethane	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
1,1,2-Trichloroethane	7.1 ug/l	7.1 ug/l	NT	NT	7.2 ug/l	11 ug/l	10 ug/l
1,1-Dichloroethane	590 ug/l	610 ug/l	NT	NT	620 ug/l	500 ug/l	340 ug/l
1,2-Dichloroethane	< 0.001 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.001 ug/l	< 0.001 ug/l
1,2-Dichloropropane	< 0.1 ug/l	< 0.02 ug/l	NT	NT	< 0.05 ug/l	< 0.06 ug/l	< 0.06 ug/l
2-Chloroethylvinylether	< 0.1 ug/l	< 0.1 ug/l	NT	NT	< 0.1 ug/l	< 0.1 ug/l	< 0.1 ug/l
Acrolein	< 0.001 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.002 ug/l	< 0.001 ug/l
Acrylonitrile	62 ug/l	NT	NT	NT	52 ug/l	NT	NT
Benzene	< 0.1 ug/l	< 0.1 ug/l	NT	NT	< 0.1 ug/l	< 0.1 ug/l	NT
Bromoform	< 1 ug/l	< 1 ug/l	NT	NT	< 1 ug/l	< 1 ug/l	NT
Bromomethane(MethylBromide)	< 1 ug/l	< 1 ug/l	NT	NT	< 1 ug/l	< 1 ug/l	NT
Carbon Tetrachloride	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Chlorobenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Chloroform	10 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	10 ug/l	< 5 ug/l
Chloromethane (Methyl Chlorid	22 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
cis-1,3-Dichloropropene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Dibromochloromethane	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Ethylbenzene	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l	< 5 ug/l
Methylene Chloride	1350 ug/l	1300 ug/l	NT	NT	1500 ug/l	1300 ug/l	700 ug/l

NT=Not Tested

Printed: 04/16/93

TB-1B
Summary of Analytical Results

Location:	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B	TB-1B
Sample ID:							
Date Sample Taken:	09/12/88	11/20/88	12/01/88	12/31/88	02/24/89	05/28/89	08/16/89
BCM Sample Number:	000262	000263	000264	000265	000266	000267	000268
Cross ref Sample:							
Volatile Organics							
Toluene	< 0.01 ug/l	< 0.01 ug/l	NT	NT	< 0.01 ug/l	< 0.03 ug/l	< 0.06 ug/l
trans-1,2-Dichloroethene	NT	NT	NT	NT	NT	NT	4.6 ug/l
Trans-1,3-Dichloropropene	NT	NT	NT	NT	NT	NT	< 0.0005 ug/l
Trichlorofluoromethane	NT	NT	NT	NT	NT	NT	< 0.001 ug/l
Vinyl Chloride	NT	NT	NT	NT	NT	NT	7.5 ug/l
Acid Extractable Organics							
2,4,6-Trichlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dichlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dimethylphenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,4-Dinitrophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Chlorophenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Nitrophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
4,6-Dinitro-o-Cresol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
4-Chloro-3-methylphenol	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
4-Nitrophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Pentachlorophenol	< 50 ug/l	< 50 ug/l	< 50 ug/l	< 50 ug/l	NT	NT	NT
Phenol	13 mg/l	< 10 mg/l	NT	NT	25 mg/l	53 mg/l	< 10 mg/l
Base/Neutral Organics							
1,2,4-Trichlorobenzene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
1,2-Dichlorobenzene	133 ug/l	NT	NT	NT	152 ug/l	NT	NT
1,3-Dichlorobenzene	< 0.002 ug/l	< 0.001 ug/l	NT	NT	< 0.001 ug/l	< 0.003 ug/l	< 0.001 ug/l
1,4-Dichlorobenzene	210 ug/l	NT	NT	NT	210 ug/l	NT	NT
2,4-Dinitrotoluene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2,6-Dinitrotoluene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
2-Chloronaphthalene	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT
3,3'-Dichlorobenzidine	< 10 ug/l	< 10 ug/l	< 10 ug/l	< 10 ug/l	NT	NT	NT

NT=Not Tested