CDM Camp Dresser & McKee

consulting engineering construction operations

5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
Tel: 919 787-5620 Fax: 919 781-5730

December 23, 1997

JAN 1998
Received
Solid Waste
Section

Mr. Larry Rose
Solid Waste Section
Division of Waste Management
401 Oberlin Road
Suite 150
Raleigh, North Carolina 27605-1350

Subject: Baseline Sampling Report
Buncombe County Solid Waste Management Facility

Dear Mr. Rose:

Enclosed are two copies of the Baseline Sampling Report for the referenced facility. This report establishes the baseline concentrations for the Appendix I constituents.

If you have any questions or require further explanation, do not hesitate to call me at 787-5620.

Sincerely,

CAMP DRESSER & McKEE

Timothy D Grant

Timothy D. Grant, P.G.

NORTH CAROLINA LICENSED SEAL 1012 GEOLOGIST TIMOTHY DAVID GRANT

12-23-97

cc: Rick Allred, Buncombe County General Services Department

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Appendix D
Analytical Data - September 3,1997

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29254	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29254	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	7.1	71

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29254	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0128**	0.0100	MG/L	6010A	9/17/97
Barium	**0.653**	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0020**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0145**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0425**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0520**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.0518**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: JMJ

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1D	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29255	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1D	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29255	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	4
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.2	102
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-1D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29255	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: rgd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29256	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29256	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-2	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29256	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29257	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: NA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-2D
Client Project ID: CDM
Lab Sample ID: 29257
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	8.1	81

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-2D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29257	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0100**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-3
Client Project ID: CDM
Lab Sample ID: 29258
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29258	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	7.9	79

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-3	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29258	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0148**	0.0100	MG/L	6010A	9/17/97
Barium	**0.631**	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0013**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0114**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0465**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	**0.0675**	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0572**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.107**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-4
Client Project ID: CDM
Lab Sample ID: 29259
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-4	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29259	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.0	100
1,2-Dichloroethane-d4	10.0	10.5	105
Toluene-d8	10.0	8.7	87

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-4	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29259	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0013**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-4D
Client Project ID: CDM
Lab Sample ID: 29260
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: WML
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29260	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-4D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29260	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0119**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0010**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5
Client Project ID: CDM
Lab Sample ID: 29261
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29261	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-5	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29261	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0127**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0010**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0642**	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5D
Client Project ID: CDM
Lab Sample ID: 29262
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5D
Client Project ID: CDM
Lab Sample ID: 29262
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-5D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29262	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Dup. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29268	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Dup. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29268	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.3	93
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	Dup. #1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29268	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: CDM
Lab Sample ID: 29264
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: CDM
Lab Sample ID: 29264
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries

Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	8.2	82

Comments:
All results are corrected for dilution.

Reviewed by: Ma

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-6	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29264	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29265	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-7
Client Project ID: CDM
Lab Sample ID: 29265
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.0	90
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	6.3	63

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-7	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29265	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0174**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0038**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0441**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0235**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	**0.0530**	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0815**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.0594**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: cgd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29266	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: M

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29266	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.7	97
Toluene-d8	10.0	9.1	91

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-8	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29266	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0107**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-8D
Client Project ID: CDM
Lab Sample ID: 29267
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29267	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.5	95
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-8D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29267	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: aad

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29269	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29269	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	9.7	97
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	SW-1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29269	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-2	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29270	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-2	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29270	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.6	96
Toluene-d8	10.0	9.6	96

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	SW-2	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29270	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0114**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: ugd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29271	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29271	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	9.9	99
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: E.B. #1
Client Project ID: CDM
Lab Sample ID: 29263
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: WML
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: WL

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	E.B. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29263	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	E.B. #1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29263	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Client: CDM
Address: 5400 GLENWOOD AVE
Address: RALEIGH NC.
Quote #:

Project ID:
P.O. Number:
Contact: TIM GRANT
Phone: 919-787-5620

Date:
Turnaround:
Job Number:

Report To: TIM GRANT
CDM
RALEIGH, NC.
Invoice To: S.A.A.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3	Analyses: SW 846 8260	Analyses: App. #1 METALS	Comments: Please specify any special reporting requirements
mw-1	9/3/97	0900	GRND H2O	X	X	4	1	
mw-1D	9/3/97	10:55				4	1	
mw-2	1/3/97	11:55				4	1	
mw-2D	1/3/97	13:05				4	1	
mw-3	1/3/97	15:00				4	1	
mw-4	1/3/97	16:05				4	1	
mw-4D	9/3/97	17:05				4	1	
mw-5	1/4/97	09:25				4	1	
mw-5D	9/4/97	09:55				4	1	
E.B. #1	—	—				4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	9/5/97	12:00	[signature]	9/6/97	1040	ONICE		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# [illegible]

Page 2 of 2

Client: CDM
Address: 5400 GLENWOOD AVE
Address: RALEIGH, N.C.
Quote #:

Project ID:
P.O. Number:
Contact: TIM GRANT
Phone: 919-787-5620

Date:
Turnaround:
Job Number:

Report To: TIM GRANT
CDM
RALEIGH, N.C.
Invoice To: S.A.A.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3	Analyses: SW 846 8260	Analyses: APP. 1 METALS	Comments: Please specify any special reporting requirements
mw-6	9/4/97	11:15		X	X	4	1	
mw-7	9/4/97	12:20				4	1	
mw-8	9/4/97	16:50				4	1	
mw-8D	9/4/97	16:15				4	1	
Dup. #1	—	—				4	1	
Trip Blank	—	—				2		
SW-1	9/4/97	17:35				4	1	
SW-2	9/4/97	17:55				4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	9/5/97	12:00	[signature]	9/6/97	1040	ONICE		

ORIGINAL

Appendix B
Analytical Data - May 31,1997

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1	Analyzed By:	JMF
Client Project ID:	Buncombe County	Date Collected:	6/3/97
Lab Sample ID:	25575	Date Received:	6/6/97
Lab Project ID:	G175-10	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0141**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0275**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0456**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0773**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25575	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25575	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	7.6	76

Comments:
All results are corrected for dilution.

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1 D	Analyzed By:	JMF
Client Project ID:	Buncombe County	Date Collected:	6/3/97
Lab Sample ID:	25576	Date Received:	6/6/97
Lab Project ID:	G175-10	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0666**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: ggd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-1 D
Client Project ID: Buncombe County
Lab Sample ID: 25576
Lab Project ID: G175-10
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/3/97
Date Received: 6/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1 D	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25576	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.0	100
1,2-Dichloroethane-d4	10.0	10.2	102
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25557	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0132**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0566**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: rad

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25557	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25557	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.3	93

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25556	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25556	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25556	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-3	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25555	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	**1.02**	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0216**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0882**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	**0.0167**	0.0100	MG/L	7421	6/16/97
Nickel	**0.0782**	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0925**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.180**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25555	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25555	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.9	99
Toluene-d8	10.0	8.3	83

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	05/31/97
Lab Sample ID:	25550	Date Received:	06/04/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	06/15/97
Arsenic	BQL	0.0100	MG/L	7060	06/16/97
Barium	BQL	0.500	MG/L	6010A	06/15/97
Beryllium	BQL	0.0020	MG/L	6010A	06/15/97
Cadmium	BQL	0.0010	MG/L	6010A	06/15/97
Chromium	**0.0165**	0.0100	MG/L	6010A	06/15/97
Cobalt	BQL	0.0100	MG/L	6010A	06/15/97
Copper	BQL	0.200	MG/L	6010A	06/15/97
Lead	BQL	0.0100	MG/L	7421	06/16/97
Nickel	BQL	0.0500	MG/L	6010A	06/15/97
Selenium	BQL	0.0200	MG/L	7740	06/15/97
Silver	BQL	0.0100	MG/L	6010A	06/16/97
Thallium	BQL	0.0100	MG/L	7841	06/16/97
Vanadium	BQL	0.0400	MG/L	6010A	06/15/97
Zinc	**0.0870**	0.0500	MG/L	6010A	06/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-4
Client Project ID: 6447-13772-010
Lab Sample ID: 25550
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/13/97
Analyzed By: CKC
Date Collected: 5/31/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: FN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25550	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	8.0	80
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.6	96

Comments:
All results are corrected for dilution.

Reviewed by: FJP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	5/31/97
Lab Sample ID:	25549	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25549	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25549	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	7.8	78
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25553	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0124**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0731**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0667**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: cgl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25553	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25553	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.4	104
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.2	92

Comments:
All results are corrected for dilution.

Reviewed by: DNI.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	06/01/97
Lab Sample ID:	25554	Date Received:	06/04/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	06/15/97
Arsenic	BQL	0.0100	MG/L	7060	06/16/97
Barium	BQL	0.500	MG/L	6010A	06/15/97
Beryllium	BQL	0.0020	MG/L	6010A	06/15/97
Cadmium	BQL	0.0010	MG/L	6010A	06/15/97
Chromium	BQL	0.0100	MG/L	6010A	06/15/97
Cobalt	BQL	0.0100	MG/L	6010A	06/15/97
Copper	BQL	0.200	MG/L	6010A	06/15/97
Lead	BQL	0.0100	MG/L	7421	06/16/97
Nickel	BQL	0.0500	MG/L	6010A	06/15/97
Selenium	BQL	0.0200	MG/L	7740	06/15/97
Silver	BQL	0.0100	MG/L	6010A	06/16/97
Thallium	BQL	0.0100	MG/L	7841	06/16/97
Vanadium	BQL	0.0400	MG/L	6010A	06/15/97
Zinc	BQL	0.0500	MG/L	6010A	06/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25554	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25554	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-6	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25552	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	**0.580**	0.500	MG/L	6010A	6/15/97
Beryllium	**0.0026**	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0184**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0493**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0626**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0732**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-6	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25552	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: 6447-13772-010
Lab Sample ID: 25552
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/1/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.1	101
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	7.1	71

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-7	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25551	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0541**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0358**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	**0.136**	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0845**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.127**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-7
Client Project ID: 6447-13772-010
Lab Sample ID: 25551
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/1/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RLP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25551	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	10.7	107
Toluene-d8	10.0	8.8	88

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	5/31/97
Lab Sample ID:	25548	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0109**	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0746**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25548	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25548	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	8.0	80
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: RNY

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	DUP-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	unknown
Lab Sample ID:	25559	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0600**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	DUP-1	Date Analyzed:	6/16/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25559	Date Collected:	unknown
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: DUP-1
Client Project ID: 6447-13772-010
Lab Sample ID: 25559
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/16/97
Analyzed By: WML
Date Collected: unknown
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	10.5	105
Toluene-d8	10.0	8.3	83

Comments:
All results are corrected for dilution.

Reviewed by: TCNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25563	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: TNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25563	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25561	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25561	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25561	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	9.2	92

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-2	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25562	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0120**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0534**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: vgel

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	EB-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	unknown
Lab Sample ID:	25558	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: EB-1
Client Project ID: 6447-13772-010
Lab Sample ID: 25558
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/11/97
Analyzed By: WML
Date Collected: unknown
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	6/11/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25560	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	6/11/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25560	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	10.0	100

Comments:
All results are corrected for dilution.

Reviewed by: TNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 1 of 2

Client: Camp Dresser & McKee
Project ID: 6447-13712-010
Date: 5/31/97 6/1 - 6/3/97
Report To: Tim Grant
5400 Glenwood Ave
Ste 300, Raleigh NC 27612
Address: Raleigh NC.
P.O. Number:
Turnaround:
Address:
Contact: Tim Grant
Job Number:
Quote #:
Phone: 919-787-5620
Invoice To: Same as above

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3			Analyses: App. I VOC.		App. I. METALS								Comments: Please specify any special reporting requirements
																		6175-9
MW-8	5/31/97	0950	H2O	X	X			4		1								
MW-4 D	5/31/97	1130	H2O	X	X			4		1								
MW 4	5/31/97	1210	H2O	X	X			4		1								
MW-7	6/1/97	0950	H2O	X	X			4		1								
MW-6	6/1/97	1045	H2O	X	X			4		1								
MW-5	6/1/97	1150	H2O	X	X			4		1								
MW-5D	6/1/97	1310	H2O	X	X			4		1								

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	Chris Stephenson	6/4/97	1045	on ice		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

Client: Camp Dresser & McKee
Address: Raleigh NC.
Address:
Quote #:
Project ID:
P.O. Number:
Contact: Tim Gizant
Phone: 919-787-5620
Date: 6/2/97
Turnaround:
Job Number:
Report To: Tim Gizant
Invoice To: Same as above

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3			Analyses: App. I VOC.		App. I METALS								Comments: Please specify any special reporting requirements
																		6175-9
MW-3	6/2/97	0815	H2O	X	X			4		1								
MW-20	6/2/97	0940	H2O	X	X			4		1								
MW-2	6/2/97	1018	H2O	X	X			4		1								
EB-1	-	-	H2O	X	X			4		1								
Dup-1	-	-	H2O	X	X			4		1								
Trip Blank	-	-	H2O	X	X			4		1								
SW-1	6/2/97	18:00	H2O ~~18:00~~					4		1								
SW-2	6/2/97	16:30	H2O					4		1								
SW-3	~~6/2/97~~	—	—					4		+								
MW-8D	6/2/97	15:50	H2O					4		1								

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	Chris Stephen	6/4/97	1045	on ice		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 08[illegible]

Page 1 of 1

Client: Camp Dresser & McKee Project ID: Buncombe Cnty Date: 6/3/97 Report To: Jim Grant Raleigh NC.

Address: Raleigh NC. P.O. Number: Turnaround:

Address: Contact: Job Number:

Quote #: Phone: Invoice To: Same as above.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: H_2O_3	Preservatives	Preservatives	Analyses: App. I VOC	Analyses: App. I. Metals	Comments: Please specify any special reporting requirements
										G175-10
mw 1	6/3/97	1420	H_2O					4	1	
mw 1 D	6/3/97	1540	H_2O					4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	[signature]	6/5/97	1016	on ice		

Appendix A
Analytical Data - October 22, 1996

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16552	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MZ

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16552	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	10	100
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	6.4	64

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16553	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16553	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.3	106
1,2-Dichloroethane-d4	5	5.6	112
Toluene-d8	5	6.1	122

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16558	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MR

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16558	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.6	92
1,2-Dichloroethane-d4	5	4.7	94
Toluene-d8	5	4.9	98

Comments:
All results are corrected for dilution.

Reviewed by: MZ

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16556	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16556	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	7.6	76

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	DUP-1	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16557	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	DUP-1	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16557	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.3	106
1,2-Dichloroethane-d4	5	5.9	118
Toluene-d8	5	5.4	108

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-3	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16560	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-3	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16560	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	8.8	88

Comments:
All results are corrected for dilution.

Reviewed by: NW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16555	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16555	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.8	96
1,2-Dichloroethane-d4	5	5.2	104
Toluene-d8	5	5.4	108

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16554	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MSC

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16554	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.4	108
1,2-Dichloroethane-d4	5	5.5	110
Toluene-d8	5	6.2	124

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16565
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-5	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16565	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.2	104
1,2-Dichloroethane-d4	5	5.2	104
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: Ma

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5D
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16566
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5D
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16566
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.1	102
1,2-Dichloroethane-d4	5	5.4	108
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: WAV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-6
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16564
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-6
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16564
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	10	100
1,2-Dichloroethane-d4	10	12	120
Toluene-d8	10	7.8	78

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-7
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16563
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-7	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16563	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	12	120
Toluene-d8	10	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16562	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16561	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16561	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	11	110
1,2-Dichloroethane-d4	10.0	11	110
Toluene-d8	10.0	10	100

Comments:
All results are corrected for dilution.

Reviewed by: Mn

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-1	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16568	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-1	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16568	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5	100
1,2-Dichloroethane-d4	5	5.3	106
Toluene-d8	5	5	100

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-2	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16569	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-2	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16569	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.8	96
1,2-Dichloroethane-d4	5	5.5	110
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: SW-3
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16567
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-3	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16567	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.1	102
1,2-Dichloroethane-d4	5	5.4	108
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: Mw

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	EQ-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16559	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: EQ-1
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16559
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/22/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	10	100

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	TRIP BLANK	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16570	Date Collected:	10/16/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MK

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	TRIP BLANK	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16570	Date Collected:	10/16/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5	100
1,2-Dichloroethane-d4	5	5.8	116
Toluene-d8	5	5.2	104

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16552	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.9**	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.25**	0.01	MG/L	7191	10/30/96
Cobalt	**0.1**	0.01	MG/L	7201	10/30/96
Copper	**0.25**	0.2	MG/L	6010	10/31/96
Lead	**0.023**	0.01	MG/L	7421	10/30/96
Nickel	**0.18**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.42**	0.04	MG/L	7911	10/31/96
Zinc	**0.29**	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16556	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.015**	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	DUP-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16557	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.011**	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-3	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16560	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**2.8**	0.5	MG/L	6010	10/31/96
Beryllium	**0.011**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.84**	0.01	MG/L	7191	10/30/96
Cobalt	**0.16**	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	**0.057**	0.01	MG/L	7421	10/30/96
Nickel	**0.36**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**1**	0.04	MG/L	7911	10/31/96
Zinc	**0.63**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16555	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.8**	0.5	MG/L	6010	10/31/96
Beryllium	**0.0053**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.47**	0.01	MG/L	7191	10/30/96
Cobalt	**0.12**	0.01	MG/L	7201	10/30/96
Copper	**0.32**	0.2	MG/L	6010	10/31/96
Lead	**0.044**	0.01	MG/L	7421	10/30/96
Nickel	**0.26**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.57**	0.04	MG/L	7911	10/31/96
Zinc	**0.31**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16554	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	0.15	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16566	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-6	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16564	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**2.4**	0.5	MG/L	6010	10/31/96
Beryllium	**0.014**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.54**	0.01	MG/L	7191	10/30/96
Cobalt	**0.16**	0.01	MG/L	7201	10/30/96
Copper	**0.22**	0.2	MG/L	6010	10/31/96
Lead	**0.056**	0.01	MG/L	7421	10/30/96
Nickel	**0.22**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.68**	0.04	MG/L	7911	10/31/96
Zinc	**0.53**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: mr

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-7	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16563	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**3.6**	0.5	MG/L	6010	10/31/96
Beryllium	**0.015**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.94**	0.01	MG/L	7191	10/30/96
Cobalt	**0.27**	0.01	MG/L	7201	10/30/96
Copper	**0.55**	0.2	MG/L	6010	10/31/96
Lead	**0.066**	0.01	MG/L	7421	10/30/96
Nickel	**0.67**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	**0.74**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16562	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.5**	0.5	MG/L	6010	10/31/96
Beryllium	**0.013**	0.002	MG/L	7091	11/01/96
Cadmium	**0.0015**	0.001	MG/L	7131	10/30/96
Chromium	**0.48**	0.01	MG/L	7191	10/30/96
Cobalt	**0.12**	0.01	MG/L	7201	10/30/96
Copper	**0.26**	0.2	MG/L	6010	10/31/96
Lead	**0.06**	0.01	MG/L	7421	10/30/96
Nickel	**0.2**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.55**	0.04	MG/L	7911	10/31/96
Zinc	**0.49**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16561	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	0.055	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16568	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-2	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16569	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-3	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16567	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**0.51**	0.5	MG/L	6010	10/31/96
Beryllium	**0.0021**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.08**	0.01	MG/L	7191	10/30/96
Cobalt	**0.027**	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	**0.058**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.09**	0.04	MG/L	7911	10/31/96
Zinc	**0.083**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	EQ-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16559	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: Max

Section 4
Statistical Analysis

The Solid Waste Management Rule 15A NCAC 13B.1632 requires new MSWLF units establish background groundwater quality to demonstrate compliance with groundwater monitoring requirements. Part of the compliance demonstration involves statistical comparisons of upgradient (background) and downgradient (compliance) monitoring well data. The statistical analysis is performed on the baseline groundwater quality monitoring, which consists of four independent sampling events. The intent of the statistical comparisons is to determine statistically significant increases over background parameters in compliance wells. A statistically significant increase of an Appendix I constituent in a compliance well requires further action on the part of the MSWLF owner/operator.

The following section details the statistical analysis performed on the background and compliance baseline groundwater monitoring data for the Buncombe County Solid Waste Management Facility. The rationale and methods used in the statistical analysis of the groundwater data follow the EPA interim final guidance and the addendum, April 1989 and July 1992 publication, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities," and the NC Solid Waste Management Rule, 15A NCAC 13B.1632.

4.1 Methodology

The baseline groundwater quality data for the Buncombe County Solid Waste Management Facility that was used for statistical comparisons consisted of data from four independent sampling events from October 1996 to September 1997, at the background wells MW-1 and MW-1D, and the compliance wells MW-2, MW-2D, MW-3, MW-4, MW-4D, MW-5, MW-5D, MW-6, MW-7, MW-8, and MW-8D.

Comparisons were made on data from wells screened in the shallow portion of the aquifer as well as the deep portion. Deep wells are denoted by a "D" in the well identification and include MW-1D, 2D, 4D, 5D, and 8D.

Statistical Analyses - Statistical comparisons were performed on Appendix I constituents quantified above the detection limit during any of the four sampling events. Based on the analytical laboratory results, a statistical comparison of arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc concentrations in the background well of MW-1 and compliance wells MW-3, MW-5, MW-6, MW-7, and MW-8 was performed. A statistical comparison of barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc in background well MW-1 and compliance well MW-4 was performed. A statistical comparison of barium, beryllium, chromium, cobalt, lead, nickel, vanadium, and zinc in the background well MW-1 and

compliance well MW-2 was performed. A statistical comparison of arsenic and chromium in the deep background well MW-1D and compliance well MW-2D was performed. A statistical comparison of arsenic, chromium, and zinc in the deep background well and compliance well MW-4D was performed. There were no Appendix I constituents quantified above the detection limit in compliance well MW-5D; therefore, no statistical analysis was performed. Since there were no detections of antimony, selenium, and silver in the background wells or the compliance well samples, no statistical comparison of background and compliance data for these parameters was performed. There were no statistical comparisons of background and compliance well VOC data, since none of the VOCs were quantified above the detection limit in the background wells or the compliance wells, with the exception of toluene, which was quantitated only slightly above the detection limit in the last sampling event in MW-1D.

Metals - The first step in the statistical analysis of the background and compliance metals data is to determine the number of values in the data set that are quantified above the detection limit. If greater than 50 percent of the values in the data set are below the detection limit, the appropriate comparison is the test of proportions or the Kruskal-Wallis Test. The Kruskal-Wallis Test is used when a nonparametric test is needed and compliance well groups are being compared to background data. The test of proportions compares the proportion of detects in the compliance and background wells, to determine whether there is a significant proportion of detects in compliance well data over background.

The percentage of nondetects for the individual metals varied for each of the compliance wells. Due to the high percentage of nondetects in the data sets, the Kruskal-Wallis Test was used for the following comparisons:

METAL	KRUSKAL-WALLIS TEST COMPARISON
Arsenic	MW-1 and -1D to MW-2D, -3, -4D, -5, -6, -7, and -8
Barium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Beryllium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Cadmium	MW-1 to MW-3, -4, -5, -7, and -8
Chromium	MW-1D to MW-2D
Copper	MW-1 to MW-4, -6, -7, and -8
Lead	MW-1 to MW-2, -3, -4, -5, 6, -7, and -8
Nickel	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Zinc	MW-1D to MW-4D, and -8D

A parametric analysis of variance (ANOVA) is a statistical procedure to determine whether there is a difference in the mean concentration between the groups of data. An ANOVA method can be used when greater than 50 percent of the data is quantified above the detection limit. The ANOVA procedure was used for the following comparisons:

METAL	ANOVA COMPARISON
Chromium	MW-1 to MW-2, -3, -4, -5, -6, -7 and -8
Cobalt	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8

Vanadium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Zinc	MW-1 and -1D to MW-2, -3, -4, -4D, -5, -6, -7, -8, and -8D

For individual well comparisons, an ANOVA was performed at a Type I error level of 0.01. When the metal concentrations detected in a background or compliance well sample set were below the detection limit, a value of one-half the detection limit was used for statistical purposes.

The only VOC constituent quantified above the detection limit in any of the baseline samples was toluene, which was detected in background well MW-1D at a concentration of 4 ug/L. Since toluene was not quantified in any of the compliance well samples for any of the four events, a statistical analysis was not performed.

4.2 Results - Statistical Analysis

The results of the analytical and statistical analysis of the baseline groundwater quality data are discussed below. The statistical calculations are contained in Appendix E.

Background Wells - MW-1 and MW-1D
Eleven (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) of the fifteen Appendix I metals were quantified above the detection limit in one or more of the background well MW-1 samples. Chromium, cobalt, lead, nickel, and vanadium concentrations in the MW-1 samples were above the 2L Standards. No VOCs were quantified above the detection limit in any of the MW-1 samples. Barium, beryllium, chromium, cobalt, lead, and zinc were quantified in one of the deep background well samples, MW-1D. Beryllium, cobalt, and lead were above the North Carolina Groundwater Standards. No VOCs except toluene were quantified above the detection limit in any of the MW-1D samples. A statistical comparison was performed only on arsenic, chromium, and zinc in the deep background and compliance well samples since these were the only constituents quantified above the detection limit.

Compliance Well - MW-2
Barium, beryllium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-2 samples.

The Kruskal-Wallis Test was performed on the barium, beryllium, lead, and nickel detections in MW-2 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-2D
Arsenic and chromium were quantified above the detection limit in one or more of the deep compliance well MW-2D samples.

The Kruskal-Wallis Test was performed on these metals due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-3
Arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-3 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, lead, and nickel detections in MW-3 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-4
Compliance well, MW-4, had quantifications above the detection limit for barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc in one or more of the sampling event samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-3 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-4D
Arsenic, cadmium, and zinc were quantified above the detection limit in one or more of the deep compliance well MW-4D samples.

The Kruskal-Wallis Test was performed on these metals due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-5
Arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-5 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, lead, and nickel detections in MW-5 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-6
Arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-6 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, copper, lead, and nickel detections in MW-6 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-7
Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-7 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-7 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-8
Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-8 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-8 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-8D
Zinc was quantified above the detection limit in one of the deep compliance well MW-8D samples.

The Kruskal-Wallis Test was performed on this metal due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Conclusion

The results of the statistical comparisons show that there were no statistically significant Appendix I constituents in the compliance well samples over background well samples.

Section 3
Laboratory Analysis

The remaining three baseline sampling events were completed in June, August, and September of 1997. The groundwater samples collected from each of the monitoring wells in the approved network were analyzed for the full Appendix I constituent list. Monitoring wells MW-1 and MW-1D function as the background wells for the facility.

The water quality sample collection and analysis were done in accordance with the Water Quality Monitoring Plan and incorporated the directives outlined in the memorandums from the SWS to MSWLF owners and operators. The analytical results from the initial groundwater sampling event were completed and presented in the *Buncombe County Solid Waste Management Facility Water Quality Monitoring System Installation and Initial Sampling Report*. This report provides all of the analytical results from the four subsequent events. The analytical results from all the sampling events are summarized in Table 3-1 for comparison purposes. The laboratory data for the sampling events are presented in Appendices A, B, C, and D.

For QA/QC purposes, an equipment blank, a trip blank, and a duplicate sample were collected during each sampling event, in accordance with the Sampling and Analysis Plan. The equipment blanks and trip blanks were below detection limits for all analysis. The duplicate samples show good correlation between the sample sets.

No Appendix I volatile organic compounds (VOCs) were detected in any of the wells, with the exception of toluene detected in MW-1D in the September, 1997 sampling event. Toluene was present at a concentration of 4 ug/L. No statistics were performed on toluene since it was only detected in the background well.

Several metals were detected in both the background and the compliance wells. Table 3-1 provides a summary of the analytical results and a comparison of the results to the North Carolina 2L Standards.

Three surface water samples were taken at three separate events. Arsenic, cobalt, and zinc were detected at SW-2 during the June, 1997 and September, 1997 sampling events; however, the results were below the 2L Standards. Barium, beryllium, chromium, cobalt, nickel, vanadium, and zinc were detected at SW-3 during the initial sampling event in October, 1996, but not in any of the subsequent events. Chromium was detected at concentration above the North Carolina 2L Standard. The increased metals concentration at this location may be due to the construction activities that were still in operation at this time, thus creating additional sediment runoff.

Table 3-1
Detected Groundwater Constituents - Metals
Buncombe County Solid Waste Management Facility

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
NC Standard		0.05	2		0.005	0.05		1	0.015	0.1		2.1
SW-1	22-Oct-96											
SW-1	2-Jun-97											
SW-1	4-Sep-97											
SW-2	22-Oct-96											
SW-2	2-Jun-97						0.012					0.0534
SW-2	4-Sep-97	0.0114										
SW-3	22-Oct-96		0.51	0.0021		0.08	0.027			0.058	0.09	0.083
SW-3	2-Jun-97											
SW-3	4-Sep-97											

All units are in milligrams per liter (parts per million).

*-Proposed standard

- Concentrations exceeds N.C. Groundwater Standards (2L)

Section 2
Field Activities

2.1 Sample Collection

The initial baseline sampling event for the Buncombe County Solid Waste Management Facility was completed in October 1996, and the results were presented in the report *Water Quality Monitoring System Installation and Initial Sampling Report*, which was submitted to the Solid Waste Section in November 1996. The three remaining baseline sampling events were completed on the following dates: June 2, 1997, July 25, 1997, and September 4, 1997. Samples of groundwater from shallow and deep portions of the aquifer were collected from each of the following monitoring wells around the existing facility: MW-1, MW-1D, MW-2, MW-2D, MW-3, MW-4, MW-4D, MW-5, MW-5D, MW-6, MW-7, MW-8, and MW-8D. Monitoring well sampling locations are shown on Sheet 2-1. Three surface water samples (SW-1, SW-2, and SW-3) were collected during the October, 1996, June, 1997, and September, 1997 sampling events. However, the SW-3 location was dry during both the June, 1997 and September, 1997 events. No samples were collected from the Alternative Monitoring System, which underlies Cells 1 and 2 and the leachate pond, since no liquids were present in the sampling ports.

All water quality sampling collection procedures were done in accordance with the Sampling and Analysis Plan contained in the Water Quality Monitoring Plan. The Sampling and Analysis Plan was developed so that representative groundwater samples could be collected during each event and also provided guidance for sample collection procedures, sample preservation and shipment, analytical procedures, and field and laboratory quality assurance/quality control (QA/QC).

Prior to sample collection and well purging, static water levels were measured at all wells. An electronic water level indicator was used to accurately measure water elevations to within 0.01 foot. All measurements were referenced from the top of the polyvinyl chloride (PVC) casing. Groundwater elevations from all four sampling events are presented in Table 2-1.

The static water level data were used to calculate well casing volumes. All wells were then purged of a minimum of three well volumes or until field measurements of pH, temperature, and specific conductance were stabilized. After purging activities were completed, groundwater samples were then collected for laboratory analysis. The results of the laboratory analysis are discussed further in Section 3. For QA/QC purposes, one trip blank, one equipment blank, and one duplicate sample were also collected during each

Table 2-1
Groundwater Elevations
Buncombe County Solid Waste Management Facility

Monitoring Well Designation	TOC Elevation (AMSL)	Groundwater Elevations (AMSL)			
		10/23/96	**6/2/97**	**7/25/97**	**9/4/97**
MW-1	2021.22	1953.40	1954.90	1952.63	1954.37
MW-1D	2021.57	1953.32	1954.33	1954.22	1954.30
MW-2	1920.86	1912.81	1913.46	1913.49	1913.99
MW-2D	1920.51	1912.70	1913.17	1913.21	1913.65
MW-3	1987.66	1956.42	1954.62	1954.56	1953.81
MW-4	1944.35	1931.27	1929.23	1930.25	1929.80
MW-4D	1944.64	1930.62	1928.85	1928.50	1927.55
MW-5	1979.12	1939.10	1941.39	1941.27	1940.93
MW-5D	1979.92	1939.23	1941.75	1941.37	1940.80
MW-6	1987.34	1956.67	1957.67	1958.22	1957.19
MW-7	2022.83	1975.07	1974.28	1974.33	1974.03
MW-8	1962.06	1939.73	1938.29	1937.93	1934.66
MW-8D	1962.47	1942.81	1941.36	1940.99	1940.77

Notes:
1. AMSL - Above Mean Sea Level
2. D= deep well

sampling event. Field testing for pH, temperature, and specific conductance was also done during each sampling event. The field testing results from all four sampling events are summarized in Table 2-2.

The wells were sampled and purged using laboratory-decontaminated teflon bailers with new nylon rope. Bailers were used for only one well, and no field decontamination of bailers was allowed. Sample collection procedures and preservation were done in accordance with the Sampling and Analysis Plan.

2.2 Groundwater Flow

The baseline sampling report requires that the groundwater flow direction and rate be determined for each well during each sampling event. Groundwater flow direction was ascertained by reviewing the groundwater elevation data presented in Table 2-1 to determine if changes in groundwater flow direction resulted from seasonal fluctuations in the water table. Groundwater elevations from each sampling event were plotted on the site map (Figure 2-1) and the potentiometric intervals were contoured. No overall changes in groundwater flow direction were noted. Figure 2-1 presents the potentiometric contour map generated using the groundwater elevations from September 1996. These readings are representative of the groundwater flow conditions.

The groundwater flow rate was calculated for each well during each sampling event. To estimate this aquifer property, the average linear velocity equation was used (Fetter, 1988, p.126). This equation, which relates effective porosity, hydraulic conductivity, and gradient, takes the form of:

$$V = K/n_e * dH/dL$$

where: V = average linear velocity (ft./day)
K = hydraulic conductivity (ft./day)
n_e = effective porosity
dH/dL = hydraulic gradient

Average linear velocities were calculated in this manner for each well and are presented in Table 2-3. Groundwater flow velocity was calculated using the hydraulic conductivity and porosity values presented in the *Initial Baseline Sampling Report*. These values are not expected to vary between sampling events. However, the hydraulic gradient would be expected to vary between sampling events in response to fluctuations in the water table. The hydraulic gradient was calculated for each well by comparison to the groundwater elevation of the downgradient wells to the groundwater elevations from the upgradient well. The orientation of these wells is perpendicular to the groundwater flow direction. The hydraulic gradient for the remaining wells is the average of all the gradients for each event. Little or no variance was noted in the hydraulic gradient. This further indicates that the potentiometric contour map is a valid representation of groundwater flow direction for each sampling event.

Table 2-2
Field Parameters
Buncombe County Solid Waste Management Facility

Event:	No. 1			No. 2			No. 3			No. 4		
Sampling Date:	10/23/96			6/2/97			7/25/97			9/4/97		
Monitoring Well Designation	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)
MW-1	6.25	126	17.2	--	--	--	6.14	141	15.7	6.38	156	14.1
MW-1D	8.81	593	16.5	--	--	--	8.77	233	15.2	8.45	387	14.4
MW-2	6.13	122	15.7	6.1	101	12.5	5.9	121	16.1	6.41	132	16.9
MW-2D	6.63	139	15.4	6.63	146	13.4	6.39	170	14.5	7.22	197	13.6
MW-3	6.16	76	13.1	5.64	100	12.9	6.22	114	14.1	6.61	121	13.4
MW-4	6.37	217	15.9	9	294	12.7	8.45	379	14.2	6.93	298	14.5
MW-4D	6.45	199	13.2	6.48	220	18.2	6.53	253	14.1	6.95	288	13.0
MW-5	7.94	294	16.9	9.02	168	15.7	10.31	242	15.9	10.36	253	14.3
MW-5D	6.31	109	14.0	6.51	112	15.7	6.31	130	14.3	6.51	144	13.6
MW-6	5.78	76	14.0	5.25	88	14.8	6.03	98	15.0	6.22	112	14.3
MW-7	6.74	267	15.8	--	--	--	6.8	305	15.5	7.23	371	15.1
MW-8	6.54	222	15.4	6.58	147	14.8	6.63	173	15.5	6.8	174	16.5
MW-8D	6.42	126	14.9	5.86	129	16.0	6.58	144	15.5	6.82	159	15.2
SW-1	6.58	90	12.6	6.99	99	17.3	NS	NS	NS	8.07	127	18.4
SW-2	6.88	111	12.5	7.03	123	21.6	NS	NS	NS	8.31	151	19.6
SW-3	5.91	116	15.0	Dry	Dry	Dry	NS	NS	NS	Dry	Dry	Dry

Notes:
1. SW denotes Surface Water Sampling Point
2. – Sampled, Measurement Was Not Recorded
3. NS denotes Not Sampled

Section 1
Introduction

Camp Dresser & McKee (CDM) was contracted by the Buncombe County Solid Waste Management Division to install the water quality monitoring system at the new Buncombe County Solid Waste Management Facility and to complete the baseline sampling. In October 1996, the installation and the initial sampling of the water quality monitoring system were performed. The results of this sampling event and a discussion on the well installation activities were included in the report *Water Quality Monitoring System Installation and Initial Sampling Report,* submitted to the Solid Waste Section in November 1996.

Subsequently, the remaining three baseline sampling events have been completed. This report presents the results from these three sampling events and the statistical analysis of the data from all four sampling events which comprise the baseline sampling for this facility. Section 2 includes a discussion of the sampling activities and the hydrogeologic data. Section 3 is a discussion of the analytical results. Section 4 contains the statistical analyses, results, and conclusions of all tests performed. The Appendices contain all of the laboratory data and the statistical calculations.

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Statistical Calculations

		Chromium				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.25	0.0141	0.005	0.0145	0.2836	0.0709
MW-2	0.13	0.005	0.005	0.005	0.145	0.03625
MW-3	0.84	0.0216	0.0102	0.0114	0.8832	0.2208
MW-4	0.47	0.0165	0.0117	0.005	0.5032	0.1258
MW-5	0.22	0.005	0.005	0.005	0.235	0.05875
MW-6	0.54	0.0184	0.005	0.005	0.5684	0.1421
MW-7	0.94	0.0541	0.005	0.0441	1.0432	0.2608
MW-8	0.48	0.0109	0.005	0.005	0.5009	0.125225
				x.. =	4.1625	
				x..(mean)	0.130078	
SS wells =	0.713044		with 7 degrees of freedom			
	0.54145					
	0.171594					
SS total =	2.467073					
	1.925623		with 31 degrees of freedom			
SS error =	1.754028		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.171594	7	0.024513	0.335412	2.42	
Error (withi	1.754028	24	0.073085			
Total	1.925623	31				

		Cobalt				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.1	0.0275	0.005	0.0425	0.175	0.04375
MW-2	0.083	0.0132	0.005	0.005	0.1062	0.02655
MW-3	0.16	0.882	0.0483	0.0465	1.1368	0.2842
MW-4	0.12	0.005	0.005	0.005	0.135	0.03375
MW-5	0.048	0.0124	0.005	0.005	0.0704	0.0176
MW-6	0.16	0.0493	0.0408	0.005	0.2551	0.063775
MW-7	0.27	0.0358	0.005	0.005	0.3158	0.07895
MW-8	0.12	0.005	0.005	0.005	0.135	0.03375
				x.. =	2.3293	
				x..(mean)	0.072791	
SS wells =	0.385107		with 7 degrees of freedom			
	0.169551					
	0.215556					
SS total =	0.963129					
	0.793578		with 31 degrees of freedom			
SS error =	0.578022		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.215556	7	0.030794	1.278584	2.42	
Error (withi	0.578022	24	0.024084			
Total	0.793578	31				

		Vanadium				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.42	0.0456	0.02	0.052	0.5376	0.1344
MW-2	0.13	0.02	0.02	0.02	0.19	0.0475
MW-3	1	0.0925	0.0634	0.0572	1.2131	0.303275
MW-4	0.57	0.02	0.02	0.02	0.63	0.1575
MW-5	0.28	0.0731	0.0553	0.0642	0.4726	0.11815
MW-6	0.68	0.0626	0.02	0.02	0.7826	0.19565
MW-7	0.04	0.0845	0.02	0.0815	0.226	0.0565
MW-8	0.55	0.02	0.02	0.02	0.61	0.1525
				x.. =	4.6619	
				x..(mean)	0.145684	
SS wells =	0.863154		with 7 degrees of freedom			
	0.679166					
	0.183988					
SS total =	2.419156					
	1.73999		with 31 degrees of freedom			
SS error =	1.556002		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.183988	7	0.026284	0.405408	2.42	
Error (withi	1.556002	24	0.064833			
Total	1.73999	31				

		Zinc				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.29	0.0773	0.0025	0.0518	0.4216	0.1054
MW-2	0.45	0.0566	0.0025	0.0025	0.5116	0.1279
MW-3	0.63	0.18	0.141	0.107	1.058	0.2645
MW-4	0.31	0.087	0.0025	0.0025	0.402	0.1005
MW-5	0.18	0.0667	0.0025	0.0025	0.2517	0.062925
MW-6	0.53	0.0732	0.0025	0.0025	0.6082	0.15205
MW-7	0.74	0.127	0.0025	0.0594	0.9289	0.232225
MW-8	0.49	0.0746	0.0025	0.0025	0.5696	0.1424
				x.. =	4.7516	
				x..(mean)	0.148488	
SS wells =	0.835252		with 7 degrees of freedom			
	0.705553					
	0.129699					
SS total =	1.998866					
	1.293313		with 31 degrees of freedom			
SS error =	1.163614		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.129699	7	0.018528	0.382156	2.42	
Error (withi	1.163614	24	0.048484			
Total	1.293313	31				

			Arsenic														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-3		MW-5		MW-6		MW-7		MW-8						
1.00	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5					
2.00	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5					
3.00	0.01	8.5	0.02	24	0.01	8.5	0.0157	22	0.0139	21	0.01	8.5					
4.00	0.01	19	0.01	20	0.01	18	0.01	8.5	0.0174	23	0.0107	17					
Sum of Ranks		44.5		61		43.5		47.5		61		42.5					
Average Ranks		11.125		15.25		10.9		11.9		15.3		10.6					
K= (number of wells)				6													
N = (total number of observations)				24													
H =	600	0.02	495.0625		930.25		473.0625		564.0625		930.25		451.5625				
			76.885														
		H=	1.885														
tied observations		4080	13800														
		0.7043															
tied adjustment		2.6762					H (tabulated) = 11.07										

			Barium														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	1.90	29	1.50	26.5	2.80	31	1.8	28	0.64	22	2.4	30	3.6	32	1.5	26.5	
2.00	0.00	9.5	0.00	9.5	1.02	25	0	9.5	0	9.5	0.58	20	0	9.5	0	9.5	
3.00	0.00	9.5	0.00	9.5	0.73	24	0	9.5	0	9.5	0.57	19	0	9.5	0	9.5	
4.00	0.65	23	0.00	9.5	0.63	21	0	9.5	0	9.5	0	9.5	0	9.5	0	9.5	
Sum of Ranks		71		55		101		56.5		50.5		78.5		60.5		55	
Average Ranks		17.75		13.75		25.3		14.1		12.6		19.6		15.1		13.75	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	1260.25		756.25		2550.25		798.0625		637.563		1540.563		915.0625		756.25
			104.7074														
		H=	5.707386														
tied observations		5814	6	5820	32736												
		0.8222															
tied adjustment		6.9415					H (tabulated) = 14.07										

			Beryllium														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.00	12.5	0.01	28	0.01	29	0.0053	27	0.0048	26	0.014	31	0.015	32	0.013	30	
2.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0.0026	25	0	12.5	0	12.5	
3.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0	12.5	0	12.5	0	12.5	
4.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0	12.5	0	12.5	0	12.5	
Sum of Ranks		50		65.5		66.5		64.5		63.5		81		69.5		67.5	
Average Ranks		12.5		16.375		16.6		16.1		15.9		20.3		17.4		16.875	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	625		1072.563		1105.563		1040.063		1008.06		1640.25		1207.563		1139.063
			100.4332														
		H=	1.433239														
tied observations		13800	0	13800	32736												
		0.5784															
tied adjustment		2.4777					H (tabulated) = 14.07										

			Lead														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.02	25.5	0.05	28	0.06	30	0.044	27	0.023	25.5	0.056	29	0.066	32	0.06	31	
2.00	0.01	22	0.00	11	0.02	24	0	11	0	11	0	11	0	11	0	11	
3.00	0.00	11	0.00	11	0.00	11	0	11	0	11	0	11	0	11	0	11	
4.00	0.01	23	0.00	11	0.00	11	0	11	0	11	0	11	0	11	0	11	
Sum of Ranks		81.5		61		76		60		58.5		62		65		64	
Average Ranks		20.375		15.25		19		15		14.6		15.5		16.3		16	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	1660.563		930.25		1444		900		855.563		961		1056.25		1024
			100.3594														
		H=	1.359375														
tied observations		9240	6	9246	32736												
		0.7176															
tied adjustment		1.8944					H (tabulated) = 14.07										

			Nickel														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.18	27	0.14	26	0.36	31	0.26	30	0.11	24	0.22	29	0.67	32	0.2	28	
2.00	0.00	10.5	0.00	10.5	0.08	23	0	10.5	0	10.5	0	10.5	0.136	25	0	10.5	
3.00	0.00	10.5	0.00	10.5	0.00	10.5	0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	
4.00	0.00	10.5	0.00	10.5	0.07	22	0	10.5	0	10.5	0	10.5	0.053	21	0	10.5	
Sum of Ranks		58.5		57.5		86.5		61.5		55.5		60.5		88.5		59.5	
Average Ranks		14.625		14.375		21.6		15.4		13.9		15.1		22.1		14.875	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	855.5625		826.5625		1870.563		945.5625		770.063		915.0625		1958.063		885.0625
			102.5739														
		H=	3.573864														
tied observations		7980	0	7980	32736												
		0.7562															
tied adjustment		4.7259					H (tabulated) = 14.07										

			Arsenic								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-2D		MW-4D						
1.00	0.00	5.2	0.00	5.2	0.00	5.2					
2.00	0.00	5.2	0.00	5.2	0.00	5.2					
3.00	0.00	5.2	0.00	5.2	0.00	5.2					
4.00	0.00	5.2	0.01	11	0.01	12					
Sum of Ranks		20.8		26.6		27.6					
Average Ranks		5.2		6.65		6.9					
K= (number of wells)				3							
N = (total number of observations)				12							
H =	156	0.076923077	108.16		176.89		190.44				
			36.57615								
		H=	-2.42385								
tied observations		990	1716								
		0.423076923									
tied adjustment		-5.729090909					H (tabulated) = 5.991				

			Chromium								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-2D								
1.00	0.03	8	0.02	7							
2.00	0.00	3.5	0.00	3.5							
3.00	0.00	3.5	0.00	3.5							
4.00	0.00	3.5	0.00	3.5							
Sum of Ranks		18.5		17.5							
Average Ranks		4.625		4.375							
K= (number of wells)				2							
N = (total number of observations)				8							
H =	72	0.166666667	85.5625		76.5625						
			27.02083								
		H=	0.020833								
tied observations		210	504								
		0.583333333									
tied adjustment		0.035714286					H (tabulated) = 3.841				

			Zinc								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-4D		MW-8D						
1.00	0.60	12	0.15	11	0.06	9					
2.00	0.07	10	0.00	4.5	0.00	4.5					
3.00	0.00	4.5	0.00	4.5	0.00	4.5					
4.00	0.00	4.5	0.00	4.5	0.00	4.5					
Sum of Ranks		31		24.5		22.5					
Average Ranks		7.75		6.125		5.625					
K= (number of wells)				3							
N = (total number of observations)				12							
H =	156	0.076923077	240.25		150.0625		126.5625				
			39.75962								
		H=	0.759615								
tied observations		504	1716								
		0.706293706									
tied adjustment		1.07549505					H (tabulated) = 5.991				

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Section 1
Introduction

Camp Dresser & McKee (CDM) was contracted by the Buncombe County Solid Waste Management Division to install the water quality monitoring system at the new Buncombe County Solid Waste Management Facility and to complete the baseline sampling. In October 1996, the installation and the initial sampling of the water quality monitoring system were performed. The results of this sampling event and a discussion on the well installation activities were included in the report *Water Quality Monitoring System Installation and Initial Sampling Report,* submitted to the Solid Waste Section in November 1996.

Subsequently, the remaining three baseline sampling events have been completed. This report presents the results from these three sampling events and the statistical analysis of the data from all four sampling events which comprise the baseline sampling for this facility. Section 2 includes a discussion of the sampling activities and the hydrogeologic data. Section 3 is a discussion of the analytical results. Section 4 contains the statistical analyses, results, and conclusions of all tests performed. The Appendices contain all of the laboratory data and the statistical calculations.

Section 2
Field Activities

2.1 Sample Collection

The initial baseline sampling event for the Buncombe County Solid Waste Management Facility was completed in October 1996, and the results were presented in the report *Water Quality Monitoring System Installation and Initial Sampling Report*, which was submitted to the Solid Waste Section in November 1996. The three remaining baseline sampling events were completed on the following dates: June 2, 1997, July 25, 1997, and September 4, 1997. Samples of groundwater from shallow and deep portions of the aquifer were collected from each of the following monitoring wells around the existing facility: MW-1, MW-1D, MW-2, MW-2D, MW-3, MW-4, MW-4D, MW-5, MW-5D, MW-6, MW-7, MW-8, and MW-8D. Monitoring well sampling locations are shown on Sheet 2-1. Three surface water samples (SW-1, SW-2, and SW-3) were collected during the October, 1996, June, 1997, and September, 1997 sampling events. However, the SW-3 location was dry during both the June, 1997 and September, 1997 events. No samples were collected from the Alternative Monitoring System, which underlies Cells 1 and 2 and the leachate pond, since no liquids were present in the sampling ports.

All water quality sampling collection procedures were done in accordance with the Sampling and Analysis Plan contained in the Water Quality Monitoring Plan. The Sampling and Analysis Plan was developed so that representative groundwater samples could be collected during each event and also provided guidance for sample collection procedures, sample preservation and shipment, analytical procedures, and field and laboratory quality assurance/quality control (QA/QC).

Prior to sample collection and well purging, static water levels were measured at all wells. An electronic water level indicator was used to accurately measure water elevations to within 0.01 foot. All measurements were referenced from the top of the polyvinyl chloride (PVC) casing. Groundwater elevations from all four sampling events are presented in Table 2-1.

The static water level data were used to calculate well casing volumes. All wells were then purged of a minimum of three well volumes or until field measurements of pH, temperature, and specific conductance were stabilized. After purging activities were completed, groundwater samples were then collected for laboratory analysis. The results of the laboratory analysis are discussed further in Section 3. For QA/QC purposes, one trip blank, one equipment blank, and one duplicate sample were also collected during each

Table 2-1
Groundwater Elevations
Buncombe County Solid Waste Management Facility

Monitoring Well Designation	TOC Elevation (AMSL)	Groundwater Elevations (AMSL)			
		10/23/96	**6/2/97**	**7/25/97**	**9/4/97**
MW-1	2021.22	1953.40	1954.90	1952.63	1954.37
MW-1D	2021.57	1953.32	1954.33	1954.22	1954.30
MW-2	1920.86	1912.81	1913.46	1913.49	1913.99
MW-2D	1920.51	1912.70	1913.17	1913.21	1913.65
MW-3	1987.66	1956.42	1954.62	1954.56	1953.81
MW-4	1944.35	1931.27	1929.23	1930.25	1929.80
MW-4D	1944.64	1930.62	1928.85	1928.50	1927.55
MW-5	1979.12	1939.10	1941.39	1941.27	1940.93
MW-5D	1979.92	1939.23	1941.75	1941.37	1940.80
MW-6	1987.34	1956.67	1957.67	1958.22	1957.19
MW-7	2022.83	1975.07	1974.28	1974.33	1974.03
MW-8	1962.06	1939.73	1938.29	1937.93	1934.66
MW-8D	1962.47	1942.81	1941.36	1940.99	1940.77

Notes:
1. AMSL - Above Mean Sea Level
2. D= deep well

sampling event. Field testing for pH, temperature, and specific conductance was also done during each sampling event. The field testing results from all four sampling events are summarized in Table 2-2.

The wells were sampled and purged using laboratory-decontaminated teflon bailers with new nylon rope. Bailers were used for only one well, and no field decontamination of bailers was allowed. Sample collection procedures and preservation were done in accordance with the Sampling and Analysis Plan.

2.2 Groundwater Flow

The baseline sampling report requires that the groundwater flow direction and rate be determined for each well during each sampling event. Groundwater flow direction was ascertained by reviewing the groundwater elevation data presented in Table 2-1 to determine if changes in groundwater flow direction resulted from seasonal fluctuations in the water table. Groundwater elevations from each sampling event were plotted on the site map (Figure 2-1) and the potentiometric intervals were contoured. No overall changes in groundwater flow direction were noted. Figure 2-1 presents the potentiometric contour map generated using the groundwater elevations from September 1996. These readings are representative of the groundwater flow conditions.

The groundwater flow rate was calculated for each well during each sampling event. To estimate this aquifer property, the average linear velocity equation was used (Fetter, 1988, p.126). This equation, which relates effective porosity, hydraulic conductivity, and gradient, takes the form of:

$$V = K/n_e * dH/dL$$

where: V = average linear velocity (ft./day)
K = hydraulic conductivity (ft./day)
n_e = effective porosity
dH/dL = hydraulic gradient

Average linear velocities were calculated in this manner for each well and are presented in Table 2-3. Groundwater flow velocity was calculated using the hydraulic conductivity and porosity values presented in the *Initial Baseline Sampling Report*. These values are not expected to vary between sampling events. However, the hydraulic gradient would be expected to vary between sampling events in response to fluctuations in the water table. The hydraulic gradient was calculated for each well by comparison to the groundwater elevation of the downgradient wells to the groundwater elevations from the upgradient well. The orientation of these wells is perpendicular to the groundwater flow direction. The hydraulic gradient for the remaining wells is the average of all the gradients for each event. Little or no variance was noted in the hydraulic gradient. This further indicates that the potentiometric contour map is a valid representation of groundwater flow direction for each sampling event.

Table 2-2
Field Parameters
Buncombe County Solid Waste Management Facility

Event:	No. 1			No. 2			No. 3			No. 4		
Sampling Date:	10/23/96			6/2/97			7/25/97			9/4/97		
Monitoring Well Designation	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)	pH (-)	Conductivity (µS)	Temp. (deg. C)
MW-1	6.25	126	17.2	--	--	--	6.14	141	15.7	6.38	156	14.1
MW-1D	8.81	593	16.5	--	--	--	8.77	233	15.2	8.45	387	14.4
MW-2	6.13	122	15.7	6.1	101	12.5	5.9	121	16.1	6.41	132	16.9
MW-2D	6.63	139	15.4	6.63	146	13.4	6.39	170	14.5	7.22	197	13.6
MW-3	6.16	76	13.1	5.64	100	12.9	6.22	114	14.1	6.61	121	13.4
MW-4	6.37	217	15.9	9	294	12.7	8.45	379	14.2	6.93	298	14.5
MW-4D	6.45	199	13.2	6.48	220	18.2	6.53	253	14.1	6.95	288	13.0
MW-5	7.94	294	16.9	9.02	168	15.7	10.31	242	15.9	10.36	253	14.3
MW-5D	6.31	109	14.0	6.51	112	15.7	6.31	130	14.3	6.51	144	13.6
MW-6	5.78	76	14.0	5.25	88	14.8	6.03	98	15.0	6.22	112	14.3
MW-7	6.74	267	15.8	--	--	--	6.8	305	15.5	7.23	371	15.1
MW-8	6.54	222	15.4	6.58	147	14.8	6.63	173	15.5	6.8	174	16.5
MW-8D	6.42	126	14.9	5.86	129	16.0	6.58	144	15.5	6.82	159	15.2
SW-1	6.58	90	12.6	6.99	99	17.3	NS	NS	NS	8.07	127	18.4
SW-2	6.88	111	12.5	7.03	123	21.6	NS	NS	NS	8.31	151	19.6
SW-3	5.91	116	15.0	Dry	Dry	Dry	NS	NS	NS	Dry	Dry	Dry

Notes:
1. SW denotes Surface Water Sampling Point
2. – Sampled, Measurement Was Not Recorded
3. NS denotes Not Sampled

Section 3
Laboratory Analysis

The remaining three baseline sampling events were completed in June, August, and September of 1997. The groundwater samples collected from each of the monitoring wells in the approved network were analyzed for the full Appendix I constituent list. Monitoring wells MW-1 and MW-1D function as the background wells for the facility.

The water quality sample collection and analysis were done in accordance with the Water Quality Monitoring Plan and incorporated the directives outlined in the memorandums from the SWS to MSWLF owners and operators. The analytical results from the initial groundwater sampling event were completed and presented in the *Buncombe County Solid Waste Management Facility Water Quality Monitoring System Installation and Initial Sampling Report*. This report provides all of the analytical results from the four subsequent events. The analytical results from all the sampling events are summarized in Table 3-1 for comparison purposes. The laboratory data for the sampling events are presented in Appendices A, B, C, and D.

For QA/QC purposes, an equipment blank, a trip blank, and a duplicate sample were collected during each sampling event, in accordance with the Sampling and Analysis Plan. The equipment blanks and trip blanks were below detection limits for all analysis. The duplicate samples show good correlation between the sample sets.

No Appendix I volatile organic compounds (VOCs) were detected in any of the wells, with the exception of toluene detected in MW-1D in the September, 1997 sampling event. Toluene was present at a concentration of 4 ug/L. No statistics were performed on toluene since it was only detected in the background well.

Several metals were detected in both the background and the compliance wells. Table 3-1 provides a summary of the analytical results and a comparison of the results to the North Carolina 2L Standards.

Three surface water samples were taken at three separate events. Arsenic, cobalt, and zinc were detected at SW-2 during the June, 1997 and September, 1997 sampling events; however, the results were below the 2L Standards. Barium, beryllium, chromium, cobalt, nickel, vanadium, and zinc were detected at SW-3 during the initial sampling event in October, 1996, but not in any of the subsequent events. Chromium was detected at concentration above the North Carolina 2L Standard. The increased metals concentration at this location may be due to the construction activities that were still in operation at this time, thus creating additional sediment runoff.

Table 3-1
Detected Groundwater Constituents - Metals
Buncombe County Solid Waste Management Facility

Monitor Well	Sample Date	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
NC Standard		0.05	2		0.005	0.05		1	0.015	0.1		2.1
SW-1	22-Oct-96											
SW-1	2-Jun-97											
SW-1	4-Sep-97											
SW-2	22-Oct-96											
SW-2	2-Jun-97						0.012					0.0534
SW-2	4-Sep-97	0.0114										
SW-3	22-Oct-96		0.51	0.0021		0.08	0.027			0.058	0.09	0.083
SW-3	2-Jun-97											
SW-3	4-Sep-97											

All units are in milligrams per liter (parts per million).

*-Proposed standard

- Concentrations exceeds N.C. Groundwater Standards (2L)

Section 4
Statistical Analysis

The Solid Waste Management Rule 15A NCAC 13B.1632 requires new MSWLF units establish background groundwater quality to demonstrate compliance with groundwater monitoring requirements. Part of the compliance demonstration involves statistical comparisons of upgradient (background) and downgradient (compliance) monitoring well data. The statistical analysis is performed on the baseline groundwater quality monitoring, which consists of four independent sampling events. The intent of the statistical comparisons is to determine statistically significant increases over background parameters in compliance wells. A statistically significant increase of an Appendix I constituent in a compliance well requires further action on the part of the MSWLF owner/operator.

The following section details the statistical analysis performed on the background and compliance baseline groundwater monitoring data for the Buncombe County Solid Waste Management Facility. The rationale and methods used in the statistical analysis of the groundwater data follow the EPA interim final guidance and the addendum, April 1989 and July 1992 publication, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities," and the NC Solid Waste Management Rule, 15A NCAC 13B.1632.

4.1 Methodology

The baseline groundwater quality data for the Buncombe County Solid Waste Management Facility that was used for statistical comparisons consisted of data from four independent sampling events from October 1996 to September 1997, at the background wells MW-1 and MW-1D, and the compliance wells MW-2, MW-2D, MW-3, MW-4, MW-4D, MW-5, MW-5D, MW-6, MW-7, MW-8, and MW-8D.

Comparisons were made on data from wells screened in the shallow portion of the aquifer as well as the deep portion. Deep wells are denoted by a "D" in the well identification and include MW-1D, 2D, 4D, 5D, and 8D.

Statistical Analyses - Statistical comparisons were performed on Appendix I constituents quantified above the detection limit during any of the four sampling events. Based on the analytical laboratory results, a statistical comparison of arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc concentrations in the background well of MW-1 and compliance wells MW-3, MW-5, MW-6, MW-7, and MW-8 was performed. A statistical comparison of barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc in background well MW-1 and compliance well MW-4 was performed. A statistical comparison of barium, beryllium, chromium, cobalt, lead, nickel, vanadium, and zinc in the background well MW-1 and

compliance well MW-2 was performed. A statistical comparison of arsenic and chromium in the deep background well MW-1D and compliance well MW-2D was performed. A statistical comparison of arsenic, chromium, and zinc in the deep background well and compliance well MW-4D was performed. There were no Appendix I constituents quantified above the detection limit in compliance well MW-5D; therefore, no statistical analysis was performed. Since there were no detections of antimony, selenium, and silver in the background wells or the compliance well samples, no statistical comparison of background and compliance data for these parameters was performed. There were no statistical comparisons of background and compliance well VOC data, since none of the VOCs were quantified above the detection limit in the background wells or the compliance wells, with the exception of toluene, which was quantitated only slightly above the detection limit in the last sampling event in MW-1D.

Metals - The first step in the statistical analysis of the background and compliance metals data is to determine the number of values in the data set that are quantified above the detection limit. If greater than 50 percent of the values in the data set are below the detection limit, the appropriate comparison is the test of proportions or the Kruskal-Wallis Test. The Kruskal-Wallis Test is used when a nonparametric test is needed and compliance well groups are being compared to background data. The test of proportions compares the proportion of detects in the compliance and background wells, to determine whether there is a significant proportion of detects in compliance well data over background.

The percentage of nondetects for the individual metals varied for each of the compliance wells. Due to the high percentage of nondetects in the data sets, the Kruskal-Wallis Test was used for the following comparisons:

METAL	KRUSKAL-WALLIS TEST COMPARISON
Arsenic	MW-1 and -1D to MW-2D, -3, -4D, -5, -6, -7, and -8
Barium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Beryllium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Cadmium	MW-1 to MW-3, -4, -5, -7, and -8
Chromium	MW-1D to MW-2D
Copper	MW-1 to MW-4, -6, -7, and -8
Lead	MW-1 to MW-2, -3, -4, -5, 6, -7, and -8
Nickel	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Zinc	MW-1D to MW-4D, and -8D

A parametric analysis of variance (ANOVA) is a statistical procedure to determine whether there is a difference in the mean concentration between the groups of data. An ANOVA method can be used when greater than 50 percent of the data is quantified above the detection limit. The ANOVA procedure was used for the following comparisons:

METAL	ANOVA COMPARISON
Chromium	MW-1 to MW-2, -3, -4, -5, -6, -7 and -8
Cobalt	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8

Vanadium	MW-1 to MW-2, -3, -4, -5, -6, -7, and -8
Zinc	MW-1 and -1D to MW-2, -3, -4, -4D, -5, -6, -7, -8, and -8D

For individual well comparisons, an ANOVA was performed at a Type I error level of 0.01. When the metal concentrations detected in a background or compliance well sample set were below the detection limit, a value of one-half the detection limit was used for statistical purposes.

The only VOC constituent quantified above the detection limit in any of the baseline samples was toluene, which was detected in background well MW-1D at a concentration of 4 ug/L. Since toluene was not quantified in any of the compliance well samples for any of the four events, a statistical analysis was not performed.

4.2 Results - Statistical Analysis

The results of the analytical and statistical analysis of the baseline groundwater quality data are discussed below. The statistical calculations are contained in Appendix E.

Background Wells - MW-1 and MW-1D
Eleven (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) of the fifteen Appendix I metals were quantified above the detection limit in one or more of the background well MW-1 samples. Chromium, cobalt, lead, nickel, and vanadium concentrations in the MW-1 samples were above the 2L Standards. No VOCs were quantified above the detection limit in any of the MW-1 samples. Barium, beryllium, chromium, cobalt, lead, and zinc were quantified in one of the deep background well samples, MW-1D. Beryllium, cobalt, and lead were above the North Carolina Groundwater Standards. No VOCs except toluene were quantified above the detection limit in any of the MW-1D samples. A statistical comparison was performed only on arsenic, chromium, and zinc in the deep background and compliance well samples since these were the only constituents quantified above the detection limit.

Compliance Well - MW-2
Barium, beryllium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-2 samples.

The Kruskal-Wallis Test was performed on the barium, beryllium, lead, and nickel detections in MW-2 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-2D
Arsenic and chromium were quantified above the detection limit in one or more of the deep compliance well MW-2D samples.

The Kruskal-Wallis Test was performed on these metals due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-3
Arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-3 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, lead, and nickel detections in MW-3 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-4
Compliance well, MW-4, had quantifications above the detection limit for barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc in one or more of the sampling event samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-3 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-4D
Arsenic, cadmium, and zinc were quantified above the detection limit in one or more of the deep compliance well MW-4D samples.

The Kruskal-Wallis Test was performed on these metals due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-5
Arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-5 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, lead, and nickel detections in MW-5 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-6
Arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-6 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, copper, lead, and nickel detections in MW-6 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-7
Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-7 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-7 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-8
Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were quantified above the detection limit in one or more of the compliance well MW-8 samples.

The Kruskal-Wallis Test was performed on the arsenic, barium, beryllium, cadmium, copper, lead, and nickel detections in MW-8 samples. The ANOVA statistical test was performed on the chromium, cobalt, vanadium, and zinc detections. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Compliance Well - MW-8D
Zinc was quantified above the detection limit in one of the deep compliance well MW-8D samples.

The Kruskal-Wallis Test was performed on this metal due to the high percentage of nondetects in the sample groups. The performance of the statistical tests resulted in the conclusion that the metals quantified at this well were not statistically significant over background.

Conclusion

The results of the statistical comparisons show that there were no statistically significant Appendix I constituents in the compliance well samples over background well samples.

Appendix A
Analytical Data - October 22, 1996

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16552	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MZ

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16552	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	10	100
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	6.4	64

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16553	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-1D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16553	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.3	106
1,2-Dichloroethane-d4	5	5.6	112
Toluene-d8	5	6.1	122

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16558	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MR

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16558	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.6	92
1,2-Dichloroethane-d4	5	4.7	94
Toluene-d8	5	4.9	98

Comments:
All results are corrected for dilution.

Reviewed by: MZ

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16556	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-2D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16556	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	7.6	76

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	DUP-1	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16557	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	DUP-1	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16557	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.3	106
1,2-Dichloroethane-d4	5	5.9	118
Toluene-d8	5	5.4	108

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-3	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16560	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-3	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16560	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	8.8	88

Comments:
All results are corrected for dilution.

Reviewed by: NW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16555	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16555	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.8	96
1,2-Dichloroethane-d4	5	5.2	104
Toluene-d8	5	5.4	108

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16554	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MSC

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-4D	Date Analyzed:	10/25/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16554	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.4	108
1,2-Dichloroethane-d4	5	5.5	110
Toluene-d8	5	6.2	124

Comments:

All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16565
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-5	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16565	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.2	104
1,2-Dichloroethane-d4	5	5.2	104
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: Ma

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5D
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16566
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-5D
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16566
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.1	102
1,2-Dichloroethane-d4	5	5.4	108
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: WAV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-6
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16564
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-6
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16564
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	10	100
1,2-Dichloroethane-d4	10	12	120
Toluene-d8	10	7.8	78

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: MW-7
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16563
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-7	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16563	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	12	120
Toluene-d8	10	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16562	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16561	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	MW-8D	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16561	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	11	110
1,2-Dichloroethane-d4	10.0	11	110
Toluene-d8	10.0	10	100

Comments:
All results are corrected for dilution.

Reviewed by: Mn

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-1	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16568	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-1	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16568	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5	100
1,2-Dichloroethane-d4	5	5.3	106
Toluene-d8	5	5	100

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-2	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16569	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-2	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16569	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	4.8	96
1,2-Dichloroethane-d4	5	5.5	110
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: SW-3
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16567
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/6/96
Analyzed By: CKC
Date Collected: 10/23/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	SW-3	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16567	Date Collected:	10/23/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5.1	102
1,2-Dichloroethane-d4	5	5.4	108
Toluene-d8	5	5.1	102

Comments:
All results are corrected for dilution.

Reviewed by: Mw

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	EQ-1	Date Analyzed:	11/4/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	RNP
Lab Sample ID:	16559	Date Collected:	10/22/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID: EQ-1
Client Project ID: Buncombe Co. Landfill
Lab Sample ID: 16559
Lab Project ID: G175-2
Matrix: Water

Date Analyzed: 11/4/96
Analyzed By: RNP
Date Collected: 10/22/96
Date Received: 10/25/96
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10	11	110
1,2-Dichloroethane-d4	10	11	110
Toluene-d8	10	10	100

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	TRIP BLANK	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16570	Date Collected:	10/16/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MK

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260

Client Sample ID:	TRIP BLANK	Date Analyzed:	11/6/96
Client Project ID:	Buncombe Co. Landfill	Analyzed By:	CKC
Lab Sample ID:	16570	Date Collected:	10/16/96
Lab Project ID:	G175-2	Date Received:	10/25/96
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl acetate	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	5	5	100
1,2-Dichloroethane-d4	5	5.8	116
Toluene-d8	5	5.2	104

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16552	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.9**	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.25**	0.01	MG/L	7191	10/30/96
Cobalt	**0.1**	0.01	MG/L	7201	10/30/96
Copper	**0.25**	0.2	MG/L	6010	10/31/96
Lead	**0.023**	0.01	MG/L	7421	10/30/96
Nickel	**0.18**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.42**	0.04	MG/L	7911	10/31/96
Zinc	**0.29**	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16556	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.015**	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	DUP-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16557	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.011**	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-3	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16560	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**2.8**	0.5	MG/L	6010	10/31/96
Beryllium	**0.011**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.84**	0.01	MG/L	7191	10/30/96
Cobalt	**0.16**	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	**0.057**	0.01	MG/L	7421	10/30/96
Nickel	**0.36**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**1**	0.04	MG/L	7911	10/31/96
Zinc	**0.63**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16555	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.8**	0.5	MG/L	6010	10/31/96
Beryllium	**0.0053**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.47**	0.01	MG/L	7191	10/30/96
Cobalt	**0.12**	0.01	MG/L	7201	10/30/96
Copper	**0.32**	0.2	MG/L	6010	10/31/96
Lead	**0.044**	0.01	MG/L	7421	10/30/96
Nickel	**0.26**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.57**	0.04	MG/L	7911	10/31/96
Zinc	**0.31**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16554	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	0.15	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16566	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-6	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16564	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**2.4**	0.5	MG/L	6010	10/31/96
Beryllium	**0.014**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.54**	0.01	MG/L	7191	10/30/96
Cobalt	**0.16**	0.01	MG/L	7201	10/30/96
Copper	**0.22**	0.2	MG/L	6010	10/31/96
Lead	**0.056**	0.01	MG/L	7421	10/30/96
Nickel	**0.22**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.68**	0.04	MG/L	7911	10/31/96
Zinc	**0.53**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: mr

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-7	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16563	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**3.6**	0.5	MG/L	6010	10/31/96
Beryllium	**0.015**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.94**	0.01	MG/L	7191	10/30/96
Cobalt	**0.27**	0.01	MG/L	7201	10/30/96
Copper	**0.55**	0.2	MG/L	6010	10/31/96
Lead	**0.066**	0.01	MG/L	7421	10/30/96
Nickel	**0.67**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	**0.74**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16562	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**1.5**	0.5	MG/L	6010	10/31/96
Beryllium	**0.013**	0.002	MG/L	7091	11/01/96
Cadmium	**0.0015**	0.001	MG/L	7131	10/30/96
Chromium	**0.48**	0.01	MG/L	7191	10/30/96
Cobalt	**0.12**	0.01	MG/L	7201	10/30/96
Copper	**0.26**	0.2	MG/L	6010	10/31/96
Lead	**0.06**	0.01	MG/L	7421	10/30/96
Nickel	**0.2**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.55**	0.04	MG/L	7911	10/31/96
Zinc	**0.49**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8D	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16561	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	0.055	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16568	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-2	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16569	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:
BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-3	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/23/96
Lab Sample ID:	16567	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	**0.51**	0.5	MG/L	6010	10/31/96
Beryllium	**0.0021**	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	**0.08**	0.01	MG/L	7191	10/30/96
Cobalt	**0.027**	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	**0.058**	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	**0.09**	0.04	MG/L	7911	10/31/96
Zinc	**0.083**	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	EQ-1	Analyzed By:	QC
Client Project ID:	Buncombe Co. Landfill	Date Collected:	10/22/96
Lab Sample ID:	16559	Date Received:	10/25/96
Lab Project ID:	G175-2	Matrix:	Water

Parameter	Result	Detection Limit	Units	Method	Date Analyzed
Antimony	BQL	0.03	MG/L	7041	10/30/96
Arsenic	BQL	0.01	MG/L	7060	10/30/96
Barium	BQL	0.5	MG/L	6010	10/31/96
Beryllium	BQL	0.002	MG/L	7091	11/01/96
Cadmium	BQL	0.001	MG/L	7131	10/30/96
Chromium	BQL	0.01	MG/L	7191	10/30/96
Cobalt	BQL	0.01	MG/L	7201	10/30/96
Copper	BQL	0.2	MG/L	6010	10/31/96
Lead	BQL	0.01	MG/L	7421	10/30/96
Nickel	BQL	0.05	MG/L	6010	10/31/96
Selenium	BQL	0.02	MG/L	7740	10/30/96
Silver	BQL	0.01	MG/L	7761	10/30/96
Thallium	BQL	0.01	MG/L	7841	10/30/96
Vanadium	BQL	0.04	MG/L	7911	10/31/96
Zinc	BQL	0.05	MG/L	6010	10/31/96

Note:

BQL = Below Quantitation Limit

Reviewed By: Max

Appendix B
Analytical Data - May 31,1997

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1	Analyzed By:	JMF
Client Project ID:	Buncombe County	Date Collected:	6/3/97
Lab Sample ID:	25575	Date Received:	6/6/97
Lab Project ID:	G175-10	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0141**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0275**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0456**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0773**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25575	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25575	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	7.6	76

Comments:
All results are corrected for dilution.

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-1 D	Analyzed By:	JMF
Client Project ID:	Buncombe County	Date Collected:	6/3/97
Lab Sample ID:	25576	Date Received:	6/6/97
Lab Project ID:	G175-10	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0666**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: ggd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-1 D
Client Project ID: Buncombe County
Lab Sample ID: 25576
Lab Project ID: G175-10
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/3/97
Date Received: 6/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-1 D	Date Analyzed:	6/15/97
Client Project ID:	Buncombe County	Analyzed By:	WML
Lab Sample ID:	25576	Date Collected:	6/3/97
Lab Project ID:	G175-10	Date Received:	6/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.0	100
1,2-Dichloroethane-d4	10.0	10.2	102
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25557	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0132**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0566**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: rad

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25557	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25557	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.3	93

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-2D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25556	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25556	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: PNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25556	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-3	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25555	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	**1.02**	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0216**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0882**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	**0.0167**	0.0100	MG/L	7421	6/16/97
Nickel	**0.0782**	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0925**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.180**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25555	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25555	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.9	99
Toluene-d8	10.0	8.3	83

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	05/31/97
Lab Sample ID:	25550	Date Received:	06/04/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	06/15/97
Arsenic	BQL	0.0100	MG/L	7060	06/16/97
Barium	BQL	0.500	MG/L	6010A	06/15/97
Beryllium	BQL	0.0020	MG/L	6010A	06/15/97
Cadmium	BQL	0.0010	MG/L	6010A	06/15/97
Chromium	**0.0165**	0.0100	MG/L	6010A	06/15/97
Cobalt	BQL	0.0100	MG/L	6010A	06/15/97
Copper	BQL	0.200	MG/L	6010A	06/15/97
Lead	BQL	0.0100	MG/L	7421	06/16/97
Nickel	BQL	0.0500	MG/L	6010A	06/15/97
Selenium	BQL	0.0200	MG/L	7740	06/15/97
Silver	BQL	0.0100	MG/L	6010A	06/16/97
Thallium	BQL	0.0100	MG/L	7841	06/16/97
Vanadium	BQL	0.0400	MG/L	6010A	06/15/97
Zinc	**0.0870**	0.0500	MG/L	6010A	06/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-4
Client Project ID: 6447-13772-010
Lab Sample ID: 25550
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/13/97
Analyzed By: CKC
Date Collected: 5/31/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: FN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25550	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	8.0	80
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.6	96

Comments:
All results are corrected for dilution.

Reviewed by: FJP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-4D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	5/31/97
Lab Sample ID:	25549	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25549	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25549	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	7.8	78
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25553	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0124**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0731**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0667**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: cgl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25553	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25553	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.4	104
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.2	92

Comments:
All results are corrected for dilution.

Reviewed by: DNI.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-5D	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	06/01/97
Lab Sample ID:	25554	Date Received:	06/04/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	06/15/97
Arsenic	BQL	0.0100	MG/L	7060	06/16/97
Barium	BQL	0.500	MG/L	6010A	06/15/97
Beryllium	BQL	0.0020	MG/L	6010A	06/15/97
Cadmium	BQL	0.0010	MG/L	6010A	06/15/97
Chromium	BQL	0.0100	MG/L	6010A	06/15/97
Cobalt	BQL	0.0100	MG/L	6010A	06/15/97
Copper	BQL	0.200	MG/L	6010A	06/15/97
Lead	BQL	0.0100	MG/L	7421	06/16/97
Nickel	BQL	0.0500	MG/L	6010A	06/15/97
Selenium	BQL	0.0200	MG/L	7740	06/15/97
Silver	BQL	0.0100	MG/L	6010A	06/16/97
Thallium	BQL	0.0100	MG/L	7841	06/16/97
Vanadium	BQL	0.0400	MG/L	6010A	06/15/97
Zinc	BQL	0.0500	MG/L	6010A	06/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25554	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-5D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25554	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-6	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25552	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	**0.580**	0.500	MG/L	6010A	6/15/97
Beryllium	**0.0026**	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0184**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0493**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0626**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0732**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-6	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25552	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: 6447-13772-010
Lab Sample ID: 25552
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/1/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.1	101
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	7.1	71

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-7	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/1/97
Lab Sample ID:	25551	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0541**	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0358**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	**0.136**	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	**0.0845**	0.0400	MG/L	6010A	6/15/97
Zinc	**0.127**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: agl

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: MW-7
Client Project ID: 6447-13772-010
Lab Sample ID: 25551
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/15/97
Analyzed By: WML
Date Collected: 6/1/97
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RLP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25551	Date Collected:	6/1/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	10.7	107
Toluene-d8	10.0	8.8	88

Comments:
All results are corrected for dilution.

Reviewed by: RNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	MW-8	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	5/31/97
Lab Sample ID:	25548	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	**0.0109**	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0746**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25548	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	6/13/97
Client Project ID:	6447-13772-010	Analyzed By:	CKC
Lab Sample ID:	25548	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	8.0	80
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: RNY

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	DUP-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	unknown
Lab Sample ID:	25559	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0600**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	DUP-1	Date Analyzed:	6/16/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25559	Date Collected:	unknown
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: DUP-1
Client Project ID: 6447-13772-010
Lab Sample ID: 25559
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/16/97
Analyzed By: WML
Date Collected: unknown
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	10.5	105
Toluene-d8	10.0	8.3	83

Comments:
All results are corrected for dilution.

Reviewed by: TCNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25563	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: TNV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25563	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25561	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25561	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RHV

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	6/15/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25561	Date Collected:	6/2/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	9.2	92

Comments:
All results are corrected for dilution.

Reviewed by: BNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	SW-2	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	6/2/97
Lab Sample ID:	25562	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	**0.0120**	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	**0.0534**	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: vgel

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Inorganics

Client Sample ID:	EB-1	Analyzed By:	JMF
Client Project ID:	6447-13772-010	Date Collected:	unknown
Lab Sample ID:	25558	Date Received:	6/4/97
Lab Project ID:	G175-9	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	6/15/97
Arsenic	BQL	0.0100	MG/L	7060	6/16/97
Barium	BQL	0.500	MG/L	6010A	6/15/97
Beryllium	BQL	0.0020	MG/L	6010A	6/15/97
Cadmium	BQL	0.0010	MG/L	6010A	6/15/97
Chromium	BQL	0.0100	MG/L	6010A	6/15/97
Cobalt	BQL	0.0100	MG/L	6010A	6/15/97
Copper	BQL	0.200	MG/L	6010A	6/15/97
Lead	BQL	0.0100	MG/L	7421	6/16/97
Nickel	BQL	0.0500	MG/L	6010A	6/15/97
Selenium	BQL	0.0200	MG/L	7740	6/16/97
Silver	BQL	0.0100	MG/L	6010A	6/15/97
Thallium	BQL	0.0100	MG/L	7841	6/16/97
Vanadium	BQL	0.0400	MG/L	6010A	6/15/97
Zinc	BQL	0.0500	MG/L	6010A	6/15/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID: EB-1
Client Project ID: 6447-13772-010
Lab Sample ID: 25558
Lab Project ID: G175-9
Matrix: Water

Date Analyzed: 6/11/97
Analyzed By: WML
Date Collected: unknown
Date Received: 6/4/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: RNP.

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	6/11/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25560	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	100	BQL
Acrylonitrile	200	BQL
Benzene	5.0	BQL
Bromochloromethane	5.0	BQL
Bromodichloromethane	5.0	BQL
Bromoform	5.0	BQL
Carbon disulfide	100	BQL
Carbon tetrachloride	10	BQL
Chlorobenzene	5.0	BQL
Chloroethane	10	BQL
Chloroform	5.0	BQL
Chlorodibromomethane	5.0	BQL
DBCP (1,2-Dibromo-3-chloropropane)	25	BQL
Ethylene dibromide (EDB)	5.0	BQL
o-Dichlorobenzene	5.0	BQL
p-Dichlorobenzene	5.0	BQL
t-1,4-Dichloro-2-butene	100	BQL
1,1-Dichloroethane	5.0	BQL
Ethylene dichloride	5.0	BQL
Vinylidene chloride	5.0	BQL
cis-1,2-Dichloroethene	5.0	BQL
t-1,2-Dichloroethene	5.0	BQL
Propylene dichloride	5.0	BQL
cis-1,3-Dichloropropene	10	BQL
t-1,3-Dichloropropene	10	BQL
Ethylbenzene	5.0	BQL
Methyl butyl ketone	50	BQL
Methyl bromide	10	BQL
Methyl chloride	10	BQL
Methylene bromide	10	BQL
Methylene chloride	10	BQL
MEK (2-Butanone)	100	BQL
Methyl iodide	10	BQL
Methyl isobutyl ketone	100	BQL
Styrene	10	BQL
1,1,1,2-Tetrachloroethane	5.0	BQL
1,1,2,2-Tetrachloroethane	5.0	BQL
Tetrachloroethylene	5.0	BQL
Toluene	5.0	BQL
1,1,1-Trichloroethane	5.0	BQL
1,1,2-Trichloroethane	5.0	BQL
Trichloroethene	5.0	BQL
CFC-11 (Trichlorofluoromethane)	5.0	BQL
1,2,3-Trichloropropane	15	BQL
Vinyl acetate	50	BQL
Vinyl chloride	10	BQL
Xylenes (total)	5.0	BQL

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix I Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	6/11/97
Client Project ID:	6447-13772-010	Analyzed By:	WML
Lab Sample ID:	25560	Date Collected:	5/31/97
Lab Project ID:	G175-9	Date Received:	6/4/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	10.1	101
Toluene-d8	10.0	10.0	100

Comments:
All results are corrected for dilution.

Reviewed by: TNP

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 1 of 2

Client: Camp Dresser & McKee
Project ID: 6447-13712-010
Date: 5/31/97 6/1 - 6/3/97
Report To: Tim Grant
5400 Glenwood Ave
Ste 300, Raleigh NC 27612
Address: Raleigh NC.
P.O. Number:
Turnaround:
Address:
Contact: Tim Grant
Job Number:
Quote #:
Phone: 919-787-5620
Invoice To: Same as above

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3			Analyses: App. I VOC.		App. I. METALS								Comments: Please specify any special reporting requirements
																		6175-9
MW-8	5/31/97	0950	H2O	X	X			4		1								
MW-4 D	5/31/97	1130	H2O	X	X			4		1								
MW 4	5/31/97	1210	H2O	X	X			4		1								
MW-7	6/1/97	0950	H2O	X	X			4		1								
MW-6	6/1/97	1045	H2O	X	X			4		1								
MW-5	6/1/97	1150	H2O	X	X			4		1								
MW-5D	6/1/97	1310	H2O	X	X			4		1								

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	Chris Stephenson	6/4/97	1045	on ice		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

Client: Camp Dresser & McKee
Address: Raleigh NC.
Address:
Quote #:
Project ID:
P.O. Number:
Contact: Tim Gizant
Phone: 919-787-5620
Date: 6/2/97
Turnaround:
Job Number:
Report To: Tim Gizant
Invoice To: Same as above

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3			Analyses: App. I VOC.		App. I METALS								Comments: Please specify any special reporting requirements
																		6175-9
MW-3	6/2/97	0815	H2O	X	X			4		1								
MW-20	6/2/97	0940	H2O	X	X			4		1								
MW-2	6/2/97	1018	H2O	X	X			4		1								
EB-1	-	-	H2O	X	X			4		1								
Dup-1	-	-	H2O	X	X			4		1								
Trip Blank	-	-	H2O	X	X			4		1								
SW-1	6/2/97	18:00	H2O ~~18:00~~					4		1								
SW-2	6/2/97	16:30	H2O					4		1								
SW-3	~~6/2/97~~	—	—					4		+								
MW-8D	6/2/97	15:50	H2O					4		1								

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	Chris Stephen	6/4/97	1045	on ice		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 08[illegible]

Page 1 of 1

Client: Camp Dresser & McKee Project ID: Buncombe Cnty Date: 6/3/97 Report To: Jim Grant Raleigh NC.

Address: Raleigh NC. P.O. Number: Turnaround:

Address: Contact: Job Number:

Quote #: Phone: Invoice To: Same as above.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: H_2O_3	Preservatives	Preservatives	Analyses: App. I VOC	Analyses: App. I. Metals	Comments: Please specify any special reporting requirements
										G175-10
mw 1	6/3/97	1420	H_2O					4	1	
mw 1 D	6/3/97	1540	H_2O					4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	6/3/97	17:00	[signature]	6/5/97	1016	on ice		

Appendix D
Analytical Data - September 3,1997

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29254	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29254	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	7.1	71

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29254	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0128**	0.0100	MG/L	6010A	9/17/97
Barium	**0.653**	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0020**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0145**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0425**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0520**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.0518**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: JMJ

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1D	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29255	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-1D	Date Analyzed:	9/13/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29255	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	4
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.2	102
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-1D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29255	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: rgd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29256	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29256	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.6	106
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-2	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29256	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-2D	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29257	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: NA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-2D
Client Project ID: CDM
Lab Sample ID: 29257
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	8.1	81

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-2D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29257	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0100**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-3
Client Project ID: CDM
Lab Sample ID: 29258
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-3	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29258	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.3	103
1,2-Dichloroethane-d4	10.0	10.4	104
Toluene-d8	10.0	7.9	79

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-3	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29258	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0148**	0.0100	MG/L	6010A	9/17/97
Barium	**0.631**	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0013**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0114**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0465**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	**0.0675**	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0572**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.107**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-4
Client Project ID: CDM
Lab Sample ID: 29259
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/14/97
Analyzed By: CKC
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-4	Date Analyzed:	9/14/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29259	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	10.0	100
1,2-Dichloroethane-d4	10.0	10.5	105
Toluene-d8	10.0	8.7	87

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-4	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29259	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0013**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-4D
Client Project ID: CDM
Lab Sample ID: 29260
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: WML
Date Collected: 9/3/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MM

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-4D	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29260	Date Collected:	9/3/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.7	97

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-4D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/3/97
Lab Sample ID:	29260	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0119**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0010**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5
Client Project ID: CDM
Lab Sample ID: 29261
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-5	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29261	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-5	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29261	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0127**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0010**	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0642**	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5D
Client Project ID: CDM
Lab Sample ID: 29262
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-5D
Client Project ID: CDM
Lab Sample ID: 29262
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.6	96
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: _____

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-5D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29262	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Dup. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29268	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Dup. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29268	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.4	94
1,2-Dichloroethane-d4	10.0	9.3	93
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	Dup. #1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29268	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: CDM
Lab Sample ID: 29264
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-6
Client Project ID: CDM
Lab Sample ID: 29264
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries

Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	9.4	94
Toluene-d8	10.0	8.2	82

Comments:
All results are corrected for dilution.

Reviewed by: Ma

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-6	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29264	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-7	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29265	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-7
Client Project ID: CDM
Lab Sample ID: 29265
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.0	90
1,2-Dichloroethane-d4	10.0	10.0	100
Toluene-d8	10.0	6.3	63

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-7	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29265	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0174**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	**0.0038**	0.0010	MG/L	6010A	9/17/97
Chromium	**0.0441**	0.0100	MG/L	6010A	9/17/97
Cobalt	**0.0235**	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	**0.0530**	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	**0.0815**	0.0400	MG/L	6010A	9/17/97
Zinc	**0.0594**	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: cgd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29266	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: M

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29266	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.7	97
Toluene-d8	10.0	9.1	91

Comments:
All results are corrected for dilution.

Reviewed by: MA

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-8	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29266	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0107**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: MW-8D
Client Project ID: CDM
Lab Sample ID: 29267
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: CKC
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	MW-8D	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29267	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.5	95
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: MN

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	MW-8D	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29267	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: aad

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29269	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29269	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.8	98
1,2-Dichloroethane-d4	10.0	9.7	97
Toluene-d8	10.0	9.5	95

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	SW-1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29269	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-2	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29270	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	SW-2	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	CKC
Lab Sample ID:	29270	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.9	99
1,2-Dichloroethane-d4	10.0	9.6	96
Toluene-d8	10.0	9.6	96

Comments:
All results are corrected for dilution.

Reviewed by: MW

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	SW-2	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29270	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	**0.0114**	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: ugd

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29271	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	Trip Blank	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29271	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.3	93
1,2-Dichloroethane-d4	10.0	9.9	99
Toluene-d8	10.0	9.9	99

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID: E.B. #1
Client Project ID: CDM
Lab Sample ID: 29263
Lab Project ID: G175-13
Matrix: Water

Date Analyzed: 9/15/97
Analyzed By: WML
Date Collected: 9/4/97
Date Received: 9/6/97
Dilution: 1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acetone	25	BQL
Acrolein	50	BQL
Acrylonitrile	50	BQL
Benzene	1	BQL
Bromobenzene	1	BQL
Bromochloromethane	1	BQL
Bromodichloromethane	1	BQL
Bromoform	1	BQL
Bromomethane	1	BQL
2-Butanone	25	BQL
n-Butylbenzene	1	BQL
sec-Butylbenzene	1	BQL
tert-Butylbenzene	1	BQL
Carbon disulfide	1	BQL
Carbon tetrachloride	1	BQL
Chlorobenzene	1	BQL
Chloroethane	1	BQL
2-Chloroethyl vinyl ether	5	BQL
Chloroform	1	BQL
Chloromethane	1	BQL
2-Chlorotoluene	1	BQL
4-Chlorotoluene	1	BQL
Dibromochloromethane	1	BQL
1,2-Dibromo-3-chloropropane	5	BQL
Dibromomethane	1	BQL
1,2-Dibromoethane (EDB)	1	BQL
1,2-Dichlorobenzene	1	BQL
1,3-Dichlorobenzene	1	BQL
1,4-Dichlorobenzene	1	BQL
trans-1,4-Dichloro-2-butene	5	BQL
1,1-Dichloroethane	1	BQL
1,1-Dichloroethene	1	BQL
1,2-Dichloroethane	1	BQL
cis-1,2-Dichloroethene	1	BQL
trans-1,2-dichloroethene	1	BQL
1,2-Dichloropropane	1	BQL
1,3-Dichloropropane	1	BQL
2,2-Dichloropropane	1	BQL
1,1-Dichloropropene	1	BQL
cis-1,3-Dichloropropene	1	BQL
trans-1,3-Dichloropropene	1	BQL
Dichlorodifluoromethane	5	BQL
Diisopropyl ether (DIPE)	1	BQL
Ethylbenzene	1	BQL
Hexachlorobutadiene	1	BQL
2-Hexanone	5	BQL
Iodomethane	1	BQL
Isopropylbenzene	1	BQL

Reviewed by: WL

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GCMS 8260B

Client Sample ID:	E.B. #1	Date Analyzed:	9/15/97
Client Project ID:	CDM	Analyzed By:	WML
Lab Sample ID:	29263	Date Collected:	9/4/97
Lab Project ID:	G175-13	Date Received:	9/6/97
Matrix:	Water	Dilution:	1.0

Compound	Quantitation Limit (ug/L)	Result (ug/L)
4-Isopropyltoluene	1	BQL
Methylene chloride	5	BQL
4-Methyl-2-pentanone	5	BQL
Methyl-tert-butyl ether (MTBE)	1	BQL
Naphthalene	1	BQL
n-Propyl benzene	1	BQL
Styrene	1	BQL
1,1,1,2-Tetrachloroethane	1	BQL
1,1,2,2-Tetrachloroethane	1	BQL
Tetrachloroethene	1	BQL
Toluene	1	BQL
1,2,3-Trichlorobenzene	1	BQL
1,2,4-Trichlorobenzene	1	BQL
Trichloroethene	1	BQL
1,1,1-Trichloroethane	1	BQL
1,1,2-Trichloroethane	1	BQL
Trichlorofluoromethane	1	BQL
1,2,3-Trichloropropane	1	BQL
1,2,4-Trimethylbenzene	1	BQL
1,3,5-Trimethylbenzene	1	BQL
Vinyl chloride	1	BQL
m-,p-Xylene	2	BQL
o-Xylene	1	BQL

Surrogate Spike Recoveries Compound	Spike Added (ug/L)	Surrogate Result (ug/L)	%Rec
Bromofluorobenzene	10.0	9.5	95
1,2-Dichloroethane-d4	10.0	10.3	103
Toluene-d8	10.0	9.8	98

Comments:
All results are corrected for dilution.

Reviewed by: [illegible]

Flags: BQL = Below Quantitation Limit

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Appendix 1 Metals

Client Sample ID:	E.B. #1	Analyzed By:	JMF
Client Project ID:	CDM	Date Collected:	9/4/97
Lab Sample ID:	29263	Date Received:	9/6/97
Lab Project ID:	G175-13	Matrix:	Water

Metals	Result	Quantitation Limit	Units	Procedure	Date Analyzed
Antimony	BQL	0.0300	MG/L	6010A	9/17/97
Arsenic	BQL	0.0100	MG/L	6010A	9/17/97
Barium	BQL	0.500	MG/L	6010A	9/17/97
Beryllium	BQL	0.0020	MG/L	6010A	9/17/97
Cadmium	BQL	0.0010	MG/L	6010A	9/17/97
Chromium	BQL	0.0100	MG/L	6010A	9/17/97
Cobalt	BQL	0.0100	MG/L	6010A	9/17/97
Copper	BQL	0.200	MG/L	6010A	9/17/97
Lead	BQL	0.0100	MG/L	6010A	9/17/97
Nickel	BQL	0.0500	MG/L	6010A	9/17/97
Selenium	BQL	0.0200	MG/L	6010A	9/17/97
Silver	BQL	0.0100	MG/L	6010A	9/17/97
Thallium	BQL	0.0100	MG/L	6010A	9/17/97
Vanadium	BQL	0.0400	MG/L	6010A	9/17/97
Zinc	BQL	0.0500	MG/L	6010A	9/17/97

Comments
BQL = Below Quantitation Limits

Reviewed By: [illegible]

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Client: CDM
Address: 5400 GLENWOOD AVE
Address: RALEIGH NC.
Quote #:

Project ID:
P.O. Number:
Contact: TIM GRANT
Phone: 919-787-5620

Date:
Turnaround:
Job Number:

Report To: TIM GRANT
CDM
RALEIGH, NC.
Invoice To: S.A.A.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3	Analyses: SW 846 8260	Analyses: App. #1 METALS	Comments: Please specify any special reporting requirements
mw-1	9/3/97	0900	GRND H2O	X	X	4	1	
mw-1D	9/3/97	10:55				4	1	
mw-2	1/3/97	11:55				4	1	
mw-2D	1/3/97	13:05				4	1	
mw-3	1/3/97	15:00				4	1	
mw-4	1/3/97	16:05				4	1	
mw-4D	9/3/97	17:05				4	1	
mw-5	1/4/97	09:25				4	1	
mw-5D	9/4/97	09:55				4	1	
E.B. #1	—	—				4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	9/5/97	12:00	[signature]	9/6/97	1040	ONICE		

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# [illegible]

Page 2 of 2

Client: CDM
Address: 5400 GLENWOOD AVE
Address: RALEIGH, N.C.
Quote #:

Project ID:
P.O. Number:
Contact: TIM GRANT
Phone: 919-787-5620

Date:
Turnaround:
Job Number:

Report To: TIM GRANT
CDM
RALEIGH, N.C.
Invoice To: S.A.A.

Sample ID	Date	Time	Matrix	Preservatives: HCl	Preservatives: HNO3	Analyses: SW 846 8260	Analyses: APP. 1 METALS	Comments: Please specify any special reporting requirements
mw-6	9/4/97	11:15		X	X	4	1	
mw-7	9/4/97	12:20				4	1	
mw-8	9/4/97	16:50				4	1	
mw-8D	9/4/97	16:15				4	1	
Dup. #1	—	—				4	1	
Trip Blank	—	—				2		
SW-1	9/4/97	17:35				4	1	
SW-2	9/4/97	17:55				4	1	

Relinquished By	Date	Time	Received By	Date	Time	Temperature	Sampled By	Airbill #
[signature]	9/5/97	12:00	[signature]	9/6/97	1040	ON ICE		

ORIGINAL

Appendix E
Statistical Calculations

		Chromium				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.25	0.0141	0.005	0.0145	0.2836	0.0709
MW-2	0.13	0.005	0.005	0.005	0.145	0.03625
MW-3	0.84	0.0216	0.0102	0.0114	0.8832	0.2208
MW-4	0.47	0.0165	0.0117	0.005	0.5032	0.1258
MW-5	0.22	0.005	0.005	0.005	0.235	0.05875
MW-6	0.54	0.0184	0.005	0.005	0.5684	0.1421
MW-7	0.94	0.0541	0.005	0.0441	1.0432	0.2608
MW-8	0.48	0.0109	0.005	0.005	0.5009	0.125225
				x.. =	4.1625	
				x..(mean)	0.130078	
SS wells =	0.713044		with 7 degrees of freedom			
	0.54145					
	0.171594					
SS total =	2.467073					
	1.925623		with 31 degrees of freedom			
SS error =	1.754028		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.171594	7	0.024513	0.335412	2.42	
Error (withi	1.754028	24	0.073085			
Total	1.925623	31				

		Cobalt				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.1	0.0275	0.005	0.0425	0.175	0.04375
MW-2	0.083	0.0132	0.005	0.005	0.1062	0.02655
MW-3	0.16	0.882	0.0483	0.0465	1.1368	0.2842
MW-4	0.12	0.005	0.005	0.005	0.135	0.03375
MW-5	0.048	0.0124	0.005	0.005	0.0704	0.0176
MW-6	0.16	0.0493	0.0408	0.005	0.2551	0.063775
MW-7	0.27	0.0358	0.005	0.005	0.3158	0.07895
MW-8	0.12	0.005	0.005	0.005	0.135	0.03375
				x.. =	2.3293	
				x..(mean)	0.072791	
SS wells =	0.385107		with 7 degrees of freedom			
	0.169551					
	0.215556					
SS total =	0.963129					
	0.793578		with 31 degrees of freedom			
SS error =	0.578022		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.215556	7	0.030794	1.278584	2.42	
Error (withi	0.578022	24	0.024084			
Total	0.793578	31				

		Vanadium				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.42	0.0456	0.02	0.052	0.5376	0.1344
MW-2	0.13	0.02	0.02	0.02	0.19	0.0475
MW-3	1	0.0925	0.0634	0.0572	1.2131	0.303275
MW-4	0.57	0.02	0.02	0.02	0.63	0.1575
MW-5	0.28	0.0731	0.0553	0.0642	0.4726	0.11815
MW-6	0.68	0.0626	0.02	0.02	0.7826	0.19565
MW-7	0.04	0.0845	0.02	0.0815	0.226	0.0565
MW-8	0.55	0.02	0.02	0.02	0.61	0.1525
				x.. =	4.6619	
				x..(mean)	0.145684	
SS wells =	0.863154		with 7 degrees of freedom			
	0.679166					
	0.183988					
SS total =	2.419156					
	1.73999		with 31 degrees of freedom			
SS error =	1.556002		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.183988	7	0.026284	0.405408	2.42	
Error (withi	1.556002	24	0.064833			
Total	1.73999	31				

		Zinc				
		Anova One-Way Test				
Well	Event 1	Event 2	Event 3	Event 4	Well total	Mean
MW-1(bac	0.29	0.0773	0.0025	0.0518	0.4216	0.1054
MW-2	0.45	0.0566	0.0025	0.0025	0.5116	0.1279
MW-3	0.63	0.18	0.141	0.107	1.058	0.2645
MW-4	0.31	0.087	0.0025	0.0025	0.402	0.1005
MW-5	0.18	0.0667	0.0025	0.0025	0.2517	0.062925
MW-6	0.53	0.0732	0.0025	0.0025	0.6082	0.15205
MW-7	0.74	0.127	0.0025	0.0594	0.9289	0.232225
MW-8	0.49	0.0746	0.0025	0.0025	0.5696	0.1424
				x.. =	4.7516	
				x..(mean)	0.148488	
SS wells =	0.835252		with 7 degrees of freedom			
	0.705553					
	0.129699					
SS total =	1.998866					
	1.293313		with 31 degrees of freedom			
SS error =	1.163614		with 24 degrees of freedom			
Source of	Sum of sq	Degrees o	Mean squ	F statistic	(Tab) f statistic	
Between	0.129699	7	0.018528	0.382156	2.42	
Error (withi	1.163614	24	0.048484			
Total	1.293313	31				

			Arsenic														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-3		MW-5		MW-6		MW-7		MW-8						
1.00	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5					
2.00	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5	0.01	8.5					
3.00	0.01	8.5	0.02	24	0.01	8.5	0.0157	22	0.0139	21	0.01	8.5					
4.00	0.01	19	0.01	20	0.01	18	0.01	8.5	0.0174	23	0.0107	17					
Sum of Ranks		44.5		61		43.5		47.5		61		42.5					
Average Ranks		11.125		15.25		10.9		11.9		15.3		10.6					
K= (number of wells)				6													
N = (total number of observations)				24													
H =	600	0.02	495.0625		930.25		473.0625		564.0625		930.25		451.5625				
			76.885														
		H=	1.885														
tied observations		4080	13800														
		0.7043															
tied adjustment		2.6762					H (tabulated) = 11.07										

			Barium														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	1.90	29	1.50	26.5	2.80	31	1.8	28	0.64	22	2.4	30	3.6	32	1.5	26.5	
2.00	0.00	9.5	0.00	9.5	1.02	25	0	9.5	0	9.5	0.58	20	0	9.5	0	9.5	
3.00	0.00	9.5	0.00	9.5	0.73	24	0	9.5	0	9.5	0.57	19	0	9.5	0	9.5	
4.00	0.65	23	0.00	9.5	0.63	21	0	9.5	0	9.5	0	9.5	0	9.5	0	9.5	
Sum of Ranks		71		55		101		56.5		50.5		78.5		60.5		55	
Average Ranks		17.75		13.75		25.3		14.1		12.6		19.6		15.1		13.75	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	1260.25		756.25		2550.25		798.0625		637.563		1540.563		915.0625		756.25
			104.7074														
		H=	5.707386														
tied observations		5814	6	5820	32736												
		0.8222															
tied adjustment		6.9415					H (tabulated) = 14.07										

			Beryllium														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.00	12.5	0.01	28	0.01	29	0.0053	27	0.0048	26	0.014	31	0.015	32	0.013	30	
2.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0.0026	25	0	12.5	0	12.5	
3.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0	12.5	0	12.5	0	12.5	
4.00	0.00	12.5	0.00	12.5	0.00	12.5	0	12.5	0	12.5	0	12.5	0	12.5	0	12.5	
Sum of Ranks		50		65.5		66.5		64.5		63.5		81		69.5		67.5	
Average Ranks		12.5		16.375		16.6		16.1		15.9		20.3		17.4		16.875	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	625		1072.563		1105.563		1040.063		1008.06		1640.25		1207.563		1139.063
			100.4332														
		H=	1.433239														
tied observations		13800	0	13800	32736												
		0.5784															
tied adjustment		2.4777					H (tabulated) = 14.07										

			Lead														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.02	25.5	0.05	28	0.06	30	0.044	27	0.023	25.5	0.056	29	0.066	32	0.06	31	
2.00	0.01	22	0.00	11	0.02	24	0	11	0	11	0	11	0	11	0	11	
3.00	0.00	11	0.00	11	0.00	11	0	11	0	11	0	11	0	11	0	11	
4.00	0.01	23	0.00	11	0.00	11	0	11	0	11	0	11	0	11	0	11	
Sum of Ranks		81.5		61		76		60		58.5		62		65		64	
Average Ranks		20.375		15.25		19		15		14.6		15.5		16.3		16	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	1660.563		930.25		1444		900		855.563		961		1056.25		1024
			100.3594														
		H=	1.359375														
tied observations		9240	6	9246	32736												
		0.7176															
tied adjustment		1.8944					H (tabulated) = 14.07										

			Nickel														
			Kruskal-Wallis Test														
Event	MW-1 (background		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		
1.00	0.18	27	0.14	26	0.36	31	0.26	30	0.11	24	0.22	29	0.67	32	0.2	28	
2.00	0.00	10.5	0.00	10.5	0.08	23	0	10.5	0	10.5	0	10.5	0.136	25	0	10.5	
3.00	0.00	10.5	0.00	10.5	0.00	10.5	0	10.5	0	10.5	0	10.5	0	10.5	0	10.5	
4.00	0.00	10.5	0.00	10.5	0.07	22	0	10.5	0	10.5	0	10.5	0.053	21	0	10.5	
Sum of Ranks		58.5		57.5		86.5		61.5		55.5		60.5		88.5		59.5	
Average Ranks		14.625		14.375		21.6		15.4		13.9		15.1		22.1		14.875	
K= (number of wells)				8													
N = (total number of observations)				32													
H =	1056	0.0114	855.5625		826.5625		1870.563		945.5625		770.063		915.0625		1958.063		885.0625
			102.5739														
		H=	3.573864														
tied observations		7980	0	7980	32736												
		0.7562															
tied adjustment		4.7259					H (tabulated) = 14.07										

			Arsenic								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-2D		MW-4D						
1.00	0.00	5.2	0.00	5.2	0.00	5.2					
2.00	0.00	5.2	0.00	5.2	0.00	5.2					
3.00	0.00	5.2	0.00	5.2	0.00	5.2					
4.00	0.00	5.2	0.01	11	0.01	12					
Sum of Ranks		20.8		26.6		27.6					
Average Ranks		5.2		6.65		6.9					
K= (number of wells)				3							
N = (total number of observations)				12							
H =	156	0.076923077	108.16		176.89		190.44				
			36.57615								
		H=	-2.42385								
tied observations		990	1716								
		0.423076923									
tied adjustment		-5.729090909					H (tabulated) = 5.991				

			Chromium								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-2D								
1.00	0.03	8	0.02	7							
2.00	0.00	3.5	0.00	3.5							
3.00	0.00	3.5	0.00	3.5							
4.00	0.00	3.5	0.00	3.5							
Sum of Ranks		18.5		17.5							
Average Ranks		4.625		4.375							
K= (number of wells)				2							
N = (total number of observations)				8							
H =	72	0.166666667	85.5625		76.5625						
			27.02083								
		H=	0.020833								
tied observations		210	504								
		0.583333333									
tied adjustment		0.035714286					H (tabulated) = 3.841				

			Zinc								
			Kruskal-Wallis Test								
Event	MW-1D (deep background well)		MW-4D		MW-8D						
1.00	0.60	12	0.15	11	0.06	9					
2.00	0.07	10	0.00	4.5	0.00	4.5					
3.00	0.00	4.5	0.00	4.5	0.00	4.5					
4.00	0.00	4.5	0.00	4.5	0.00	4.5					
Sum of Ranks		31		24.5		22.5					
Average Ranks		7.75		6.125		5.625					
K= (number of wells)				3							
N = (total number of observations)				12							
H =	156	0.076923077	240.25		150.0625		126.5625				
			39.75962								
		H=	0.759615								
tied observations		504	1716								
		0.706293706									
tied adjustment		1.07549505					H (tabulated) = 5.991				