VRP# 4061202

MUNDELL & ASSOCIATES, INC.

429 East Vermont Street, Suite 200, Indianapolis, Indiana 46202-3688
Phone: 317-630-9060, Fax: 317-630-9065, email: info@MundellAssociates.com

June 30, 2004

Mr. Daniel P. McInerny, Esq.
Bose McKinney & Evans
2700 First Indiana Plaza
135 North Pennsylvania Street
Indianapolis, IN 46204

RECEIVED
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VOLUNTARY CLEANUP

Re: **Keramida Split Groundwater Sampling Event – March 2004**
Michigan Meadows Apartments
3800 West Michigan Street
Indianapolis, IN
MUNDELL Project No.: M01046

Dear Mr. McInerny:

MUNDELL & ASSOCIATES, INC. (MUNDELL) is pleased to submit this letter summarizing the groundwater split sampling event performed at the above-referenced property (Site) with Keramida Environmental Inc. (Keramida). The following summarizes the scope of services and the results of the sampling.

Background

The Site has been under investigation in order to evaluate the off-site impacts of the former GM AGT Plant 10, located north of the Michigan Meadows property. As a part of the *Phase II* investigation for the *Remediation Work Plan (RWP)* (March 2002; October 2002), Keramida conducted off-site subsurface sampling for volatile organic chemicals (VOCs), including testing at 3800 to 3823 West Michigan Street and the surrounding areas. Off-Site groundwater samples taken from both the shallow and deep groundwater system indicated chlorinated solvent groundwater impacts (most notably cis-1,2-Dichloroethene (cis-1,2-DCE) and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals.

March 2004 Groundwater Sampling

On March 11, 2004, four monitoring wells (MW-165S, MW-165D, MW-166S, MW-166D) were sampled by Keramida. MUNDELL staff was present on Site to witness the sampling and split the samples. The total well depths and the depth to the top of groundwater were measured, and are summarized in Table 1.

Low Flow Methodology

The monitoring wells were sampled by Keramida using the low flow sampling method (Micropurge system). The Micropurge system included a pneumatic pump set up, which enabled uniform purging. The 'Hydrolab' water quality multiprobe was used to measure parameters such as dissolved oxygen, specific conductivity, temperature, ORP (Oxidation Reduction Potential), and pH of the

groundwater. Successive parameter readings were taken, and the sample was collected only when uniform consecutive readings were obtained (stabilized).

Sample Collection and Analysis

The groundwater samples were collected and placed into amber glass vials with HCL as a preservative. The samples were then immediately placed on ice for transport to the laboratory. MUNDELL split the groundwater samples taken from monitoring wells MW-165S, MW-165D, MW-166S, MW-166D for independent analysis.

The groundwater samples split with MUNDELL were analyzed for VOCs (Volatile Organic Compounds) via U.S. EPA SW846 Method 8260 by Pace Analytical Laboratories in Indianapolis, Indiana. The analytical results of the groundwater sample split with MUNDELL are presented in Appendix A.

Sample Analysis Results

The groundwater sample taken from the deep groundwater system (MW-165D) indicated dissolved chlorinated solvent groundwater impacts (most notably cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals. A vinyl chloride concentration of 720 ug/l and a cis-1,2-DCE concentration of 2,300 ug/l were exhibited. In addition, trans-1,2-Dichloroethene was detected at a concentration of 17.0 ug/l.

The groundwater sample taken from the deep groundwater system (MW-166D) indicated dissolved chlorinated solvent groundwater impacts (most notably cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals. A vinyl chloride concentration of 440 ug/l and a cis-1,2-DCE concentration of 2,100 ug/l were exhibited. In addition, lower concentrations of 1,1-Dichloroethene (5.9 ug/l) and trans-1,2-Dichloroethene (8.5 ug/l), which were slightly above the laboratory reporting limits, were also detected.

The groundwater sample taken from the shallow groundwater system (MW-165S) indicated dissolved chlorinated solvent groundwater impacts (cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments. A vinyl chloride concentration of 12 ug/l and a cis-1,2-DCE concentration of 21 ug/l were exhibited. The vinyl chloride concentration exceeded the VRP Tier II Residential and Non-residential cleanup goals, but the cis-1,2-DCE concentration was well below the VRP Tier II Residential and Non-residential cleanup goals.

The groundwater sample taken from the shallow groundwater system (MW-166S) indicated dissolved chlorinated solvent groundwater impacts (cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments. A vinyl chloride concentration of 5.8 ug/l and a cis-1,2-DCE concentration of 110 ug/l were exhibited. Both the vinyl chloride and the cis 1,2-DCE concentrations exceeded the VRP Tier II Residential cleanup goals, but not the VRP Tier II Non-residential cleanup goals.

If you should have any questions regarding the enclosed results, please do not hesitate to contact us (317-630-9060).

Sincerely,
MUNDELL & ASSOCIATES, INC.

Leena A. Lothe
Staff Environmental Engineer

John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

/lal

Attachments: Appendix A, Groundwater Sample Analytical Results

TABLES

Table 1. Groundwater Level Data

Table 1.
Groundwater Level Data
Keramida Environmental, Inc. March 2004 Sampling Event
Michigan Meadows Apartments
3800 West Michigan Streeet
Indianapolis, Indiana

Well I.D.	Total Well Depth, ft	Depth to Top of Groundwater, ft
MW-165D	46.85	13.71
MW-166D	50.3	14.35
MW- 165S	19.75	13.93
MW-166S	19.50	14.61

APPENDIX A

Groundwater Sample Analytical Results

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

March 16, 2004

Mr. Jason Loughead
Mundell & Associates, Inc.
429 E. Vermont St, Suite 200
Indianapolis, IN 46202

RE: Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Dear Mr. Loughead:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2004. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cheryl Grum
cgrum@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227126 Project Sample Number: 5033966-001 Date Collected: 03/11/04 09:30
Client Sample ID: TR-BL Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	74-87-3		
Vinyl chloride	ND	ug/l	2.0	1.0	03/12/04 12:24	HKB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	594-20-7		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	156-59-2		
Chloroform	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	100-41-4		
m&p-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 12:24	HKB	98-82-8		

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227126 | Project Sample Number: 5033966-001 | Date Collected: 03/11/04 09:30
Client Sample ID: TR-BL | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 12:24	HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 12:24	HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 12:24	HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 12:24	HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 12:24	HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 12:24	HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 12:24	HEB	1330-20-7		
Dibromofluoromethane (S)	100	%		1.0	03/12/04 12:24	HEB	1868-53-7		
Toluene-d8 (S)	93	%		1.0	03/12/04 12:24	HEB	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	03/12/04 12:24	HEB	460-00-4		

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227134 | Project Sample Number: 5033966-002 | Date Collected: 03/11/04 09:45
Client Sample ID: MW-166D | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	74-87-3		
Vinyl chloride	440	ug/l	50.	25.0	03/15/04 20:51	HEB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-09-2		
1,1-Dichloroethene	5.9	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-35-4		
trans-1,2-Dichloroethene	8.5	ug/l	5.0	1.0	03/12/04 12:56	HEB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	594-20-7		
cis-1,2-Dichloroethene	2100	ug/l	120	25.0	03/15/04 20:51	HEB	156-59-2		
Chloroform	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	100-41-4		
m&p-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 12:56	HEB	98-82-8		

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7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227134 | Project Sample Number: 5033966-002 | Date Collected: 03/11/04 09:45
Client Sample ID: MW-166D | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 12:56	HKB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 12:56	HKB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 12:56	HKB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 12:56	HKB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 12:56	HKB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 12:56	HKB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 12:56	HKB	1330-20-7		
Dibromofluoromethane (S)	102	%		1.0	03/12/04 12:56	HKB	1868-53-7		
Toluene-d8 (S)	96	%		1.0	03/12/04 12:56	HKB	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	03/12/04 12:56	HKB	460-00-4		

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Phone: 317.875.5694
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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227142 | Project Sample Number: 5033966-003 | Date Collected: 03/11/04 10:15
Client Sample ID: MW-166S | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	74-87-3		
Vinyl chloride	5.8	ug/l	2.0	1.0	03/12/04 13:29	HKB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	594-20-7		
cis-1,2-Dichloroethene	110	ug/l	5.0	1.0	03/15/04 19:47	HKB	156-59-2	1	
Chloroform	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	100-41-4		
m&p-Xylene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	98-82-8		

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Phone: 317.875.5894
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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227142 | Project Sample Number: 5033966-003 | Date Collected: 03/11/04 10:15
Client Sample ID: MW-166S | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 13:29	HKB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 13:29	HKB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 13:29	HKB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 13:29	HKB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 13:29	HKB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 13:29	HKB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 13:29	HKB	1330-20-7		
Dibromofluoromethane (S)	107	%		1.0	03/12/04 13:29	HKB	1868-53-7		
Toluene-d8 (S)	94	%		1.0	03/12/04 13:29	HKB	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	03/12/04 13:29	HKB	460-00-4		

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227159 | Project Sample Number: 5033966-004 | Date Collected: 03/11/04 10:45
Client Sample ID: MW-165D | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	74-87-3		
Vinyl chloride	720	ug/l	50.	25.0	03/15/04 21:23	HKB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-35-4		
trans-1,2-Dichloroethene	17.	ug/l	5.0	1.0	03/12/04 14:01	HKB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	594-20-7		
cis-1,2-Dichloroethene	2300	ug/l	120	25.0	03/15/04 21:23	HKB	156-59-2		
Chloroform	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	100-41-4		
m&p-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	98-82-8		

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227159 | Project Sample Number: 5033966-004 | Date Collected: 03/11/04 10:45
Client Sample ID: MW-16SD | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 14:01	HKB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 14:01	HKB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 14:01	HKB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 14:01	HKB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 14:01	HKB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 14:01	HKB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 14:01	HKB	1330-20-7		
Dibromofluoromethane (S)	101	%		1.0	03/12/04 14:01	HKB	1868-53-7		
Toluene-d8 (S)	96	%		1.0	03/12/04 14:01	HKB	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	03/12/04 14:01	HKB	460-00-4		

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503327167 | Project Sample Number: 5033966-005 | Date Collected: 03/11/04 11:15
Client Sample ID: MW-165S | Matrix: Water | Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	74-87-3		
Vinyl chloride	12.	ug/l	2.0	1.0	03/12/04 14:33	HKB	75-01-4	2	
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	594-20-7		
cis-1,2-Dichloroethene	21.	ug/l	5.0	1.0	03/15/04 20:19	HKB	156-59-2	1	
Chloroform	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	100-41-4		
m&p-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	98-82-8		

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227167 Project Sample Number: 5033966-005 Date Collected: 03/11/04 11:15
Client Sample ID: MW-165S Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 14:33	HKB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 14:33	HKB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 14:33	HKB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 14:33	HKB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 14:33	HKB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 14:33	HKB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 14:33	HKB	1330-20-7		
Dibromofluoromethane (S)	100	%		1.0	03/12/04 14:33	HKB	1868-53-7		
Toluene-d8 (S)	97	%		1.0	03/12/04 14:33	HKB	2037-26-5		
4-Bromofluorobenzene (S)	98	%		1.0	03/12/04 14:33	HKB	460-00-4		

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	Sample reported from second analysis due to possible carryover in first analysis. JLF 3/16/04.
[2]	Hits confirmed as positive values by second anlaysis ran on 3/15/04 at 20:19.

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

QC Batch: 66569 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

METHOD BLANK: 503235582
Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Dichlorodifluoromethane	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	2.0	
Bromomethane	ug/l	ND	5.0	
Chloroethane	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
2,2-Dichloropropane	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
Chloroform	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Benzene	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

METHOD BLANK: 503235582
Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Ethylbenzene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	5.0	
o-Xylene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
1,2,3-Trichloropropane	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
2-Chloroethylvinyl ether	ug/l	ND	10.	
Acetone	ug/l	ND	25.	
2-Butanone (MEK)	ug/l	ND	10.	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Acrolein	ug/l	ND	50.	
Acrylonitrile	ug/l	ND	50.	
2-Hexanone	ug/l	ND	10.	
Vinyl acetate	ug/l	ND	10.	

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

METHOD BLANK: 503235582
Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Iodomethane	ug/l	ND	10.	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Carbon disulfide	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	100	
Ethyl methacrylate	ug/l	ND	100	
Xylene (Total)	ug/l	ND	10.	
Dibromofluoromethane (S)	%	107		
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	89		

LABORATORY CONTROL SAMPLE: 503235590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Dichlorodifluoromethane	ug/l	50.00	33.74	68	
Chloromethane	ug/l	50.00	40.62	81	
Vinyl chloride	ug/l	50.00	44.76	90	
Bromomethane	ug/l	50.00	55.01	110	
Chloroethane	ug/l	50.00	46.72	93	
Trichlorofluoromethane	ug/l	50.00	47.87	96	
Methylene chloride	ug/l	50.00	49.60	99	
1,1-Dichloroethene	ug/l	50.00	55.17	110	
trans-1,2-Dichloroethene	ug/l	50.00	51.78	104	
1,1-Dichloroethane	ug/l	50.00	51.66	103	
2,2-Dichloropropane	ug/l	50.00	49.60	99	
cis-1,2-Dichloroethene	ug/l	50.00	49.21	98	
Chloroform	ug/l	50.00	48.46	97	
Bromochloromethane	ug/l	50.00	56.28	113	
1,1,1-Trichloroethane	ug/l	50.00	52.28	105	
Carbon tetrachloride	ug/l	50.00	52.29	105	
1,1-Dichloropropene	ug/l	50.00	46.31	93	
Benzene	ug/l	50.00	48.32	97	
1,2-Dichloroethane	ug/l	50.00	53.14	106	
Trichloroethene	ug/l	50.00	49.14	98	
1,2-Dichloropropane	ug/l	50.00	50.88	102	

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

LABORATORY CONTROL SAMPLE: 503235590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Bromodichloromethane	ug/l	50.00	53.63	107	
Dibromomethane	ug/l	50.00	50.71	101	
Toluene	ug/l	50.00	46.56	93	
1,1,2-Trichloroethane	ug/l	50.00	51.40	103	
Tetrachloroethene	ug/l	50.00	36.99	74	
1,3-Dichloropropane	ug/l	50.00	50.02	100	
Dibromochloromethane	ug/l	50.00	46.40	93	
1,2-Dibromoethane (EDB)	ug/l	50.00	46.27	92	
Chlorobenzene	ug/l	50.00	50.03	100	
1,1,1,2-Tetrachloroethane	ug/l	50.00	46.69	93	
Ethylbenzene	ug/l	50.00	44.80	90	
m&p-Xylene	ug/l	100.00	93.11	93	
o-Xylene	ug/l	50.00	44.92	90	
Styrene	ug/l	50.00	43.98	88	
Bromoform	ug/l	50.00	44.62	89	
Isopropylbenzene (Cumene)	ug/l	50.00	42.94	86	
1,1,2,2-Tetrachloroethane	ug/l	50.00	42.88	86	
Bromobenzene	ug/l	50.00	49.93	100	
1,2,3-Trichloropropane	ug/l	50.00	34.62	69	
n-Propylbenzene	ug/l	50.00	48.13	96	
2-Chlorotoluene	ug/l	50.00	48.04	96	
1,3,5-Trimethylbenzene	ug/l	50.00	49.48	99	
4-Chlorotoluene	ug/l	50.00	48.86	98	
1,2,4-Trimethylbenzene	ug/l	50.00	52.75	106	
sec-Butylbenzene	ug/l	50.00	48.40	97	
tert-Butylbenzene	ug/l	50.00	44.10	88	
p-Isopropyltoluene	ug/l	50.00	48.04	96	
1,3-Dichlorobenzene	ug/l	50.00	49.32	99	
1,4-Dichlorobenzene	ug/l	50.00	51.79	104	
n-Butylbenzene	ug/l	50.00	51.97	104	
1,2-Dichlorobenzene	ug/l	50.00	52.82	106	
1,2-Dibromo-3-chloropropane	ug/l	50.00	54.23	108	
1,2,4-Trichlorobenzene	ug/l	50.00	62.84	126	
Hexachloro-1,3-butadiene	ug/l	50.00	54.91	110	
Naphthalene	ug/l	50.00	65.11	130	
1,2,3-Trichlorobenzene	ug/l	50.00	63.58	127	
trans-1,3-Dichloropropene	ug/l	50.00	46.61	93	

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

LABORATORY CONTROL SAMPLE: 503235590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
cis-1,3-Dichloropropene	ug/l	50.00	46.57	93	
Methyl-tert-butyl ether	ug/l	100.00	103.7	104	
Xylene (Total)	ug/l	150.00	138.0	92	
Dibromofluoromethane (S)				101	
Toluene-d8 (S)				94	
4-Bromofluorobenzene (S)				103	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503235608 503235616

Parameter	Units	503228868 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/l	0	50.00	58.60	59.08	117	118	1	
Benzene	ug/l	0	50.00	50.97	50.83	102	102	0	
Trichloroethene	ug/l	3.001	50.00	56.39	53.70	107	101	5	
Toluene	ug/l	0	50.00	49.42	48.67	99	97	2	
Chlorobenzene	ug/l	0	50.00	53.52	51.00	107	102	5	
Dibromofluoromethane (S)						103	106		
Toluene-d8 (S)						97	96		
4-Bromofluorobenzene (S)						105	103		

Date: 03/16/04

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

733249

Page: 1 of 1

Required Client Information: **Section A**

Company: 429 E Vermont Ave 200
Address: [illegible] 46202
Meadville Associates
Phone: [illegible]
Fax:

Required Client Information: **Section B**

Report To: [illegible]
Copy To: [illegible]
Invoice To: [illegible]
P.O.:
Project Name: Michigan Maritime
Project Number: M01046

Client Information (Check quote/contract):
Requested Due Date:
TAT: 3 [illegible]

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #:
Profile #:
Requested Analysis: VOC 8260

Section D Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / ,–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Remarks / Lab ID
1	T L	WT	[illegible]	9:30A	3				X					X
2	M 6	WT	3/1/64	9:45A	3				X					X
3	M 6	WT	3/1/64	10:15A	3				X					X
4	M 6	WT	3/1/64	10:45A	3				X					X
5	M 6	WT	3/1/64	11:15A	3				X					X
6														
7														
8														
9														
10														
11														
12														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					[illegible]	[illegible]	[illegible]	[illegible]	3/1/64	1245

SAMPLE CONDITION

Temp in °C	6
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]
SIGNATURE of SAMPLER: [illegible]
DATE Signed: (MM / DD / YY) 3/1/64