Terracon

January 31, 2012

1017 Roosevelt Road Southeast
Bemidji, Minnesota 56601

Attention: Mr. Kevin Caroline
Ph: 218-444-9407

Regarding: Drinking Water Supply Sample Results – 108 Lake Avenue Northeast (27)
Former Schmunk's Grocery
102 Lake Avenue Northeast
Bemidji, Minnesota 56601
Terracon Project No. 41037061
MPCA Site ID #: LEAK00004171

Dear Mr. Caroline:

Enclosed please find copies of the analytical results for the water samples collected on December 1, 2011 and January 19, 2012 from the new potable well installed on your rental property. This sampling was done by Terracon Consultants, Inc. (Terracon) on behalf of the Minnesota Pollution Control Agency (MPCA) as part of a petroleum tank release assessment being conducted in Bemidji, Minnesota.

The water samples were analyzed for compounds typically associated with petroleum products, including volatile organic compounds (VOCs) and gasoline range organics (GRO). The concentrations are reported in values of micrograms per liter (µg/L), which is the same as parts per billion. The column listed as "Report Limit" (reporting limit) identifies the lowest practical concentration detectable by the laboratory. If a value is reported with "ND" before it, this means that the compound was not detected above the reporting limit. Also, the laboratory report lists the results of a method blank, which is a lab test sample to confirm that no contaminants were introduced during the lab testing process.

The analysis of your water sample collected on December 1, 2011 detected three compounds, acetone, chloroform and tetrahydrafuran at concentrations of 37.5, 2.6 and 102 ug/l, respectively. These concentrations did not exceed the drinking water standards of 4,000 and 30 ug/l for acetone and chloroform, and a drinking water standard has not been established for tetrahydrafuran, so MPCA staff did not recommend that you alter the use of your water at that time pending the results from a follow up sample. Acetone is a common laboratory contaminant. Chloroform was likely produced during the well chlorination process. Tetrahydrafuran is a component of the PVC cleaner and glued used on the well casing.

A water sample collected by the drilling contractor on December 1, 2011 was analyzed for total coliform bacteria, nitrate and arsenic. Coliform bacteria and nitrate were not detected. Arsenic was detected at a concentration of 1.28 ug/l which is less than the drinking water standard of 10 ug/l. The analysis of the follow up water sample collected on January 11, 2012 for VOCs and GRO did not detect the target compounds for which the water sample was analyzed. Therefore, MPCA staff does not recommend changes in your usage of your water at this time. Additional sampling of your well is not planned.

Also attached are copies of the Minnesota Department of Health (MDH) Well and Boring Record for your new well, MDH Well and Boring Sealing Record for your old well and sewer line pressure test results.

If you have questions or concerns regarding the water sampling or the petroleum tank release assessment, please do not hesitate to contact our office at 651-770-1500. You may also contact the MPCA project leader, Ms. Arlene Furuseth at 218-846-8111. Thank you again for your cooperation with the petroleum tank release assessment.

Sincerely,
Terracon Consultants, Inc.

Paul J. Wiese, P.G.
Senior Project Manager

PJW:pjw \\WBL1\data\Projects\2003\41037061\LtrRptsFax\Results Letters\WellWaterLtr108 Lake 1-30-12.doc

cc: Arlene Furuseth, MPCA - DL, 714 Lake Avenue, Pz, Ste 220, Detroit Lakes, MN 56501

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 08, 2011

Mr. Paul Wiese
Terracon Environmental, Inc.
3535 Hoffman Road East
White Bear Lake, MN 55110

RE: Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Dear Mr. Wiese:
Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10177303001	**Caroline Well**	Water	12/01/11 12:10	12/02/11 13:00
10177303002	**Trip Blank**	Water		12/02/11 13:00

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SAMPLE ANALYTE COUNT

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10177303001	**Caroline Well**	WI MOD GRO	KT1	2
		EPA 6010	IP	2
		EPA 8260	ECB	73
10177303002	**Trip Blank**	WI MOD GRO	KT1	2
		EPA 8260	ECB	73

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PROJECT NARRATIVE

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Terracon Environmental, Inc.
Date: December 08, 2011

General Information:
2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Terracon Environmental, Inc.
Date: December 08, 2011

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Method: **EPA 8260**
Description: 8260 VOC
Client: Terracon Environmental, Inc.
Date: December 08, 2011

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Sample: Caroline Well **Lab ID: 10177303001** Collected: 12/01/11 12:10 Received: 12/02/11 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		12/05/11 13:38		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%	80-125	1		12/05/11 13:38	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	12/05/11 08:25	12/06/11 13:43	7440-38-2	
Total Hardness by 2340B	**273000**	ug/L	3300	1	12/05/11 08:25	12/06/11 13:43		
8260 VOC	Analytical Method: EPA 8260							
Acetone	**37.5**	ug/L	25.0	1		12/04/11 23:51	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/04/11 23:51	107-05-1	
Benzene	ND	ug/L	1.0	1		12/04/11 23:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/04/11 23:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/04/11 23:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/04/11 23:51	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/04/11 23:51	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/04/11 23:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/04/11 23:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/04/11 23:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/11 23:51	75-00-3	
Chloroform	**2.6**	ug/L	1.0	1		12/04/11 23:51	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/04/11 23:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/04/11 23:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/04/11 23:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/04/11 23:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/04/11 23:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/04/11 23:51	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/04/11 23:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/04/11 23:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/04/11 23:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/04/11 23:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/04/11 23:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/04/11 23:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		12/04/11 23:51	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/04/11 23:51	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/04/11 23:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/04/11 23:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/04/11 23:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/04/11 23:51	563-58-6	

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ANALYTICAL RESULTS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Sample: Caroline Well **Lab ID: 10177303001** Collected: 12/01/11 12:10 Received: 12/02/11 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/04/11 23:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/04/11 23:51	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/04/11 23:51	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/04/11 23:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/04/11 23:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/04/11 23:51	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/04/11 23:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/04/11 23:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/04/11 23:51	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		12/04/11 23:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	103-65-1	
Styrene	ND	ug/L	1.0	1		12/04/11 23:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/04/11 23:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/04/11 23:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/04/11 23:51	127-18-4	
Tetrahydrofuran	**102**	ug/L	10.0	1		12/04/11 23:51	109-99-9	
Toluene	ND	ug/L	1.0	1		12/04/11 23:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/04/11 23:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/04/11 23:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/04/11 23:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/04/11 23:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/11 23:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/04/11 23:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/04/11 23:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/04/11 23:51	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/04/11 23:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/04/11 23:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/04/11 23:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/04/11 23:51	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	75-125	1		12/04/11 23:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		12/04/11 23:51	17060-07-0	
Toluene-d8 (S)	94	%	75-125	1		12/04/11 23:51	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		12/04/11 23:51	460-00-4	

Sample: Trip Blank **Lab ID: 10177303002** Collected: Received: 12/02/11 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		12/05/11 11:50		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%	80-125	1		12/05/11 11:50	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Sample: Trip Blank **Lab ID: 10177303002** Collected: Received: 12/02/11 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/04/11 21:57	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		12/04/11 21:57	107-05-1	
Benzene	ND	ug/L	1.0	1		12/04/11 21:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/04/11 21:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/04/11 21:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/04/11 21:57	75-27-4	
Bromoform	ND	ug/L	4.0	1		12/04/11 21:57	75-25-2	
Bromomethane	ND	ug/L	4.0	1		12/04/11 21:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		12/04/11 21:57	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		12/04/11 21:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/04/11 21:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/04/11 21:57	67-66-3	
Chloromethane	ND	ug/L	4.0	1		12/04/11 21:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/04/11 21:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/04/11 21:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		12/04/11 21:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/04/11 21:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/04/11 21:57	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		12/04/11 21:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/04/11 21:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/04/11 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/04/11 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/04/11 21:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/04/11 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	1		12/04/11 21:57	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		12/04/11 21:57	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		12/04/11 21:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/04/11 21:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		12/04/11 21:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/04/11 21:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		12/04/11 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		12/04/11 21:57	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		12/04/11 21:57	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/04/11 21:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/04/11 21:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/04/11 21:57	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		12/04/11 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		12/04/11 21:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/04/11 21:57	1634-04-4	

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ANALYTICAL RESULTS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Sample: Trip Blank **Lab ID: 10177303002** Collected: Received: 12/02/11 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	4.0	1		12/04/11 21:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	103-65-1	
Styrene	ND	ug/L	1.0	1		12/04/11 21:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/04/11 21:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/04/11 21:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/04/11 21:57	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		12/04/11 21:57	109-99-9	
Toluene	ND	ug/L	1.0	1		12/04/11 21:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/04/11 21:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/04/11 21:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/04/11 21:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/04/11 21:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/04/11 21:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		12/04/11 21:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		12/04/11 21:57	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		12/04/11 21:57	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		12/04/11 21:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/04/11 21:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/04/11 21:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/04/11 21:57	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	75-125	1		12/04/11 21:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		12/04/11 21:57	17060-07-0	
Toluene-d8 (S)	95	%	75-125	1		12/04/11 21:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		12/04/11 21:57	460-00-4	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

QC Batch: GCV/8730 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 10177303001, 10177303002

METHOD BLANK: 1109736 Matrix: Water
Associated Lab Samples: 10177303001, 10177303002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	12/05/11 11:08	
a,a,a-Trifluorotoluene (S)	%	100	80-125	12/05/11 11:08	

LABORATORY CONTROL SAMPLE & LCSD: 1109737 1109738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	1060	1030	106	103	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				98	97	80-125			

MATRIX SPIKE SAMPLE: 1110219

Parameter	Units	10177269001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	1000	1060	106	80-120	
a,a,a-Trifluorotoluene (S)	%				97	80-125	

SAMPLE DUPLICATE: 1110220

Parameter	Units	10177269002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%	100	101	.4		

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

QC Batch: MPRP/30104 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 10177303001

METHOD BLANK: 1109557 Matrix: Water
Associated Lab Samples: 10177303001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	12/06/11 12:33	
Total Hardness by 2340B	ug/L	ND	3300	12/06/11 12:33	

LABORATORY CONTROL SAMPLE: 1109558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	964	96	80-120	
Total Hardness by 2340B	ug/L		62900			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1109559 1109560

Parameter	Units	10177269007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	12.8	1000	1000	960	967	95	95	80-120	.7	30	
Total Hardness by 2340B	ug/L	641000			626000	624000				.3		

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

QC Batch: MSV/18797 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10177303001, 10177303002

METHOD BLANK: 1109455 Matrix: Water
Associated Lab Samples: 10177303001, 10177303002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1-Dichloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,1-Dichloroethene	ug/L	ND	1.0	12/04/11 21:08	
1,1-Dichloropropene	ug/L	ND	1.0	12/04/11 21:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
1,2,3-Trichloropropane	ug/L	ND	4.0	12/04/11 21:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/04/11 21:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	12/04/11 21:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/04/11 21:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
1,2-Dichloroethane	ug/L	ND	1.0	12/04/11 21:08	
1,2-Dichloropropane	ug/L	ND	4.0	12/04/11 21:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/04/11 21:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
1,3-Dichloropropane	ug/L	ND	1.0	12/04/11 21:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
2,2-Dichloropropane	ug/L	ND	4.0	12/04/11 21:08	
2-Butanone (MEK)	ug/L	ND	4.0	12/04/11 21:08	
2-Chlorotoluene	ug/L	ND	1.0	12/04/11 21:08	
4-Chlorotoluene	ug/L	ND	1.0	12/04/11 21:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	12/04/11 21:08	
Acetone	ug/L	ND	25.0	12/04/11 21:08	
Allyl chloride	ug/L	ND	4.0	12/04/11 21:08	
Benzene	ug/L	ND	1.0	12/04/11 21:08	
Bromobenzene	ug/L	ND	1.0	12/04/11 21:08	
Bromochloromethane	ug/L	ND	1.0	12/04/11 21:08	
Bromodichloromethane	ug/L	ND	1.0	12/04/11 21:08	
Bromoform	ug/L	ND	4.0	12/04/11 21:08	
Bromomethane	ug/L	ND	4.0	12/04/11 21:08	
Carbon tetrachloride	ug/L	ND	1.0	12/04/11 21:08	
Chlorobenzene	ug/L	ND	1.0	12/04/11 21:08	
Chloroethane	ug/L	ND	1.0	12/04/11 21:08	
Chloroform	ug/L	ND	1.0	12/04/11 21:08	
Chloromethane	ug/L	ND	4.0	12/04/11 21:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/04/11 21:08	
cis-1,3-Dichloropropene	ug/L	ND	4.0	12/04/11 21:08	
Dibromochloromethane	ug/L	ND	1.0	12/04/11 21:08	
Dibromomethane	ug/L	ND	4.0	12/04/11 21:08	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

METHOD BLANK: 1109455 Matrix: Water

Associated Lab Samples: 10177303001, 10177303002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	12/04/11 21:08	
Dichlorofluoromethane	ug/L	ND	1.0	12/04/11 21:08	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	12/04/11 21:08	
Ethylbenzene	ug/L	ND	1.0	12/04/11 21:08	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/04/11 21:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/04/11 21:08	
m&p-Xylene	ug/L	ND	2.0	12/04/11 21:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/04/11 21:08	
Methylene Chloride	ug/L	ND	4.0	12/04/11 21:08	
n-Butylbenzene	ug/L	ND	1.0	12/04/11 21:08	
n-Propylbenzene	ug/L	ND	1.0	12/04/11 21:08	
Naphthalene	ug/L	ND	4.0	12/04/11 21:08	
o-Xylene	ug/L	ND	1.0	12/04/11 21:08	
p-Isopropyltoluene	ug/L	ND	1.0	12/04/11 21:08	
sec-Butylbenzene	ug/L	ND	1.0	12/04/11 21:08	
Styrene	ug/L	ND	1.0	12/04/11 21:08	
tert-Butylbenzene	ug/L	ND	1.0	12/04/11 21:08	
Tetrachloroethene	ug/L	ND	1.0	12/04/11 21:08	
Tetrahydrofuran	ug/L	ND	10.0	12/04/11 21:08	
Toluene	ug/L	ND	1.0	12/04/11 21:08	
trans-1,2-Dichloroethene	ug/L	ND	4.0	12/04/11 21:08	
trans-1,3-Dichloropropene	ug/L	ND	4.0	12/04/11 21:08	
Trichloroethene	ug/L	ND	1.0	12/04/11 21:08	
Trichlorofluoromethane	ug/L	ND	1.0	12/04/11 21:08	
Vinyl chloride	ug/L	ND	0.40	12/04/11 21:08	
Xylene (Total)	ug/L	ND	3.0	12/04/11 21:08	
1,2-Dichloroethane-d4 (S)	%	99	75-125	12/04/11 21:08	
4-Bromofluorobenzene (S)	%	99	75-125	12/04/11 21:08	
Dibromofluoromethane (S)	%	104	75-125	12/04/11 21:08	
Toluene-d8 (S)	%	95	75-125	12/04/11 21:08	

LABORATORY CONTROL SAMPLE: 1109456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.6	103	75-125	
1,1,1-Trichloroethane	ug/L	50	55.7	111	75-125	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	75-125	
1,1,2-Trichloroethane	ug/L	50	52.9	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	53.7	107	75-126	
1,1-Dichloroethane	ug/L	50	52.5	105	75-125	
1,1-Dichloroethene	ug/L	50	56.7	113	75-125	
1,1-Dichloropropene	ug/L	50	53.4	107	75-125	
1,2,3-Trichlorobenzene	ug/L	50	43.3	87	68-128	
1,2,3-Trichloropropane	ug/L	50	50.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	75-125	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

LABORATORY CONTROL SAMPLE: 1109456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	49.6	99	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	68-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	75-125	
1,2-Dichlorobenzene	ug/L	50	50.6	101	75-125	
1,2-Dichloroethane	ug/L	50	54.1	108	71-125	
1,2-Dichloropropane	ug/L	50	50.9	102	75-125	
1,3,5-Trimethylbenzene	ug/L	50	49.7	99	75-125	
1,3-Dichlorobenzene	ug/L	50	50.8	102	75-125	
1,3-Dichloropropane	ug/L	50	51.7	103	75-125	
1,4-Dichlorobenzene	ug/L	50	50.4	101	75-125	
2,2-Dichloropropane	ug/L	50	51.6	103	69-132	
2-Butanone (MEK)	ug/L	50	55.1	110	56-137	
2-Chlorotoluene	ug/L	50	50.9	102	75-125	
4-Chlorotoluene	ug/L	50	49.5	99	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	67-125	
Acetone	ug/L	125	140	112	41-130	
Allyl chloride	ug/L	50	53.8	108	59-130	
Benzene	ug/L	50	54.3	109	75-125	
Bromobenzene	ug/L	50	52.0	104	75-125	
Bromochloromethane	ug/L	50	55.3	111	75-125	
Bromodichloromethane	ug/L	50	52.3	105	75-125	
Bromoform	ug/L	50	49.9	100	75-125	
Bromomethane	ug/L	50	56.6	113	45-138	
Carbon tetrachloride	ug/L	50	52.8	106	75-125	
Chlorobenzene	ug/L	50	50.9	102	75-125	
Chloroethane	ug/L	50	54.0	108	72-125	
Chloroform	ug/L	50	55.2	110	75-125	
Chloromethane	ug/L	50	48.8	98	65-125	
cis-1,2-Dichloroethene	ug/L	50	56.1	112	75-125	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	75-125	
Dibromochloromethane	ug/L	50	51.1	102	75-125	
Dibromomethane	ug/L	50	53.0	106	75-125	
Dichlorodifluoromethane	ug/L	50	47.5	95	55-143	
Dichlorofluoromethane	ug/L	50	53.4	107	75-125	
Diethyl ether (Ethyl ether)	ug/L	50	56.1	112	75-125	
Ethylbenzene	ug/L	50	50.7	101	75-125	
Hexachloro-1,3-butadiene	ug/L	25	21.7	87	69-132	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	75-125	
m&p-Xylene	ug/L	100	101	101	75-125	
Methyl-tert-butyl ether	ug/L	50	53.8	108	75-125	
Methylene Chloride	ug/L	50	54.1	108	75-125	
n-Butylbenzene	ug/L	50	48.1	96	75-125	
n-Propylbenzene	ug/L	50	51.0	102	75-125	
Naphthalene	ug/L	50	44.6	89	74-129	
o-Xylene	ug/L	50	51.1	102	75-125	
p-Isopropyltoluene	ug/L	50	48.7	97	75-125	
sec-Butylbenzene	ug/L	50	49.5	99	75-125	
Styrene	ug/L	50	50.6	101	75-125	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

LABORATORY CONTROL SAMPLE: 1109456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.7	99	75-125	
Tetrachloroethene	ug/L	50	51.2	102	75-125	
Tetrahydrofuran	ug/L	500	570	114	64-128	
Toluene	ug/L	50	51.0	102	75-125	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	75-125	
trans-1,3-Dichloropropene	ug/L	50	48.2	96	75-125	
Trichloroethene	ug/L	50	54.1	108	75-125	
Trichlorofluoromethane	ug/L	50	57.0	114	75-125	
Vinyl chloride	ug/L	50	57.8	116	74-125	
Xylene (Total)	ug/L	150	152	102	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Dibromofluoromethane (S)	%			103	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE SAMPLE: 1111274

Parameter	Units	10177247002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	56.2	112	75-125	
1,1,1-Trichloroethane	ug/L	ND	50	64.0	128	75-128	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	55.2	110	75-125	
1,1,2-Trichloroethane	ug/L	ND	50	57.1	114	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	69.8	140	75-150	
1,1-Dichloroethane	ug/L	ND	50	59.5	119	75-125	
1,1-Dichloroethene	ug/L	ND	50	66.4	133	75-134	
1,1-Dichloropropene	ug/L	ND	50	62.3	125	75-131	
1,2,3-Trichlorobenzene	ug/L	ND	50	47.4	95	67-145	
1,2,3-Trichloropropane	ug/L	ND	50	55.2	110	75-125	
1,2,4-Trichlorobenzene	ug/L	ND	50	50.1	100	74-138	
1,2,4-Trimethylbenzene	ug/L	ND	50	56.2	111	75-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.8	102	68-129	
1,2-Dibromoethane (EDB)	ug/L	ND	50	56.4	113	75-125	
1,2-Dichlorobenzene	ug/L	ND	50	56.6	113	75-125	
1,2-Dichloroethane	ug/L	5.3	50	64.0	117	69-129	
1,2-Dichloropropane	ug/L	ND	50	55.6	111	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	50	55.5	111	75-125	
1,3-Dichlorobenzene	ug/L	ND	50	56.3	113	75-125	
1,3-Dichloropropane	ug/L	ND	50	55.7	111	75-125	
1,4-Dichlorobenzene	ug/L	ND	50	56.5	113	75-125	
2,2-Dichloropropane	ug/L	ND	50	59.8	120	69-141	
2-Butanone (MEK)	ug/L	ND	50	57.4	115	42-137	
2-Chlorotoluene	ug/L	ND	50	57.1	114	68-147	
4-Chlorotoluene	ug/L	ND	50	57.8	116	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50.6	101	57-126	
Acetone	ug/L	ND	125	142	113	34-130	
Allyl chloride	ug/L	ND	50	61.8	124	53-140	
Benzene	ug/L	82.7	50	145	125	73-136	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

MATRIX SPIKE SAMPLE: 1111274

Parameter	Units	10177247002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/L	ND	50	58.7	117	75-125	
Bromochloromethane	ug/L	ND	50	59.7	119	75-125	
Bromodichloromethane	ug/L	ND	50	57.5	115	75-125	
Bromoform	ug/L	ND	50	53.4	107	75-125	
Bromomethane	ug/L	ND	50	70.0	140	41-150	
Carbon tetrachloride	ug/L	ND	50	62.6	125	75-135	
Chlorobenzene	ug/L	ND	50	56.0	112	75-125	
Chloroethane	ug/L	ND	50	59.1	118	71-139	
Chloroform	ug/L	8.0	50	70.4	125	75-125	
Chloromethane	ug/L	ND	50	51.9	104	65-144	
cis-1,2-Dichloroethene	ug/L	ND	50	60.6	121	75-125	
cis-1,3-Dichloropropene	ug/L	ND	50	55.5	111	75-125	
Dibromochloromethane	ug/L	ND	50	55.4	111	75-125	
Dibromomethane	ug/L	ND	50	56.9	114	75-125	
Dichlorodifluoromethane	ug/L	ND	50	61.4	123	55-150	
Dichlorofluoromethane	ug/L	ND	50	60.6	121	75-129	
Diethyl ether (Ethyl ether)	ug/L	ND	50	60.8	122	75-125	
Ethylbenzene	ug/L	7.9	50	64.7	114	75-137	
Hexachloro-1,3-butadiene	ug/L	ND	25	24.3	97	69-150	
Isopropylbenzene (Cumene)	ug/L	ND	50	57.4	114	75-125	
m&p-Xylene	ug/L	2.7	100	113	110	71-133	
Methyl-tert-butyl ether	ug/L	ND	50	58.0	116	75-125	
Methylene Chloride	ug/L	ND	50	59.3	119	75-125	
n-Butylbenzene	ug/L	ND	50	53.3	107	75-141	
n-Propylbenzene	ug/L	1.0	50	59.3	117	75-132	
Naphthalene	ug/L	ND	50	49.2	97	74-138	
o-Xylene	ug/L	ND	50	56.4	112	75-128	
p-Isopropyltoluene	ug/L	ND	50	55.1	110	75-133	
sec-Butylbenzene	ug/L	ND	50	56.3	113	75-136	
Styrene	ug/L	ND	50	54.9	110	72-125	
tert-Butylbenzene	ug/L	ND	50	56.8	114	75-132	
Tetrachloroethene	ug/L	ND	50	57.8	116	75-126	
Tetrahydrofuran	ug/L	ND	500	604	121	64-128	
Toluene	ug/L	6.4	50	62.5	112	75-125	
trans-1,2-Dichloroethene	ug/L	ND	50	61.5	123	75-127	
trans-1,3-Dichloropropene	ug/L	ND	50	53.2	106	75-125	
Trichloroethene	ug/L	ND	50	60.5	121	75-125	
Trichlorofluoromethane	ug/L	ND	50	69.6	139	75-150	
Vinyl chloride	ug/L	ND	50	66.0	132	74-142	
Xylene (Total)	ug/L	3.1	150	169	111	73-132	
1,2-Dichloroethane-d4 (S)	%				98	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Dibromofluoromethane (S)	%				104	75-125	
Toluene-d8 (S)	%				95	75-125	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

SAMPLE DUPLICATE: 1111273

Parameter	Units	10177247001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	84.8	85.4	.7	30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	33.9	33.9	.001	30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	.27J		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	2.0	1.8	11	30	
Chloromethane	ug/L	ND	.41J		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

SAMPLE DUPLICATE: 1111273

Parameter	Units	10177247001 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	122	126	3	30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	98	1		
4-Bromofluorobenzene (S)	%	99	99	.04		
Dibromofluoromethane (S)	%	104	104	.1		
Toluene-d8 (S)	%	94	95	.7		

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QUALIFIERS

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41037061 Former Schmunk's
Pace Project No.: 10177303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10177303001	**Caroline Well**	WI MOD GRO	GCV/8730		
10177303002	**Trip Blank**	WI MOD GRO	GCV/8730		
10177303001	**Caroline Well**	EPA 3010	MPRP/30104	EPA 6010	ICP/12577
10177303001	**Caroline Well**	EPA 8260	MSV/18797		
10177303002	**Trip Blank**	EPA 8260	MSV/18797		

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1139

CHAIN-OF-CUSTODY / Analytical Request Document

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

10177303

Page: 1 of 1

1524937

Section A Required Client Information:

Company: Terracon
Address: 3535 Hoffman Rd E
White Bear Lake, MN
Email To:
Phone: 651-770-1500 Fax: 651-770-1057
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Paul Wese
Copy To:
Purchase Order No.: MPCA 3000001327
Project Name: Former Schmuntz's Grocery
Project Number: 41037061

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC	GRO	Arsenic	Hardness	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	CAROLINE WELL	DW	G	—	—	12/1/11	1210	—	7			16						Y/N: N	N	N	N		001
2	TRIP BLANK	—	—	—	—	—	—	—	4				4						X	X			002
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Shipped on ice	C Barrie / Terracon	12/2/11	1000	E Pace	12-2-11	1145	1.6	Y	N	Y
Sealed cooler	E Pace	12/2/11	1300	J. Cox / Pace	12/2/11	1300				

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cate Barrie

SIGNATURE of SAMPLER: C Barrie

DATE Signed (MM/DD/YY): 12/2/11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Revised Date: 02Jun2011 Page 1 of 1
	Document Number: F-L-213 Rev.01	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Terracon Project # 10177303

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ____ No ____

Thermometer Used: 80344042 or 80512447 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.6 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/2/11 LC

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☑Yes ☐No ☐N/A	13. ☑ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	Samp # Caroline Well
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑Yes ☐No	Initial when completed LC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. 4 wt trips
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 110711-1		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Per Paul these project changed to RUSH 3-STAT on 12/5/11

Project Manager Review: Shawn Jarvis **Date:** 12-2-11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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January 30, 2012

Mr. Paul Wiese
Terracon Environmental, Inc.
3535 Hoffman Road East
White Bear Lake, MN 55110

RE: Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Dear Mr. Wiese:
Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10181190001	**108 LAKE AVE**	Water	01/19/12 11:00	01/23/12 17:05
10181190002	**TRIP BLANK**	Water	01/19/12 00:00	01/23/12 17:05

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SAMPLE ANALYTE COUNT

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10181190001	**108 LAKE AVE**	WI MOD GRO	KT1	2
		EPA 8260	SE	73
10181190002	**TRIP BLANK**	WI MOD GRO	KT1	2
		EPA 8260	SE	73

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PROJECT NARRATIVE

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Terracon Environmental, Inc.
Date: January 30, 2012

General Information:
2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Method: **EPA 8260**
Description: 8260 VOC
Client: Terracon Environmental, Inc.
Date: January 30, 2012

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Sample: 108 LAKE AVE **Lab ID: 10181190001** Collected: 01/19/12 11:00 Received: 01/23/12 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		01/26/12 13:24		
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%	80-125	1		01/26/12 13:24	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/25/12 10:38	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		01/25/12 10:38	107-05-1	
Benzene	ND	ug/L	1.0	1		01/25/12 10:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/25/12 10:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/25/12 10:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/25/12 10:38	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/25/12 10:38	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/25/12 10:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/25/12 10:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		01/25/12 10:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/25/12 10:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/25/12 10:38	67-66-3	
Chloromethane	ND	ug/L	4.0	1		01/25/12 10:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/25/12 10:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/25/12 10:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/25/12 10:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/25/12 10:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/25/12 10:38	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/25/12 10:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/25/12 10:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/25/12 10:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/25/12 10:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:38	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/25/12 10:38	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/25/12 10:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/25/12 10:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/25/12 10:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/25/12 10:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/25/12 10:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/25/12 10:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/25/12 10:38	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/12 10:38	87-68-3	

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ANALYTICAL RESULTS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Sample: 108 LAKE AVE **Lab ID: 10181190001** Collected: 01/19/12 11:00 Received: 01/23/12 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/25/12 10:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/25/12 10:38	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		01/25/12 10:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/25/12 10:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/25/12 10:38	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/25/12 10:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	103-65-1	
Styrene	ND	ug/L	1.0	1		01/25/12 10:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/25/12 10:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/25/12 10:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/25/12 10:38	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/25/12 10:38	109-99-9	
Toluene	ND	ug/L	1.0	1		01/25/12 10:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/25/12 10:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/25/12 10:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/25/12 10:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/25/12 10:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/25/12 10:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		01/25/12 10:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/25/12 10:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		01/25/12 10:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/25/12 10:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/25/12 10:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/25/12 10:38	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99	%	75-125	1		01/25/12 10:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		01/25/12 10:38	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		01/25/12 10:38	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		01/25/12 10:38	460-00-4	

Sample: TRIP BLANK **Lab ID: 10181190002** Collected: 01/19/12 00:00 Received: 01/23/12 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO							
Gasoline Range Organics	ND	ug/L	100	1		01/26/12 13:03		
Surrogates								
a,a,a-Trifluorotoluene (S)	102	%	80-125	1		01/26/12 13:03	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		01/25/12 10:13	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		01/25/12 10:13	107-05-1	
Benzene	ND	ug/L	1.0	1		01/25/12 10:13	71-43-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Sample: TRIP BLANK **Lab ID: 10181190002** Collected: 01/19/12 00:00 Received: 01/23/12 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/L	1.0	1		01/25/12 10:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/25/12 10:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/25/12 10:13	75-27-4	
Bromoform	ND	ug/L	4.0	1		01/25/12 10:13	75-25-2	
Bromomethane	ND	ug/L	4.0	1		01/25/12 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	4.0	1		01/25/12 10:13	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		01/25/12 10:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/25/12 10:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/25/12 10:13	67-66-3	
Chloromethane	ND	ug/L	4.0	1		01/25/12 10:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/25/12 10:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/25/12 10:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		01/25/12 10:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/25/12 10:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/25/12 10:13	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		01/25/12 10:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/25/12 10:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/25/12 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/25/12 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/25/12 10:13	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		01/25/12 10:13	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		01/25/12 10:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/25/12 10:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		01/25/12 10:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/25/12 10:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		01/25/12 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		01/25/12 10:13	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		01/25/12 10:13	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		01/25/12 10:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/25/12 10:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/25/12 10:13	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		01/25/12 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4.0	1		01/25/12 10:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/25/12 10:13	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		01/25/12 10:13	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	103-65-1	
Styrene	ND	ug/L	1.0	1		01/25/12 10:13	100-42-5	

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ANALYTICAL RESULTS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Sample: TRIP BLANK **Lab ID: 10181190002** Collected: 01/19/12 00:00 Received: 01/23/12 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/25/12 10:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/25/12 10:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/25/12 10:13	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		01/25/12 10:13	109-99-9	
Toluene	ND	ug/L	1.0	1		01/25/12 10:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/25/12 10:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/25/12 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/25/12 10:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/25/12 10:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/25/12 10:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		01/25/12 10:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		01/25/12 10:13	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/25/12 10:13	108-67-8	
Vinyl chloride	ND	ug/L	0.40	1		01/25/12 10:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/25/12 10:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/25/12 10:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/25/12 10:13	95-47-6	
Surrogates								
Dibromofluoromethane (S)	102	%	75-125	1		01/25/12 10:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		01/25/12 10:13	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		01/25/12 10:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1		01/25/12 10:13	460-00-4	

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

QC Batch: GCV/8863 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 10181190001, 10181190002

METHOD BLANK: 1131918 Matrix: Water
Associated Lab Samples: 10181190001, 10181190002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	100	01/26/12 12:41	
a,a,a-Trifluorotoluene (S)	%	100	80-125	01/26/12 12:41	

LABORATORY CONTROL SAMPLE & LCSD: 1131919 1131920

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	1000	981	1010	98	101	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				99	101	80-125			

MATRIX SPIKE SAMPLE: 1132686

Parameter	Units	10181135004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	1000	1050	105	80-120	
a,a,a-Trifluorotoluene (S)	%				98	80-125	

SAMPLE DUPLICATE: 1132687

Parameter	Units	10181135005 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%	100	102	2		

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

QC Batch: MSV/19138 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10181190001, 10181190002

METHOD BLANK: 1131491 Matrix: Water
Associated Lab Samples: 10181190001, 10181190002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1-Dichloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,1-Dichloroethene	ug/L	ND	1.0	01/25/12 09:47	
1,1-Dichloropropene	ug/L	ND	1.0	01/25/12 09:47	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
1,2,3-Trichloropropane	ug/L	ND	4.0	01/25/12 09:47	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/25/12 09:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	01/25/12 09:47	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/25/12 09:47	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
1,2-Dichloroethane	ug/L	ND	1.0	01/25/12 09:47	
1,2-Dichloropropane	ug/L	ND	4.0	01/25/12 09:47	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/25/12 09:47	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
1,3-Dichloropropane	ug/L	ND	1.0	01/25/12 09:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
2,2-Dichloropropane	ug/L	ND	4.0	01/25/12 09:47	
2-Butanone (MEK)	ug/L	ND	4.0	01/25/12 09:47	
2-Chlorotoluene	ug/L	ND	1.0	01/25/12 09:47	
4-Chlorotoluene	ug/L	ND	1.0	01/25/12 09:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	4.0	01/25/12 09:47	
Acetone	ug/L	ND	25.0	01/25/12 09:47	
Allyl chloride	ug/L	ND	4.0	01/25/12 09:47	
Benzene	ug/L	ND	1.0	01/25/12 09:47	
Bromobenzene	ug/L	ND	1.0	01/25/12 09:47	
Bromochloromethane	ug/L	ND	1.0	01/25/12 09:47	
Bromodichloromethane	ug/L	ND	1.0	01/25/12 09:47	
Bromoform	ug/L	ND	4.0	01/25/12 09:47	
Bromomethane	ug/L	ND	4.0	01/25/12 09:47	
Carbon tetrachloride	ug/L	ND	1.0	01/25/12 09:47	
Chlorobenzene	ug/L	ND	1.0	01/25/12 09:47	
Chloroethane	ug/L	ND	1.0	01/25/12 09:47	
Chloroform	ug/L	ND	1.0	01/25/12 09:47	
Chloromethane	ug/L	ND	4.0	01/25/12 09:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/25/12 09:47	
cis-1,3-Dichloropropene	ug/L	ND	4.0	01/25/12 09:47	
Dibromochloromethane	ug/L	ND	1.0	01/25/12 09:47	
Dibromomethane	ug/L	ND	4.0	01/25/12 09:47	

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

METHOD BLANK: 1131491 Matrix: Water

Associated Lab Samples: 10181190001, 10181190002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	01/25/12 09:47	
Dichlorofluoromethane	ug/L	ND	1.0	01/25/12 09:47	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	01/25/12 09:47	
Ethylbenzene	ug/L	ND	1.0	01/25/12 09:47	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/25/12 09:47	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/25/12 09:47	
m&p-Xylene	ug/L	ND	2.0	01/25/12 09:47	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/25/12 09:47	
Methylene Chloride	ug/L	ND	4.0	01/25/12 09:47	
n-Butylbenzene	ug/L	ND	1.0	01/25/12 09:47	
n-Propylbenzene	ug/L	ND	1.0	01/25/12 09:47	
Naphthalene	ug/L	ND	4.0	01/25/12 09:47	
o-Xylene	ug/L	ND	1.0	01/25/12 09:47	
p-Isopropyltoluene	ug/L	ND	1.0	01/25/12 09:47	
sec-Butylbenzene	ug/L	ND	1.0	01/25/12 09:47	
Styrene	ug/L	ND	1.0	01/25/12 09:47	
tert-Butylbenzene	ug/L	ND	1.0	01/25/12 09:47	
Tetrachloroethene	ug/L	ND	1.0	01/25/12 09:47	
Tetrahydrofuran	ug/L	ND	10.0	01/25/12 09:47	
Toluene	ug/L	ND	1.0	01/25/12 09:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/25/12 09:47	
trans-1,3-Dichloropropene	ug/L	ND	4.0	01/25/12 09:47	
Trichloroethene	ug/L	ND	1.0	01/25/12 09:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/25/12 09:47	
Vinyl chloride	ug/L	ND	0.40	01/25/12 09:47	
Xylene (Total)	ug/L	ND	3.0	01/25/12 09:47	
1,2-Dichloroethane-d4 (S)	%	98	75-125	01/25/12 09:47	
4-Bromofluorobenzene (S)	%	99	75-125	01/25/12 09:47	
Dibromofluoromethane (S)	%	99	75-125	01/25/12 09:47	
Toluene-d8 (S)	%	99	75-125	01/25/12 09:47	

LABORATORY CONTROL SAMPLE: 1131492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	75-125	
1,1,1-Trichloroethane	ug/L	50	52.4	105	73-128	
1,1,2,2-Tetrachloroethane	ug/L	50	52.7	105	75-125	
1,1,2-Trichloroethane	ug/L	50	52.0	104	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	50	36.7	73	63-125	
1,1-Dichloroethane	ug/L	50	51.4	103	72-126	
1,1-Dichloroethene	ug/L	50	49.8	100	73-129	
1,1-Dichloropropene	ug/L	50	49.8	100	72-128	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	73-125	
1,2,3-Trichloropropane	ug/L	50	51.0	102	75-125	
1,2,4-Trichlorobenzene	ug/L	50	51.3	103	74-125	

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

LABORATORY CONTROL SAMPLE: 1131492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	51.0	102	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	53.2	106	75-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	75-125	
1,2-Dichlorobenzene	ug/L	50	51.3	103	75-125	
1,2-Dichloroethane	ug/L	50	51.3	103	75-132	
1,2-Dichloropropane	ug/L	50	50.1	100	75-125	
1,3,5-Trimethylbenzene	ug/L	50	51.2	102	75-126	
1,3-Dichlorobenzene	ug/L	50	51.6	103	75-125	
1,3-Dichloropropane	ug/L	50	52.2	104	75-125	
1,4-Dichlorobenzene	ug/L	50	51.5	103	75-125	
2,2-Dichloropropane	ug/L	50	50.1	100	72-133	
2-Butanone (MEK)	ug/L	50	49.7	99	52-138	
2-Chlorotoluene	ug/L	50	51.0	102	74-125	
4-Chlorotoluene	ug/L	50	51.7	103	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	52.1	104	75-125	
Acetone	ug/L	125	129	103	30-150	
Allyl chloride	ug/L	50	53.7	107	75-132	
Benzene	ug/L	50	49.6	99	75-132	
Bromobenzene	ug/L	50	51.2	102	75-125	
Bromochloromethane	ug/L	50	52.5	105	75-126	
Bromodichloromethane	ug/L	50	50.9	102	75-125	
Bromoform	ug/L	50	54.6	109	75-125	
Bromomethane	ug/L	50	41.2	82	52-150	
Carbon tetrachloride	ug/L	50	52.4	105	73-132	
Chlorobenzene	ug/L	50	50.8	102	75-125	
Chloroethane	ug/L	50	53.4	107	75-143	
Chloroform	ug/L	50	50.9	102	75-128	
Chloromethane	ug/L	50	49.6	99	56-136	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	75-125	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	75-125	
Dibromochloromethane	ug/L	50	53.4	107	75-125	
Dibromomethane	ug/L	50	52.2	104	75-125	
Dichlorodifluoromethane	ug/L	50	35.2	70	50-137	
Dichlorofluoromethane	ug/L	50	51.9	104	68-133	
Diethyl ether (Ethyl ether)	ug/L	50	50.3	101	75-125	
Ethylbenzene	ug/L	50	50.6	101	75-125	
Hexachloro-1,3-butadiene	ug/L	25	24.3	97	57-132	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	75-125	
m&p-Xylene	ug/L	100	106	106	75-125	
Methyl-tert-butyl ether	ug/L	50	51.5	103	74-130	
Methylene Chloride	ug/L	50	49.8	100	62-127	
n-Butylbenzene	ug/L	50	51.6	103	68-128	
n-Propylbenzene	ug/L	50	52.6	105	74-125	
Naphthalene	ug/L	50	51.1	102	75-125	
o-Xylene	ug/L	50	51.8	104	75-125	
p-Isopropyltoluene	ug/L	50	50.7	101	75-125	
sec-Butylbenzene	ug/L	50	51.0	102	71-125	
Styrene	ug/L	50	51.9	104	75-125	

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

LABORATORY CONTROL SAMPLE: 1131492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	51.0	102	73-125	
Tetrachloroethene	ug/L	50	51.6	103	75-125	
Tetrahydrofuran	ug/L	500	517	103	75-128	
Toluene	ug/L	50	51.1	102	75-125	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-125	
trans-1,3-Dichloropropene	ug/L	50	53.8	108	75-125	
Trichloroethene	ug/L	50	51.8	104	75-125	
Trichlorofluoromethane	ug/L	50	45.9	92	64-139	
Vinyl chloride	ug/L	50	53.8	108	75-150	
Xylene (Total)	ug/L	150	158	105	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Dibromofluoromethane (S)	%			99	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1131513 1131514

Parameter	Units	10181190001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	51.8	55.2	104	110	75-125	6	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	56.6	59.1	113	118	75-145	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.7	56.2	105	112	75-125	7	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.4	54.1	103	108	75-125	5	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	59.5	62.7	119	125	75-150	5	30	
1,1-Dichloroethane	ug/L	ND	50	50	52.3	55.6	105	111	75-139	6	30	
1,1-Dichloroethene	ug/L	ND	50	50	54.8	58.2	110	116	75-148	6	30	
1,1-Dichloropropene	ug/L	ND	50	50	54.7	58.2	109	116	75-148	6	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50.4	55.0	101	110	75-127	9	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.2	54.4	100	109	75-125	8	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.4	55.7	103	111	75-126	8	30	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.5	54.9	101	110	75-135	8	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.9	56.0	104	112	75-125	7	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.9	55.3	106	111	75-125	4	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.7	53.8	99	108	75-125	8	30	
1,2-Dichloroethane	ug/L	ND	50	50	51.4	54.4	103	109	75-139	6	30	
1,2-Dichloropropane	ug/L	ND	50	50	49.8	53.6	100	107	75-131	7	30	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	51.1	55.4	102	111	75-134	8	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50.2	54.8	100	110	75-125	9	30	
1,3-Dichloropropane	ug/L	ND	50	50	51.8	54.2	104	108	75-127	5	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.5	54.7	101	109	75-125	8	30	
2,2-Dichloropropane	ug/L	ND	50	50	54.5	57.7	109	115	75-150	6	30	
2-Butanone (MEK)	ug/L	ND	50	50	47.1	51.9	94	104	50-138	10	30	
2-Chlorotoluene	ug/L	ND	50	50	50.9	55.4	102	111	75-134	9	30	
4-Chlorotoluene	ug/L	ND	50	50	50.6	54.7	101	109	75-130	8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	50.4	53.1	101	106	75-125	5	30	
Acetone	ug/L	ND	125	125	133	133	106	106	30-142	.2	30	
Allyl chloride	ug/L	ND	50	50	56.0	59.1	112	118	75-146	5	30	

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QUALITY CONTROL DATA

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1131513 1131514

Parameter	Units	10181190001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	50.4	54.0	101	108	75-146	7	30	
Bromobenzene	ug/L	ND	50	50	50.9	54.9	102	110	75-125	8	30	
Bromochloromethane	ug/L	ND	50	50	52.5	53.9	105	108	75-129	3	30	
Bromodichloromethane	ug/L	ND	50	50	51.3	54.4	103	109	75-130	6	30	
Bromoform	ug/L	ND	50	50	55.5	58.5	111	117	75-125	5	30	
Bromomethane	ug/L	ND	50	50	51.4	55.9	103	112	52-150	8	30	
Carbon tetrachloride	ug/L	ND	50	50	57.7	61.5	115	123	75-150	6	30	
Chlorobenzene	ug/L	ND	50	50	50.9	54.4	102	109	75-127	7	30	
Chloroethane	ug/L	ND	50	50	57.2	54.1	114	108	75-146	6	30	
Chloroform	ug/L	ND	50	50	51.8	55.6	104	111	75-137	7	30	
Chloromethane	ug/L	ND	50	50	55.1	58.3	110	117	64-150	6	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.7	56.3	105	113	75-139	7	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.1	55.0	102	110	75-129	7	30	
Dibromochloromethane	ug/L	ND	50	50	53.9	56.4	108	113	75-125	5	30	
Dibromomethane	ug/L	ND	50	50	51.6	54.5	103	109	75-126	5	30	
Dichlorodifluoromethane	ug/L	ND	50	50	60.9	63.8	122	128	75-150	5	30	
Dichlorofluoromethane	ug/L	ND	50	50	54.5	56.1	109	112	75-143	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	50	50	50.0	53.4	100	107	71-133	7	30	
Ethylbenzene	ug/L	ND	50	50	50.9	54.6	102	109	75-132	7	30	
Hexachloro-1,3-butadiene	ug/L	ND	25	25	26.2	27.9	105	112	62-147	7	30	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.1	54.8	102	110	75-135	7	30	
m&p-Xylene	ug/L	ND	100	100	106	113	106	113	75-131	7	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	50.7	53.9	101	108	71-137	6	30	
Methylene Chloride	ug/L	ND	50	50	49.9	53.1	100	106	57-134	6	30	
n-Butylbenzene	ug/L	ND	50	50	51.9	56.7	104	113	74-139	9	30	
n-Propylbenzene	ug/L	ND	50	50	52.7	56.9	105	114	75-137	8	30	
Naphthalene	ug/L	ND	50	50	50.3	54.7	101	109	75-129	9	30	
o-Xylene	ug/L	ND	50	50	50.6	54.8	101	110	75-128	8	30	
p-Isopropyltoluene	ug/L	ND	50	50	51.0	55.3	102	111	75-135	8	30	
sec-Butylbenzene	ug/L	ND	50	50	51.5	56.5	103	113	75-137	9	30	
Styrene	ug/L	ND	50	50	50.9	54.5	102	109	75-126	7	30	
tert-Butylbenzene	ug/L	ND	50	50	50.8	55.3	102	111	75-133	8	30	
Tetrachloroethene	ug/L	ND	50	50	53.9	57.3	108	115	75-138	6	30	
Tetrahydrofuran	ug/L	ND	500	500	504	541	99	106	74-128	7	30	
Toluene	ug/L	ND	50	50	51.8	54.7	104	109	75-131	5	30	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.7	57.0	107	114	75-140	6	30	
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.6	55.8	107	112	75-129	4	30	
Trichloroethene	ug/L	ND	50	50	53.4	56.6	107	113	75-132	6	30	
Trichlorofluoromethane	ug/L	ND	50	50	59.1	61.8	118	124	75-150	4	30	
Vinyl chloride	ug/L	ND	50	50	63.0	64.4	126	129	75-150	2	30	
Xylene (Total)	ug/L	ND	150	150	157	168	104	112	75-129	7	30	
1,2-Dichloroethane-d4 (S)	%						97	99	75-125			
4-Bromofluorobenzene (S)	%						100	101	75-125			
Dibromofluoromethane (S)	%						100	100	75-125			
Toluene-d8 (S)	%						101	99	75-125			

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QUALIFIERS

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41037061Former Schmunks Groc.
Pace Project No.: 10181190

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10181190001	**108 LAKE AVE**	WI MOD GRO	GCV/8863		
10181190002	**TRIP BLANK**	WI MOD GRO	GCV/8863		
10181190001	**108 LAKE AVE**	EPA 8260	MSV/19138		
10181190002	**TRIP BLANK**	EPA 8260	MSV/19138		

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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.

1028190

Page: 1 of 1

1459608

Section A Required Client Information:

Company: TERRACON
Address: 3535 HOFFMAN ROAD EAST
WHITE BEAR LAKE, MN 55110
Email To:
Phone: 651 770 1500 Fax: 651 770 1657
Requested Due Date/TAT:

Section B Required Project Information:

Report To: PAUL WIESE
Copy To:
work
Purchase Order No.:
Project Name: FARMER SCHMUCKS GROCERY
Project Number: 41037061

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference: MPCA state rates
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC by 8260	GRO by WIGRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	108 LAKE AVE.	WT	G	—	—	1/19/12	1100	-	6				X						X	X		001
2	TRIP BLANK	WT	G	—	—	1/19/12	\		4				X						X	X		002
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Shipped in sealed cooler on ice	[signature] / Terracon	1/20/12	1600	[signature] Pace	1/23/12	1600	0.0	Y	N	N
	[signature] Pace	1/22/12	1705							

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JOSEPH CONRAN
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 1/20/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 02Jun2011 Page 1 of 1
	Document Number: **F-L-213 Rev.01**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Terracon Project # 10181190

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☒ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Temp Blank: Yes ☒ No _____

Thermometer Used 80344042 or 80512447 **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 0.0 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: JRC 1/23/12

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact: JRC 1/23/12	☐Yes ☒No ☐N/A	10. trip Blank Broken
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☒Yes ☐No	Initial when completed JRC 1/23/12 Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☒No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 120211-1		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 1/24/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Water Laboratories Inc.

333 East Main Street
P.O. Box 388
Elk River, MN 55330
Phone: 763-441-7509
Fax: 763-441-9176

DRINKING WATER LABORATORY TEST REPORT

Last Name: CAROLINE
First Name: KEVIN
Address: 1017 ROOSEVELT RD SE
City: BEMIDJI
State: MN Zip Code: 56601 County:
Legal: 108 LAKE AVE NE, BEMIDJI, MN 56601

File #: 11L-024
Date/Time in Lab: 12/2/2011 9:30 AM
Unique Well #: 783975
Drillers #: 1839

Ordered By: FREEMAN WELL
Sampled By: FREEMAN WELL
Reason For Test: ROUTINE-ARSENIC

Sampled From: WELL
Date/Time Sampled: 12/1/2011 1:00 PM
Sample Temp: >4 deg C

ANALYTE & METHOD	DATE & TIME OF ANALYSIS	MAXIMUM CONTAMINATION LEVEL(EPA)	TEST RESULTS
Coliform Bacteria COLILERT	12/2/2011 1230	Negative	**NEGATIVE**
Nitrate (EPA 353.2 Rev 2.0)	12/2/2011 1320	10.0 ppm	**<0.1 ppm**
Arsenic (EPA 200.9 Rev 2.2)	12/7/2011 1709	10.0 µg/ L	**1.28 ug/L**

This sample DOES **meet the State of Minnesota and EPA guidelines for safe drinking water for the Analytes tested.**

Notes:

Arsenic is a mineral that exists naturally in soil and water. When Arsenic levels exceed 10 ppb, the MN Dept of Health recommends well owners consult with a water treatment professional to discuss options for removal of, or reduction of the level of Arsenic.

The test results are only indicative of the sample tested from the sample point on the date collected.
This report must not be reproduced, except in full, without the written approval from Water Laboratories, Inc.
Water Laboratories, Inc. is certified by the State of Minnesota under the Safe Drinking Water Program.
Lab ID# 027-141-110

Water Laboratories, Inc.

By: Kevin J Kloppen

Date: 12/8/2011

Received By KK Entered By KK Edited By KK

Amount Billed:

Date Paid:

Amount Paid:

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes, Chapter 103I

MINNESOTA UNIQUE WELL AND BORING NO. 783975

WELL OR BORING LOCATION

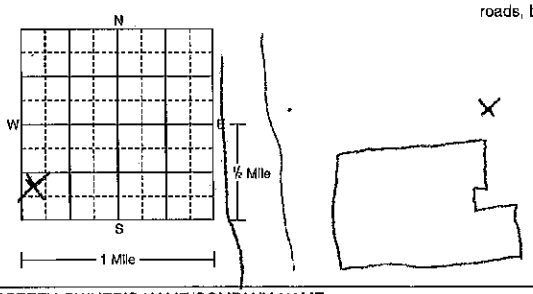
County Name: Beltrami

Township Name	Township No.	Range No.	Section No.	Fraction
Bemidji	146	33	14	SW¼ SW¼ NW¼

GPS LOCATION: Latitude ____ degrees ____ minutes ____ seconds ____ Longitude ____ degrees ____ minutes ____ seconds ____

House Number, Street Name, City, and Zip Code of Well Location: 108 Lake Ave. NE - Bemidji, MN 56601 — or Fire Number

Show exact location of well/boring in section grid with "X." Sketch map of well/boring location. Showing property lines, roads, buildings, and direction.



PROPERTY OWNER'S NAME/COMPANY NAME: Kevin Caroline

Property owner's mailing address if different than well location address indicated above.
1017 Roosevelt Rd SE
Bemidji, MN 56601

WELL OWNER'S NAME/COMPANY NAME

Well/boring owner's mailing address if different than property owner's address indicated above.

WELL/BORING DEPTH (completed): 80' ft. DATE WORK COMPLETED: 12-1-11

DRILLING METHOD: ☐ Cable Tool ☐ Driven ☐ Dug ☐ Auger ☑ Rotary ☐ Jetted ☐ ____

DRILLING FLUID: Bentonite WELL HYDROFRACTURED? ☐ Yes ☑ No From ____ ft. To ____ ft.

USE: ☑ Domestic ☐ Monitoring ☐ Heating/Cooling ☐ Noncommunity PWS ☐ Environ. Bore Hole ☐ Industry/Commercial ☐ Community PWS ☐ Irrigation ☐ Remedial ☐ Elevator ☐ Dewatering ☐ ____

CASING MATERIAL: ☐ Steel ☑ Plastic Drive Shoe? ☐ Yes ☑ No ☐ Threaded ☐ Welded ☐ ____

HOLE DIAM.

CASING Diameter / Weight / Specifications

Diameter	Weight	Specifications	HOLE DIAM.
4 in. to 75 ft.	SDR 21 lbs./ft.		8½ in. to ____ ft.
____ in. to ____ ft.	____ lbs./ft.		____ in. to ____ ft.
____ in. to ____ ft.	____ lbs./ft.		____ in. to ____ ft.

SCREEN: Make Johnson Type Stainless Slot/Gauze 10 Set between 75 ft. and 80 ft.
Diam. 4 Length 5 FITTINGS K-Packer

OPEN HOLE From ____ ft. To ____ ft.

STATIC WATER LEVEL: 28 ft. ☑ Below ☐ Above land surface Measured from Ground Date measured 12-1-11

PUMPING LEVEL (below land surface): 35 ft. after 2 hrs. pumping 20 g.p.m.

WELLHEAD COMPLETION
☐ Pitless/adapter manufacturer ____ Model ____
☐ Casing Protection ☐ 12 in. above grade
☐ At-grade (Environmental Well and Boring ONLY)

GROUTING INFORMATION
Well grouted from ☐ Yes ☐ No 0 to 73
Grout materials ☐ Neat cement ☐ Bentonite ☐ Concrete ☐ Other ____
From ____ To ____ ft. ____ ☐ Yds. ☐ Bags
From ____ To ____ ft. ____ ☐ Yds. ☐ Bags
From ____ To ____ ft. ____ ☐ Yds. ☐ Bags

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
Topsoil	Black	Soft	0	3
Sand + Clay	Brown	Soft	3	14
Sand	Brown	Soft	14	48
Clay	Gray	Soft	48	59
Sand	Gray	Soft	59	61
Clay	Gray	Soft	61	74
Sand	Brown	Soft	74	80

Use a second sheet, if needed.

NEAREST KNOWN SOURCE OF CONTAMINATION: 35' feet SE direction Septic Line type

Well disinfected upon completion? ☑ Yes ☐ No

PUMP
☐ Not installed Date installed ____
Manufacturer's name ____
Model Number ____ HP ____ Volts ____
Length of drop pipe ____ ft. Capacity ____ g.p.m.
Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐ ____

ABANDONED WELLS
Does property have any not in use and not sealed well(s)? ☐ Yes ☑ No

VARIANCE
Was a variance granted from the MDH for this well? ☐ Yes ☑ No TN# ____

WELL CONTRACTOR CERTIFICATION
This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Freeman — Licensee Business Name — 1839 — Lic. or Reg. No.

Certified Representative Signature — 1181 — Certified Rep. No. — 12.2.11 — Date

Mike Freeman — Name of Driller

REMARKS, ELEVATION, SOURCE OF DATA, etc.

IMPORTANT - FILE WITH PROPERTY PAPERS
WELL OWNER COPY

783975

IC 140-0020

HE-01205-12 (Rev. 12/08)

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING SEALING RECORD
Minnesota Statutes, Chapter 103I

Minnesota Well and Boring Sealing No.
Minnesota Unique Well No. or W-series No. (Leave blank if not known)

H 294392

WELL OR BORING LOCATION

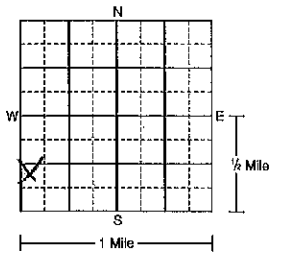
County Name: Beltrami

Township Name	Township No.	Range No.	Section No.	Fraction (sm. → lg.)
Bemidji	146	33	14	SW ¼ SW ¼ NW ¼

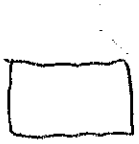
GPS LOCATION: Latitude_____ degrees_____ minutes_____ seconds
Longitude_____ degrees_____ minutes_____ seconds

Numerical Street Address or Fire Number and City of Well or Boring Location
108 Lake Ave NE - Bemidji, MN 56601

Show exact location of well or boring in section grid with "X."



Sketch map of well or boring location, showing property lines, roads, and buildings.



PROPERTY OWNER'S NAME/COMPANY NAME
Kevin Caroline
Property owner's mailing address if different than well location address indicated above
1017 Roosevelt Rd SE
Bemidji, MN 56601

WELL OWNER'S NAME/COMPANY NAME

Well owner's mailing address if different than property owner's address indicated above

GEOLOGICAL MATERIAL	COLOR	HARDNESS OR FORMATION	FROM	TO
If not known, indicate estimated formation log from nearby well or boring.				
Unknown.				

REMARKS, SOURCE OF DATA, DIFFICULTIES IN SEALING

IMPORTANT-FILE WITH PROPERTY PAPERS-WELL OWNER COPY **H 294392**

Date Sealed: 12-16-11
Date Well or Boring Constructed: Unknown.

Depth Before Sealing: 47 ft.
Original Depth: 47 ft.

AQUIFER(S)
☒ Single Aquifer ☐ Multiaquifer

WELL/BORING
☒ Water-Supply Well ☐ Monit. Well
☐ Env. Bore Hole ☐ Other_____

STATIC WATER LEVEL
☒ Measured ☐ Estimated Date Measured 12-16-11
40 ft. ☒ below ☐ above land surface

CASING TYPE(S)
☐ Steel ☒ Plastic ☐ Tile ☐ Other_____

WELLHEAD COMPLETION
Outside: ☐ Well House ☐ At Grade
☒ Pitless Adapter/Unit ☐ Buried
☐ Well Pit
☐ Other_____

Inside: ☐ Basement Offset ☐ Well Pit ☐ Buried ☐ Other_____

CASING(S)

Diameter	Depth	Set in oversize hole?	Annular space initially grouted?
4 in. from 42 to 0 ft.		☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
_____ in. from _____ to _____ ft.		☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown
_____ in. from _____ to _____ ft.		☐ Yes ☐ No	☐ Yes ☐ No ☐ Unknown

SCREEN/OPEN HOLE
Screen from 42 to 47 ft. Open Hole from _____ to _____ ft.

OBSTRUCTIONS
☐ Rods/Drop Pipe ☐ Check Valve(s) ☐ Debris ☐ Fill ☒ No Obstruction
Type of Obstructions (Describe)_____
Obstructions removed? ☐ Yes ☐ No Describe_____

PUMP
Type_____
☒ Removed ☐ Not Present ☐ Other_____

METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:
☒ No Annular Space Exists ☐ Annular Space Grouted with Tremie Pipe ☐ Casing Perforation/Removal
_____ in. from _____ to _____ ft. ☐ Perforated ☐ Removed
_____ in. from _____ to _____ ft. ☐ Perforated ☐ Removed
Type of Perforator_____
☐ Other_____

GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)
Grouting Material Bentonite from 0 to 47 ft._____ yards_____ bags
_____ from _____ to _____ ft._____ yards_____ bags
_____ from _____ to _____ ft._____ yards_____ bags

OTHER WELLS AND BORINGS
Other unsealed and unused well or boring on property? ☐ Yes ☒ No How many?_____

LICENSED OR REGISTERED CONTRACTOR CERTIFICATION
This well or boring was sealed in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Freeman Well Drilling Inc — 1839
Licensee Business Name — *License or Registration No.*

Certified Representative Signature — 1181 *Certified Rep. No.* — 12-17-11 *Date*

Mike Freeman.
Name of Person Sealing Well or Boring

HE-01434-12 IC# 140-0423 9/09R

Minnesota Department of Health
Well Management Section
P.O. Box 64975, St. Paul, Minnesota 55164-0975
651/201-4600 or 800/383-9808

Certification of Buried Sewer Construction and Testing

This form must be completed and submitted to the Minnesota Department of Health (MDH) for installation of a buried sewer located 20 to 50 feet from a water-supply well, or the installation of a water-supply well located 20 to 50 feet from a buried sewer. **NOTE:** A 50-foot minimum separation must be maintained between a water-supply well and a buried collector or municipal sewer, an unapproved sewer, or a buried sewer serving a facility handling infectious or pathological waste.

Owner of Property Where Sewer is Located (please print)
Kevin Caroline

Street Address, City, ZIP for Property Where Sewer is Located
108 Lake Ave. NE

County Name	Township No.	Range No.	Section No.	Fraction
Beltrami	146	33	14	SW ¼ SW ¼ NW ¼

Date of Testing (mm/dd/yyyy)	Person(s) Present to Witness Testing
Dec 01, 2011	Mike Freeman

Well Information

Provide Minnesota Well and Boring Number(s) _____ or, if unavailable, provide the following information for each well located within 50 feet of the buried sewer.

Well No./Description	Well Depth	Well Diameter	Year of Construction	Well Contractor Company Name	Well Address (if different from above)

Variance Information

Was a variance issued by the MDH for this sewer or well installation? ☐ Yes ☒ No
If yes, please provide the variance tracking number: TN _____.

Sewer Materials

- ☐ ABS (ASTM D2661)
- ☐ PVC (ASTM D2665)
- ☐ PVC (ASTM F891)
- ☒ ABS (ASTM D2751)
- ☐ PVC (ASTM D3034)
- ☐ Cast Iron _____
- ☐ ABS (ASTM F628)
- ☐ PVC (ASTM F789)

Test Methods (check one)

- ☒ Air Test (5 psi constant pressure for 15 minutes).
- ☐ Manometer Test (1-inch water column).
- ☐ Hydrostatic Test (for plastic pipe only).

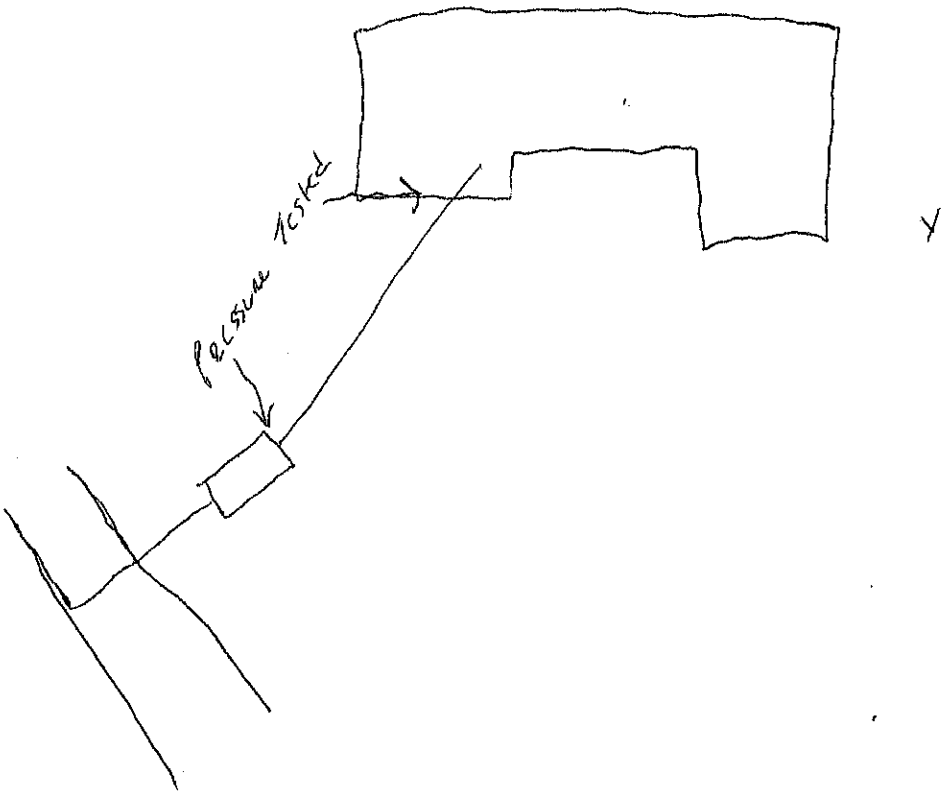
The portion of the buried sewer system tested is described as follows (please specify each segment of sewer pipe which was tested).

House to Tank which is About 45' Feet

Please draw a diagram of the sewer system on back and note the locations of any wells and the portions of the sewer system that were pressure tested.

Buried Sewer Testing Diagram

Please draw a site diagram of the sewer system and all buried sewer pipes, including those buried beneath buildings (serving floor drain[s], bathroom[s], laundry room, etc.). Please note the portions of the buried sewer pipes that were pressure tested, the location of the well(s), and major landmarks on the property.



I, (name) Kevin Karst, certify that the buried sewer(s) described above is/are constructed of the indicated, approved sewer material meeting the requirements of the Minnesota Plumbing Code, Minnesota Rules, part 4715.0530, and has/have been successfully tested in accordance with Minnesota Rules, part 4715.2820, by the indicated method.

In accordance with Minnesota Statutes, section 144.992, persons submitting false information to the Minnesota Department of Health are subject to administrative penalties of up to $10,000.

Name	Title		
Kevin Karst	Owner		
Firm			
Karst Plumbing L.L.C.			
Street Address			
7494 Hillside Loop NW			
City		State	ZIP Code
Walker		MN	56484
License/Certification Number	Signature		Date
PTO6304	Kevin Karst		12-1-11