

Rec 1/27/14  
put on BRRTS  
1/27/14  
(43)

## 2013 Progress Report

### Environmental Remediation

of a

### Petroleum Release

#### *Site*

**Pap's General Store**

**1637 80th Street**

**Balsam Lake, WI 54810**

*Prepared for*

**Rick Scoglio**

1637 80<sup>th</sup> St.

Balsam Lake, WI 54810

*WDNR BRRTS #03-49-223213*

*PECFA # 54810-2432-37*

Project S2880-003

January 23, 2014

Cedar Corporation

PECFA Participation No. 240179



604 Wilson Avenue • Menomonie, Wisconsin 54751

715-235-9081  
800-472-7372  
Fax • 715-235-2727  
www.cedarcorp.com

January 23, 2014

Mr. Phil Richard  
Department of Natural Resources  
875 S 4<sup>th</sup> Avenue  
Park Falls, WI 54552

SUBJECT: Pap's General Store, Balsam Lake – 2013 Progress Monitoring Report  
PECFA #54810-24329-37  
BRRTS #03-49-223213

Dear Mr. Richard,

This report summarizes the results of the sampling activities that have occurred since the May 2011 progress report. Four rounds of groundwater monitoring have occurred from May 2011 to October 2013 – October 19, 2011, April 12, 2012, April 30, 2012, and October 23, 2013. Additional monitoring was conducted on an irregular basis for four rounds with the fall 2012 sampling delayed to April 2013 due to PECFA funding concerns.

Included with this report please find:

- Table 1. Residual Soil Contamination Analytical Summary
- Table 2. Groundwater Elevations and Hydrograph
- Table 3. Free Product Recovery Summary
- Table 4. PVOC, Naphthalene, and Detected VOC in Groundwater
  
- Figure 1. Topographic Map (1"= 660 ft.)
- Figure 2. Aerial Photograph (1"= 1,320 ft.)
- Figure 3. Polk County GIS Property Map
- Figure 4. Post Remediation Residual Soil Contamination Plan
- Figure 5. PVOC + Naphthalene Concentration vs Time Graphs
- Figure 6. Groundwater Flow Map October 2011
- Figure 7. Groundwater Flow Map April 2012
- Figure 8. Groundwater Flow Map April 2013
- Figure 9. Groundwater Flow Map October 2013
- Figure 10. Benzene Isoconcentration Map October 2013
- Figure 11. Ethyl-benzene Isoconcentration Map October 2013
- Figure 12. Naphthalene Isoconcentration Map October 2013
- Figure 13. Toluene Isoconcentration Map October 2013

## **Setting:**

Pap's General Store is located about 300 feet south of the Apple River and 1000 feet west of White Ash Lake (Figures 1 and 2.) The site is located in a 200 degree loop in the river and is some 15 to 25 feet above the river elevation. The river generally flows from east to west in this area. The Delores Olson residence is immediately north of Pap's and the Pearson's own the surrounding acreage west and south of Pap's General Store. To the east is 80<sup>th</sup> Street with the Walter Strey residence to the northeast and the Buffalo Ridge Trails LLC property to the east (Figure 3).

On December 2, 2008 1,393 tons of contaminated soil removal was removed over a 2000 square foot area to a depth of 15-16 feet in the Pap's General Store parking lot (northeast corner of the property). The asphalt surface was removed for recycling and the contaminated soil source material was removed as best possible considering conditions. Unfortunately not all contaminated source material could be removed due to depth to the water table, caving soils, and nearby structures. Insufficient space allowed the excavation to be entered with the backhoe limiting the depth extent of the corrective action. The removed asphalt has not been replaced on the excavated area. Mr. Scoglio intends to replace it once this case is closed and the monitoring wells (Mw-1R, MW-2 and MW-3 removed. Figure 4 presents the excavation boundary and the residual benzene soil contamination at the base of the excavation. Table 1 summarizes residual BTEX analyses at remedial action sample points. These data indicate the presence of PVOC and naphthalene contamination in close proximity to the water table in certain areas notably near the northeast wall of the building in the vicinity of existing wells MW-1R and MW-2.

## **Water Table:**

Groundwater measurements (Table 2) are consistent with previous measurements with variations in water table elevations occurring in all wells with precipitation and snow melt events over the monitored period. Ground water was identified as northeasterly towards the Apple River in the last report (May 2011) and has shown to be northeasterly to northerly at the monitoring events over the last two years (Figures 6, 7, 8, & 9).

MW-6 continues to be the up gradient well. Located west of the source area it is also more centrally located on the highland between the bends in the Apple River. Ground water flow is generally dictated by topography and regional discharges (such as the Apple River). Consistent flow patterns can be assured when consistent elevations in ground water are observed. However, variations in flow patterns are present at this location due to small changes (usually variations of less than 0.2 feet) in groundwater elevations in various wells with resultant flow patterns varying from north to northeast. The flow direction appears to be more northeast in the fall with a northerly component observed in the spring events.

Historic free product measurements are summarized in Table 3. No free product was observed over the current monitoring period. Well MW-1R replaced MW-1. Free product was regularly present in MW-1 prior to the site excavation (December, 2008). This is not the case in replacement well MW-1R as no free product has been observed to date. Free product was previously observed in MW-2 but was not observed during this monitoring period. A total of 18 gallons of product was recovered from January 2007 to May 2011 from wells MW-1 and MW-2.

## **Groundwater Quality:**

Groundwater samples were collected and preserved according to EPA Methods for PVOC + Naphthalene. Samples were collected from 11 monitoring wells and three residential wells (Pap's Store, Olson, and Strey residences). All samples were shipped to TestAmerica Inc. in Watertown, WI laboratory (DNR certification # 128053530) or Chicago, IL (DNR Certification # 999580010) for analysis of PVOC plus naphthalene. The analytical data is summarized in Table 4 and analytical reports for this monitoring period are attached to this report.

Wells previously free of detections of PVOC continued to be free of PVOC during the last four monitoring rounds. Groundwater concentrations of Benzene, Ethyl-benzene, Toluene, Total Trimethylbenzenes, Total Xylenes, and Naphthalene continue to exceed the Enforcement Standard in wells MW-1R, MW-2, and MW-7. Post excavation (Dec. 2, 2008) Concentration vs Time graphs are presented in Figure 5 for Benzene, Ethyl-benzene, Naphthalene, Toluene, and Total Xylenes. Decreasing trends are noted for Benzene, Toluene and Xylenes in wells MW-1R and MW-2. Concentrations for these compounds are sporadic in wells MW-3 and MW-5 and are spiking in MW-7 with an increasing trend for Naphthalene observed in wells MW-1R and MW-2 and Ethyl-Benzene in MW-1R. Current (October, 2013) contaminant plume conditions are presented in Figures 10, 11, 12 and 13 presenting isoconcentrations of Benzene, Ethyl-Benzene, Naphthalene, and Toluene respectively.

No contaminants have been detected above method detection levels in any of the residential well samples over the past 13 years.

## **Discussion:**

Groundwater movement at this location is very slow and contamination has not been observed in wells other than MW-1/1R, MW-2 and MW-7 except on rare occasions in MW-3 and MW-5. MW-1R replaced MW-1 in the contaminated soil excavation and MW-2 is on the very northwest edge of the excavation. Groundwater quality conditions in these wells show improvement in that decreasing concentrations are present for most compounds, particularly those that are more volatile. Well MW-7 is offsite to the north of MW-2 presents inconsistent but at higher concentration of the less volatile BTEX compounds than observed on site. MW-3 is less than 50 feet from the source wells on the northeast edge of the excavation and presents inconsistent and sporadic detections of PVOC. If groundwater flow were consistently northeastward one would expect this well to present consistent and increasing concentrations of PVOC comparable to those observed in MW-1R and MW-2 which is not the case.

These observations suggest that geologic conditions of the aquifer are not uniform and the movement of the plume is in a northerly direction. The plume maps suggest there is preferential movement of the contamination towards the Apple River but this is contrary to some observed water table flow direction; however, the movement of water against a less pervious material in the aquifer north east of the source area could be directing the contaminants north much like a sailboat moves across the wind direction. There is a suggestion in the ground water elevation contours (Figures 6, 7, and 8) that a weak ground water divide exists near well MW-10 which supports the theory of a northward moving plume.

The contaminant plume can be characterized as stagnant to slowly moving northward (in the direction of

down gradient well MW-9). Free Product has not been observed in the last two years and is believed to no longer exist having been removed during the 2008 excavation and the residual dissolved into the aquifer as is evidenced by the higher concentrations of PVOC + Naphthalene observed in wells MW-1R, MW-2 and MW-7.

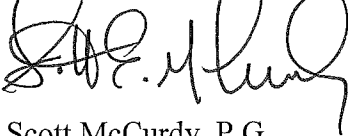
The current interpretation is that the contamination will continue to move northward and eventually enter the Apple River. No water supply wells are considered at risk as the Olson well is up gradient of the plume and there is no evidence that the plume has moved in the direction of the Strey well. Neither the Olson nor Strey properties have sufficient land between their existing well locations and the Apple River to the north for development of additional properties, limiting the potential risk for the plume to impact human health. Discharge to the river will not occur for over 20 years given the length of time the plume existed prior to the current monitoring effort. The concentration at the point of discharge some 200 feet down gradient of the contamination noted in well MW-7 is unknown.

Continued work to evaluate the extent, magnitude, and threat to human health or the environment of the contamination at the site does not appear to be warranted. Decreasing contamination levels can be attributed to the soil removal and natural attenuation. Given the additional monitoring and determination of plume movement and lack of risk to the public, it is recommended that this site be submitted to the closure committee for case closure with the Scoglio and Olson properties registered on the DNR BRRTS GIS database website for residual contamination.

If you have any questions please feel free to call me at 715-235-9081.

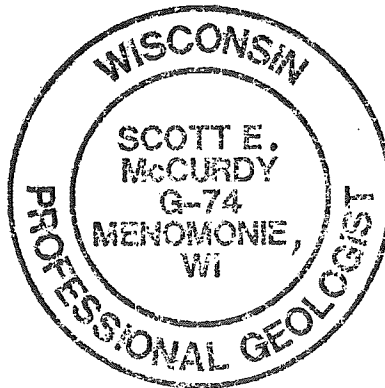
Sincerely;

CEDAR CORPORATION



Scott McCurdy, P.G.

Director, Environmental Group



Att.

cc. Mr. R. Scoglio, 1637 80<sup>th</sup> St., Balsam Lake, WI 54810

## **TABLES**

**TABLE # 1**  
**POST EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS**  
**PAP'S GENERAL STORE**  
**BALSAM LAKE, WI**

				Results reported in ug/Kg							
				Benzene	E - Benzene	MTBE	Naphthalene	Toluene	1,2,4 TMB	1,3,5 TMB	Xylenes
Wis Adm. Code NR720, Table 1 & 2, Residual Contaminant Levels				5.5	2,900	NS	NS	1,500	NS	NS	4,100
Wis Adm. Code NR746.06 Table 1, Residual Petroleum Product				8,500	4,600	NS	2,700	38,000	83,000	11,000	42,000
Wis Adm. Code NR746.06 Table 2, Direct Contact				1,100	NS	NS	NS	NS	NS	NS	NS
Boring Name	Sample Depth	Sample Date	Laboratory ID								
EX-1	4	12/2/2008	WRL0139-01	<26	<26	<26	370	97	690	200	480
EX-2	12	12/2/2008	WRL0139-02	<b>14,000</b>	<b>96,000</b>	<1400	<b>38,000</b>	<b>320,000</b>	<b>310,000</b>	<b>97,000</b>	<b>710,000</b>
EX-3	13	12/2/2008	WRL0139-03	<b>34,000</b>	<b>170,000</b>	<3500	<b>120,000</b>	<b>550,000</b>	<b>980,000</b>	<b>320,000</b>	<b>1,500,000</b>
EX-4	4	12/2/2008	WRL0139-04	<i>54</i>	<i>46</i>	<26	<51	320	130	48	330
EX-5	12	12/2/2008	WRL0139-05	<26	<26	<26	<52	95	31	<26	<88
EX-6	4	12/2/2008	WRL0139-06	<26	<26	<26	<52	55	<26	<26	<88
EX-7	12	12/2/2008	WRL0139-07	<i>180</i>	<i>4,300</i>	<36	<b>3,400</b>	<i>5,000</i>	32,000	8,100	<i>27,000</i>
EX-8	4	12/2/2008	WRL0139-08	<27	<27	<27	<54	81	<27	<27	<92
EX-9	12	12/2/2008	WRL0139-09	<b>6,500</b>	<b>29,000</b>	<350	<b>9,200</b>	<b>99,000</b>	79,000	<b>26,000</b>	<b>170,000</b>
EX-10	14	12/2/2008	WRL0139-10	<i>46</i>	<26	<26	<52	160	28	<26	<89
EX-11	10	12/2/2008	WRL0139-11	<i>650</i>	<i>1,400</i>	<37	310	<i>4,000</i>	<i>4,700</i>	<i>1,700</i>	<i>7,000</i>
EX-12	4	12/2/2008	WRL0139-12	<i>190</i>	<i>2,600</i>	<37	<b>2,800</b>	<i>4,900</i>	21,000	5,400	<i>22,000</i>
EX-13	4	12/2/2008	WRL0139-13	<26	<26	<26	<52	110	<26	<26	<88
EX-14	12	12/2/2008	WRL0139-14	<b>1,300</b>	<b>8,500</b>	<150	<b>3,800</b>	<b>24,000</b>	31,000	9,500	<b>53,000</b>
EX-15	4	12/2/2008	WRL0139-15	<34	<34	<34	<67	<34	<34	<34	<110
EX-16	16	12/2/2008	WRL0139-16	<b>2,600</b>	<b>41,000</b>	<640	<b>15,000</b>	<b>95,000</b>	<b>120,000</b>	<b>40,000</b>	<b>260,000</b>
EX-17	4	12/2/2008	WRL0139-17	<25	<25	<25	<51	96	<25	<25	<87
EX-18	14	12/2/2008	WRL0139-18	<b>7,300</b>	<b>140,000</b>	<1900	<b>48,000</b>	<b>240,000</b>	<b>450,000</b>	<b>150,000</b>	<b>910,000</b>

MTBE = Methyl tert butyl ether  
TMB = Trimethylbenzene  
E-Benzene = Ethylbenzene  
1,2-DCA = 1,2 Dichloroethane

Values in Bold Typeface or Italics exceed listed table value.

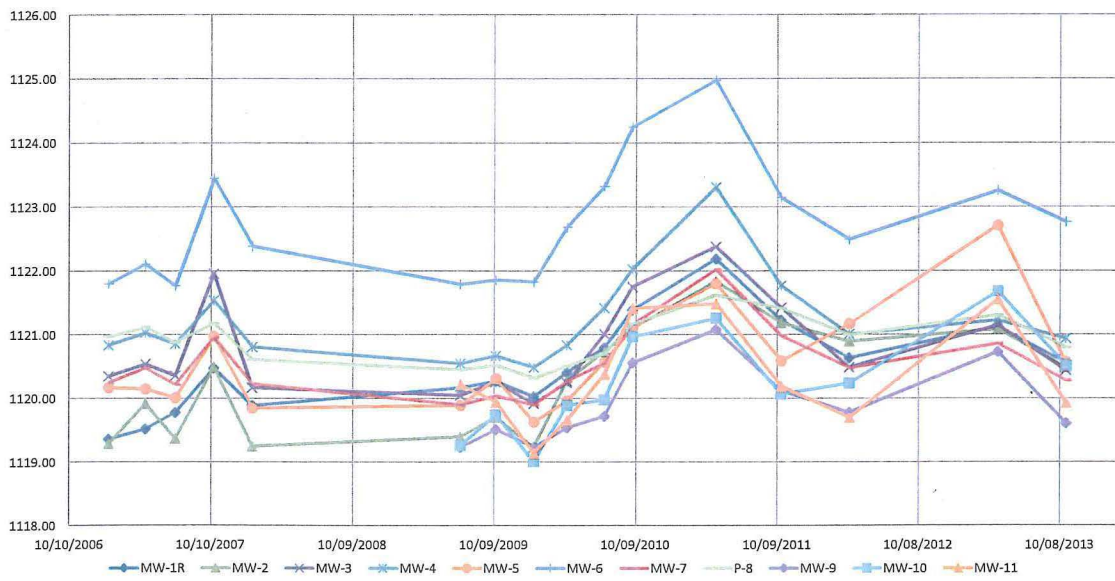
ug/Kg= micrograms per kilogram = ppb = parts per billion  
mg/Kg= milligrams per kilogram = ppm = parts per million  
IU = Instrument Units  
NA = Not Analyzed  
NS = No Standard Established

TABLE 2  
GROUNDWATER ELEVATIONS

PAP'S GENERAL STORE  
BALSAM LAKE, WI  
BRRTS #03-48-223213  
COMMERCE #54810-2432-37

WELL	MW-1	MW-1R	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	P-8	MW-9	MW-10	MW-11
CASING ELEV.	1133.68	1133.95	1134.04	1133.07	1133.76	1131.49	1133.82	1134.5	1134.42	1131.26	1128.11	1132.24
GROUND ELEV.	1134.20	1134.45	1135.39	1133.78	1134.23	1132.14	1134.22	1134.96	1134.96	1131.78	1128.56	1132.70
SCREEN TOP ELEV.	1124.34	1125.65	1122.89	1124.83	1123.95	1121.97	1124.08	1125.53	1094.30	1123.46	1122.98	1123.99
SCREEN BOTTOM ELEV.	1114.34	1115.65	1112.89	1114.83	1113.95	1111.97	1114.08	1115.53	1089.30	1113.46	1112.98	1113.99
DATE												
10/31/2000	1120.76	1120.76	1119.82	1120.97								
01/19/2007	1119.36	1119.36	1119.29	1120.35	1120.84	1120.17	1121.80	1120.25	1120.97			
04/24/2007	1119.52	1119.52	1119.92	1120.54	1121.03	1120.15	1122.11	1120.48	1121.12			
07/10/2007	1119.78	1119.78	1119.37	1120.36	1120.86	1120.01	1121.77	1120.22	1120.88			
10/17/2007	1120.48	1120.48	1120.50	1121.96	1121.54	1120.97	1123.45	1120.96	1121.18			
01/24/2008	1119.89	1119.89	1119.25	1120.17	1120.81	1119.85	1122.39	1120.23	1120.61			
07/14/2009		1120.17	1119.40	1120.05	1120.55	1119.89	1121.79	1119.90	1120.45	1119.23	1119.26	1120.22
10/13/2009		1120.27	1119.71	1120.26	1120.67	1120.31	1121.86	1120.04	1120.52	1119.51	1119.74	1119.94
01/19/2010		1120.03	1119.23	1119.92	1120.49	1119.63	1121.83	1119.90	1120.32	1119.23	1119.01	1119.14
04/14/2010		1120.41	1120.28	1120.25	1120.84	1119.96	1122.69	1120.27	1120.51	1119.54	1119.89	1119.66
07/20/2010		1120.80	1120.74	1121.01	1121.42	1120.57	1123.32	1120.55	1120.71	1119.72	1119.98	1120.38
09/30/2010		1121.39	1121.10	1121.75	1122.03	1121.11	1124.25	1121.16	1121.17	1120.56	1120.97	1121.41
05/03/2011		1122.19	1121.84	1122.38	1123.31	1121.80	1124.98	1122.02	1121.62	1121.08	1121.26	1121.48
10/19/2011		1121.23	1121.19	1121.42	1121.77	1120.59	1123.15	1120.98	1121.41	1120.12	1120.07	1120.19
04/12/2012		1120.64	1120.90	1120.49	1121.01	1121.17	1122.50	1120.48	1121.00	1119.78	1120.24	1119.70
04/30/2013		1121.13	1121.09	1121.15	1121.23	1122.71	1123.26	1120.86	1121.31	1120.73	1121.68	1121.55
10/23/2013		1120.56	1120.49	1120.44	1120.94	1120.57	1122.77	1120.28	1120.80	1119.61	1120.52	1119.93

Pap's General Store,  
Groundwater Hydrograph 2006 -2013





**Table 3**  
**Pap's General Store**  
**Balsam Lake, WI**  
**Free Product Data**

WELL	SAMPLE DATE	FP Thickness (FT)	Volume Recovered (Gal)
MW - 1	1/19/07	1.34	0.5
	2/8/07	0.71	0.25
	3/19/07	0.56	0.25
	4/24/07	1.44	0.25
	5/15/07	1.77	0.75
	6/13/07	1.52	0.75
	7/10/07	0.84	0.25
	8/2/07	0.61	0.25
	8/29/07	0.49	0.25
	10/17/07	0.79	0.3
	11/13/07	1.76	0.7
	12/18/07	0.83	0.3
	1/24/08	0.59	0.3
	Well abandoned 12-2-2008 during site excavation		
Product recovered			5.1
MW-1R	7/14/09	0	
	10/13/09	0	
	1/19/10	0	
	4/14/10	0	
	7/20/10	0	
	9/30/10	0	
	5/3/11	0	
	10/19/11	0	
	4/12/12	0	
	4/30/13	0	
	10/23/13	0	
	Product recovered		
MW-2	1/19/07	1.45	1
	2/8/07	1.6	1.5
	3/19/07	1.3	1.5
	4/24/07	0.95	0.75
	5/15/07	1.24	0.75
	6/13/07	1.19	0.5
	7/10/07	1.37	0.75
	8/2/07	1.52	1.3
	8/29/07	1.33	1.45
	10/17/07	0.83	0.5
	11/13/07	0.98	0.3
	12/18/07	0.7	0.2
	1/24/08	1.44	1.5
	7/14/09	0.93	0.3
	10/13/09	0.32	0.25
	1/19/10	1.06	0.25
	4/14/10	0.15	0
	7/20/10	0	0
	9/30/10	0.29	0.1
	5/3/11	0	0
	10/19/11	0	0
	4/12/12	0	0
	4/30/13	0	0
	10/23/13	0	0
	Product recovered		
<b>TOTAL PRODUCT RECOVERED IN GALLONS</b>			<b>18</b>





## **FIGURES**



# Pap's General Store



## Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Airport
- Great Lakes
- Cities
- Villages

0.3 0 0.13 0.3 Miles

NAD\_1983\_HARN\_Wisconsin\_TM

1:7,920



© Latitude Geographics Group Ltd.

**DISCLAIMER:** The information shown on these maps has been obtained from various sources and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

*Note: Not all sites are mapped.*

## Notes

Figure 1.



# Pap's General Store



## Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Airport
- 2010 Air Photos (WROC)
- Cities
- Villages

0.5 0 0.25 0.5 Miles

NAD\_1983\_HARN\_Wisconsin\_TM

© Latitude Geographics Group Ltd.

1: 15,840



DISCLAIMER: The information shown on these maps has been obtained from various sources and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/or/legal/>

Note: Not all sites are mapped.

## Notes

Figure 2  
Aerial Photo  
Scale 1"=1/4 mile



LEGEND

PROPERTY MAP  
TOWN OF APPLE RIVER  
POLK COUNTY, WI



604 Wilson Avenue  
Menomonie, WI 54751

715-235-9081  
800-472-7372

Fax • 715-235-2727  
www.cedarcorp.com

engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

DRAWN BY  
Polk Co

DATE  
01/124/13

REVISED BY  
sem

SCALE  
nts

SITE PROPERTY MAP

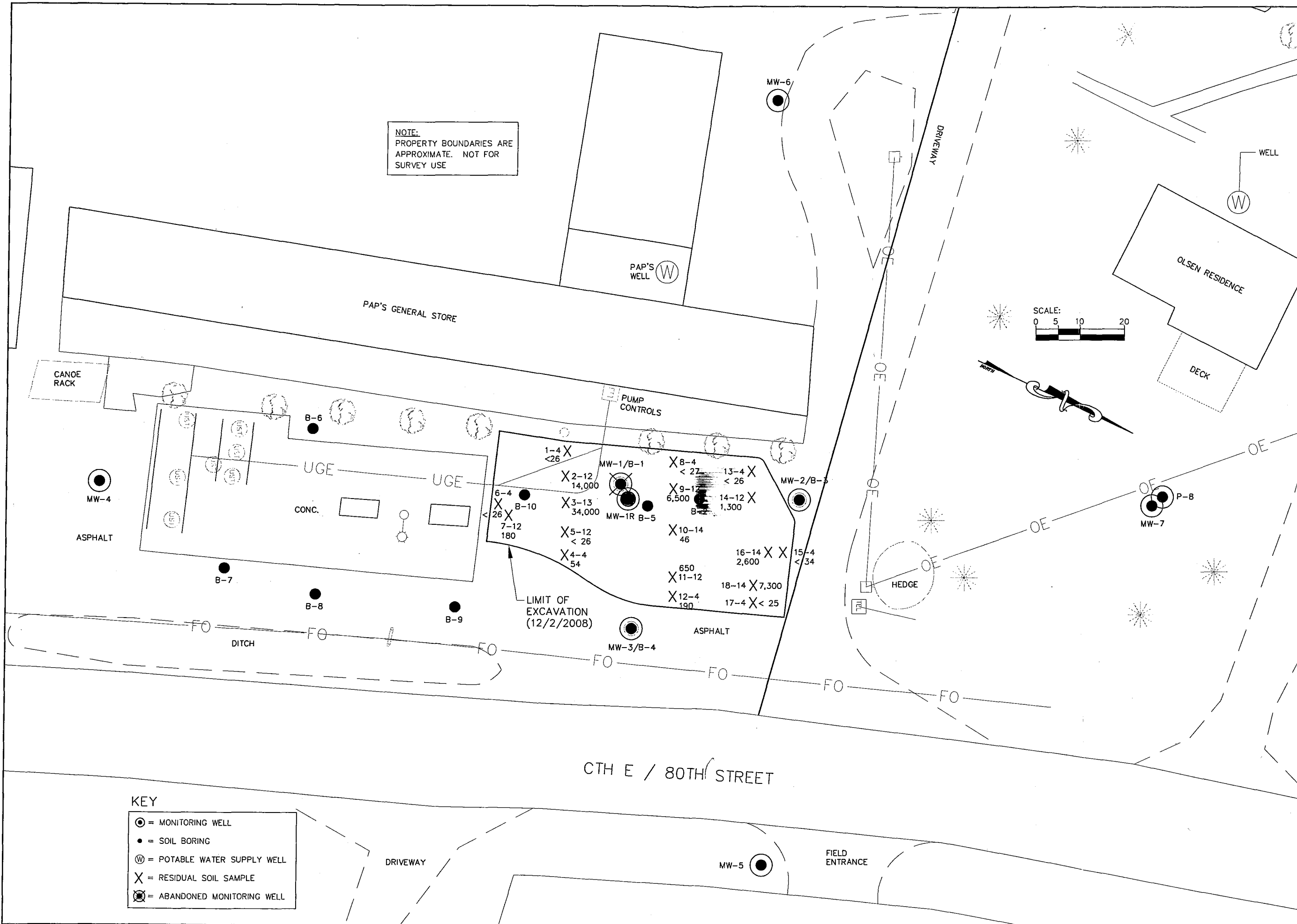
RICK SCOGLIO  
PAP'S GENERAL STORE  
BLASAM LAKE, WI

CHECKED BY  
sem  
JOB NO.

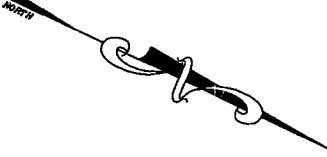
FIGURE

3

i:\Clients\S2880 Scoglio Rick\003 Pops Remediation, 002 Finalize Env Investigation\dwg\S003base.dwg 1/22/2014 7:16:03 AM CST



NOTE:  
PROPERTY BOUNDARIES ARE  
APPROXIMATE. NOT FOR  
SURVEY USE



KEY

	= MONITORING WELL
	= SOIL BORING
	= POTABLE WATER SUPPLY WELL
	= RESIDUAL SOIL SAMPLE
	= ABANDONED MONITORING WELL

JOB NO.	S2880-002
BOOK NO.	
Client	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S003base.dwg
DRAWING FILE	S003base.dwg

604 Wilson Avenue  
Menomonie, Wisconsin 54751

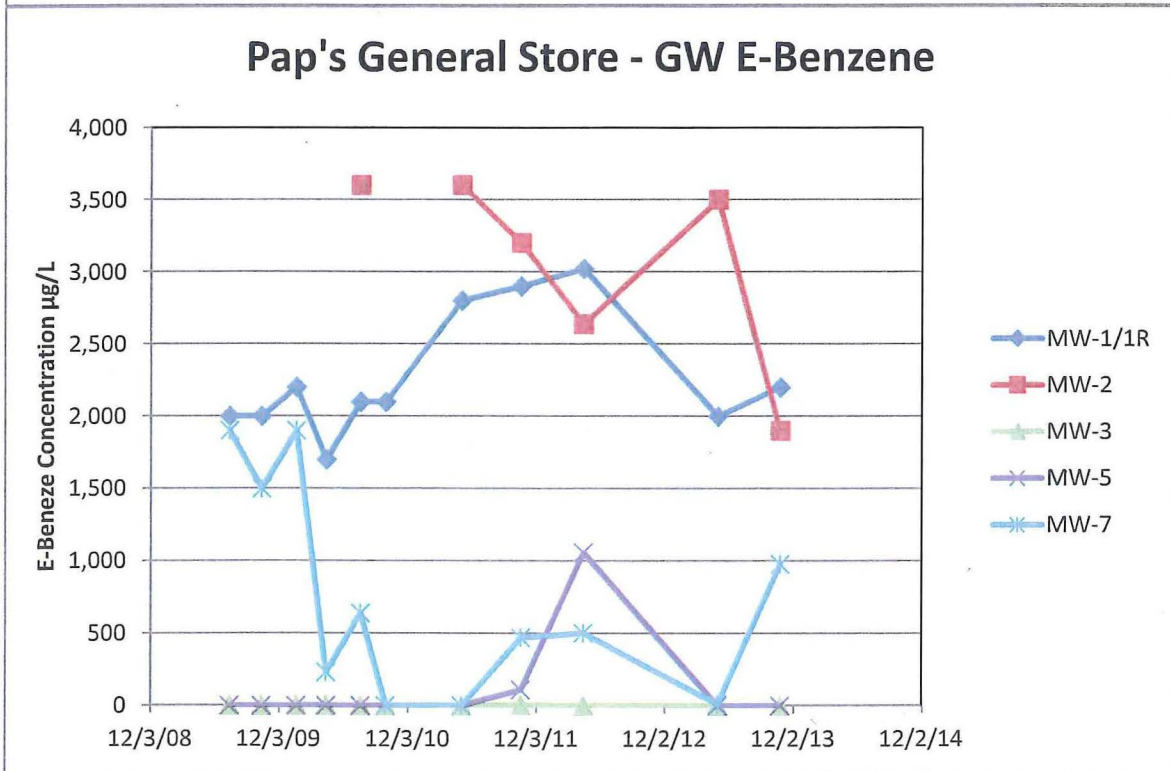
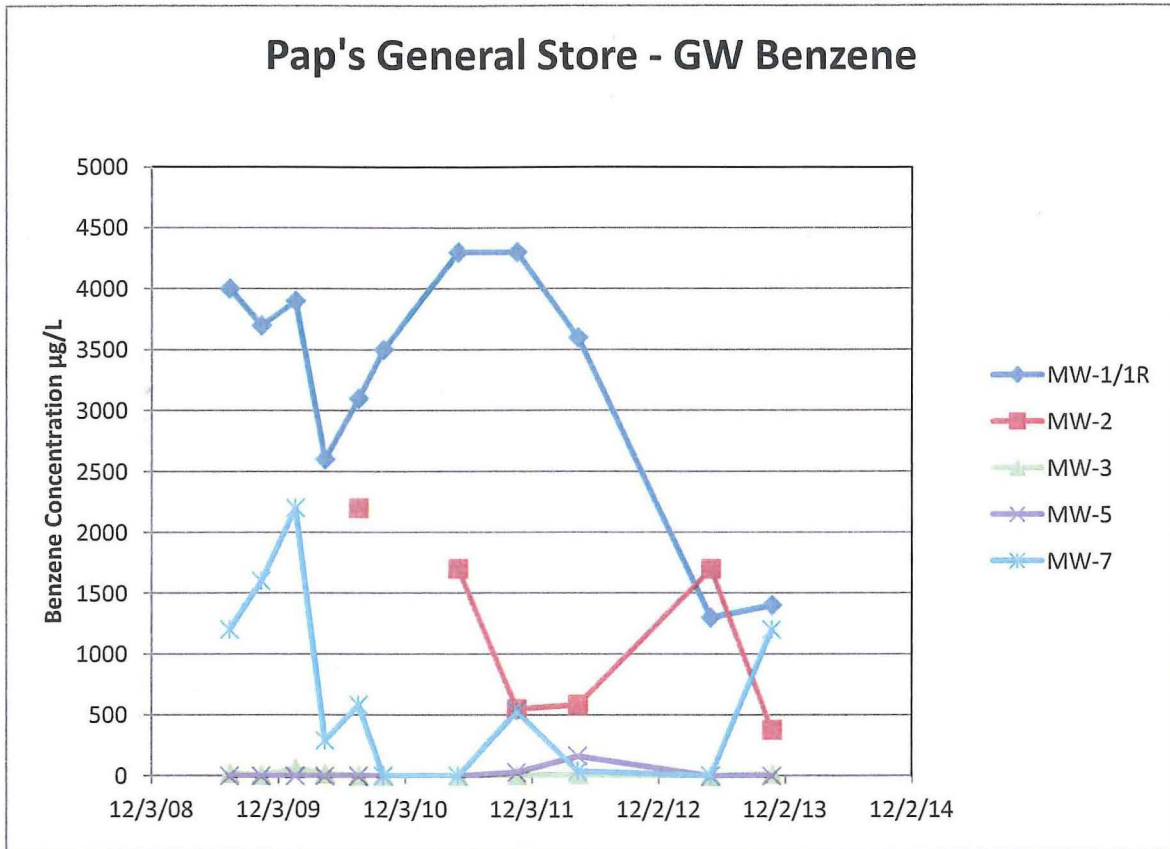
**Cedar** corporation

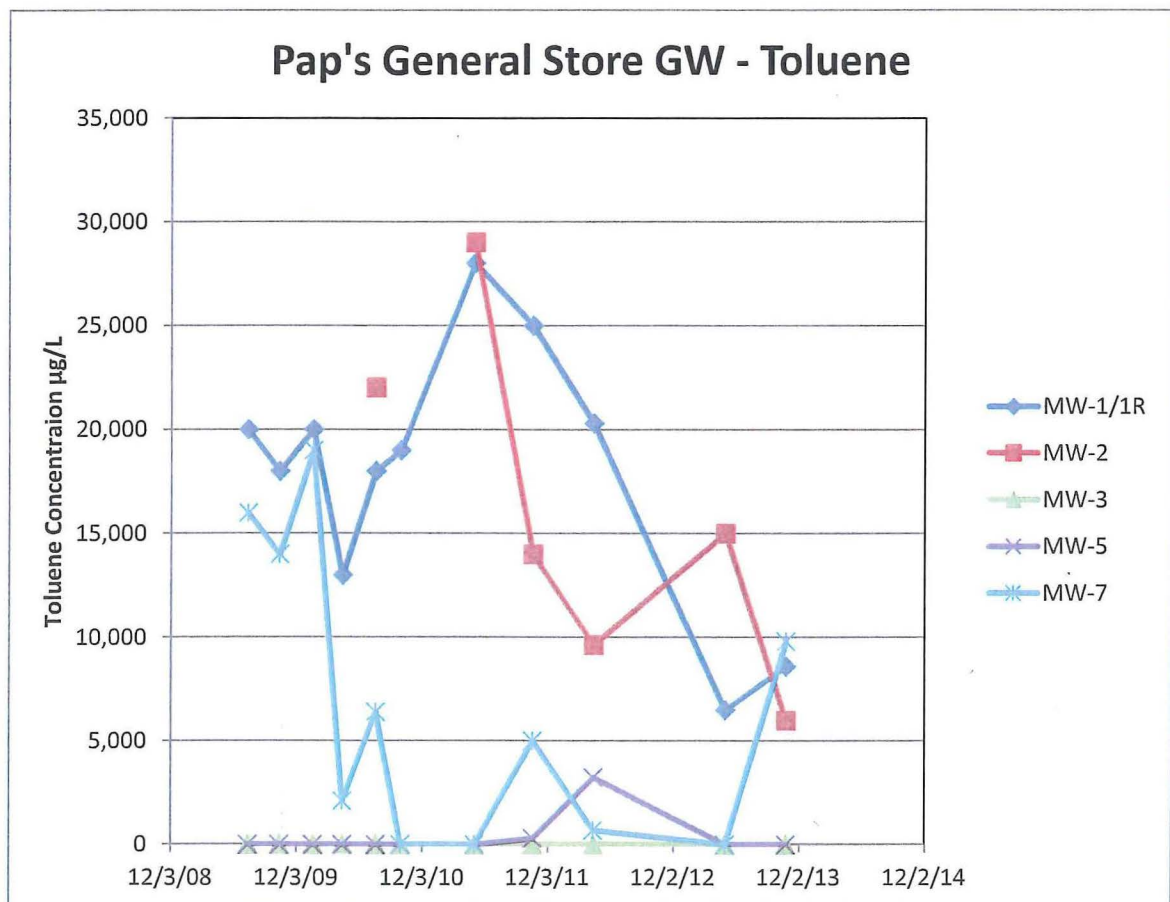
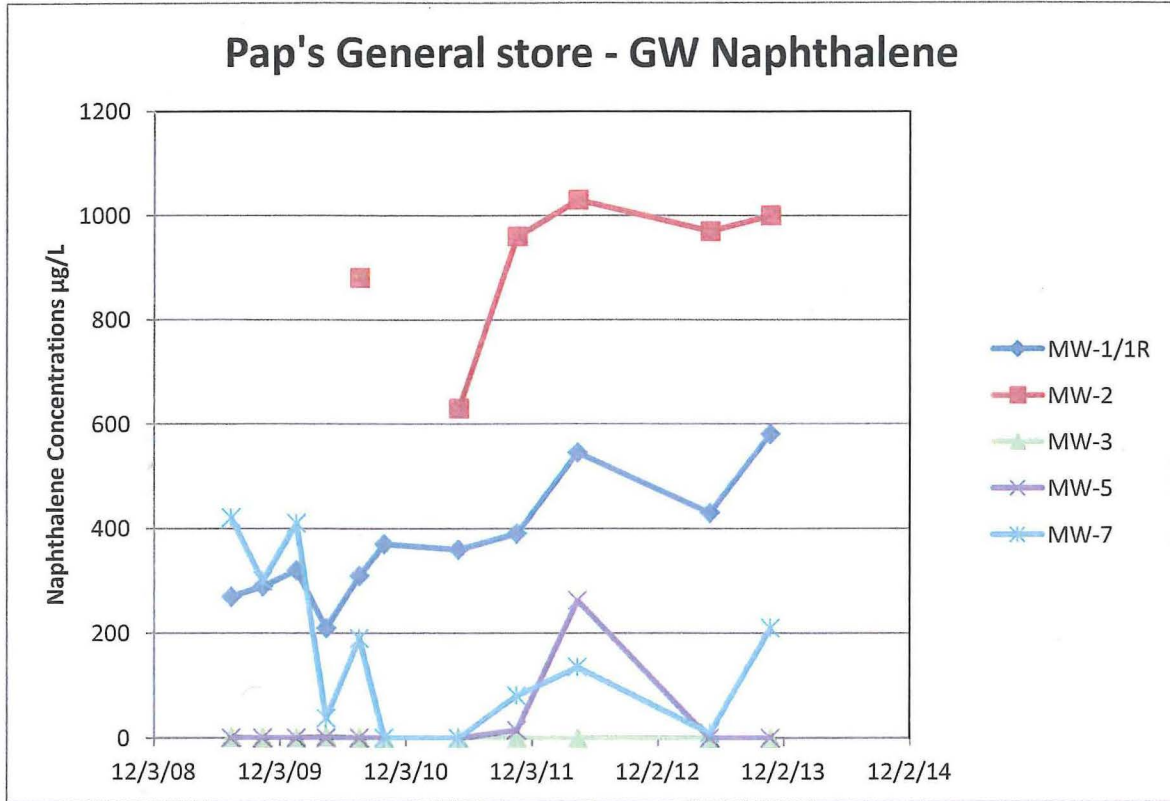
engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

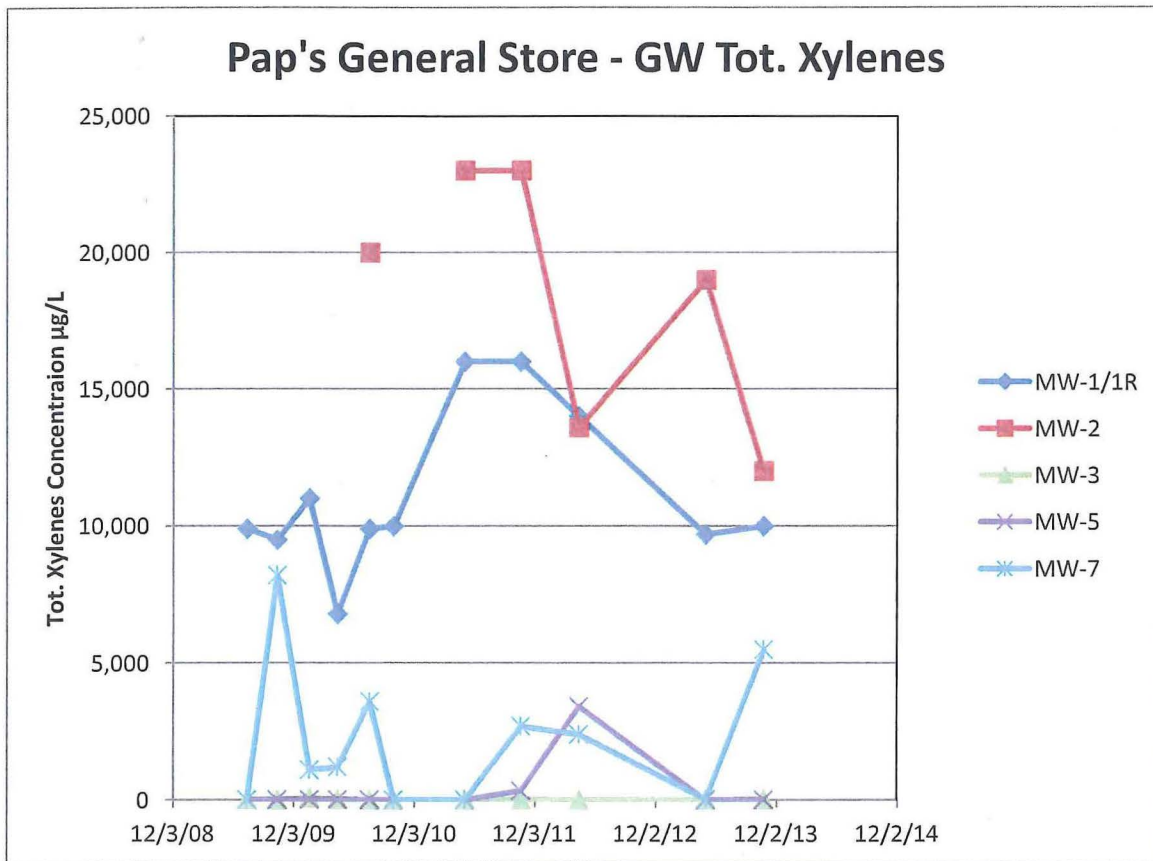
715-235-9081  
715-235-2727  
FAX 715-235-2727  
www.cedarcorp.com

**PAPS GENERAL STORE**  
RICK SCGLIO  
RESIDUAL SOIL CONTAMINATION

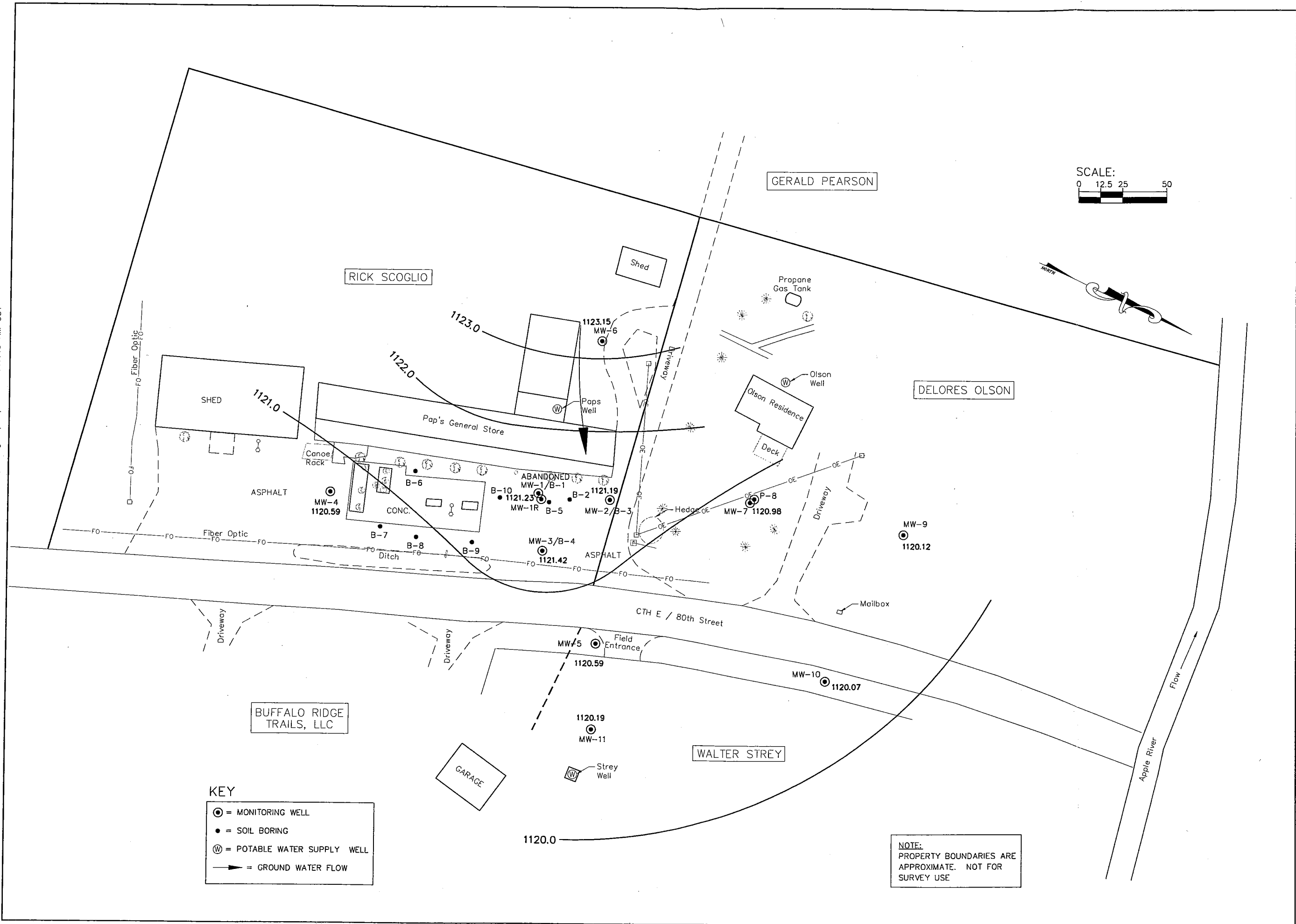








I:\Clients\S2880 Scoglio Rick\003 Paps Remediation, 002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

	= MONITORING WELL
	= SOIL BORING
	= POTABLE WATER SUPPLY WELL
	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

JOB NO.	S2880-002
BOOK NO.	
PROJECT	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

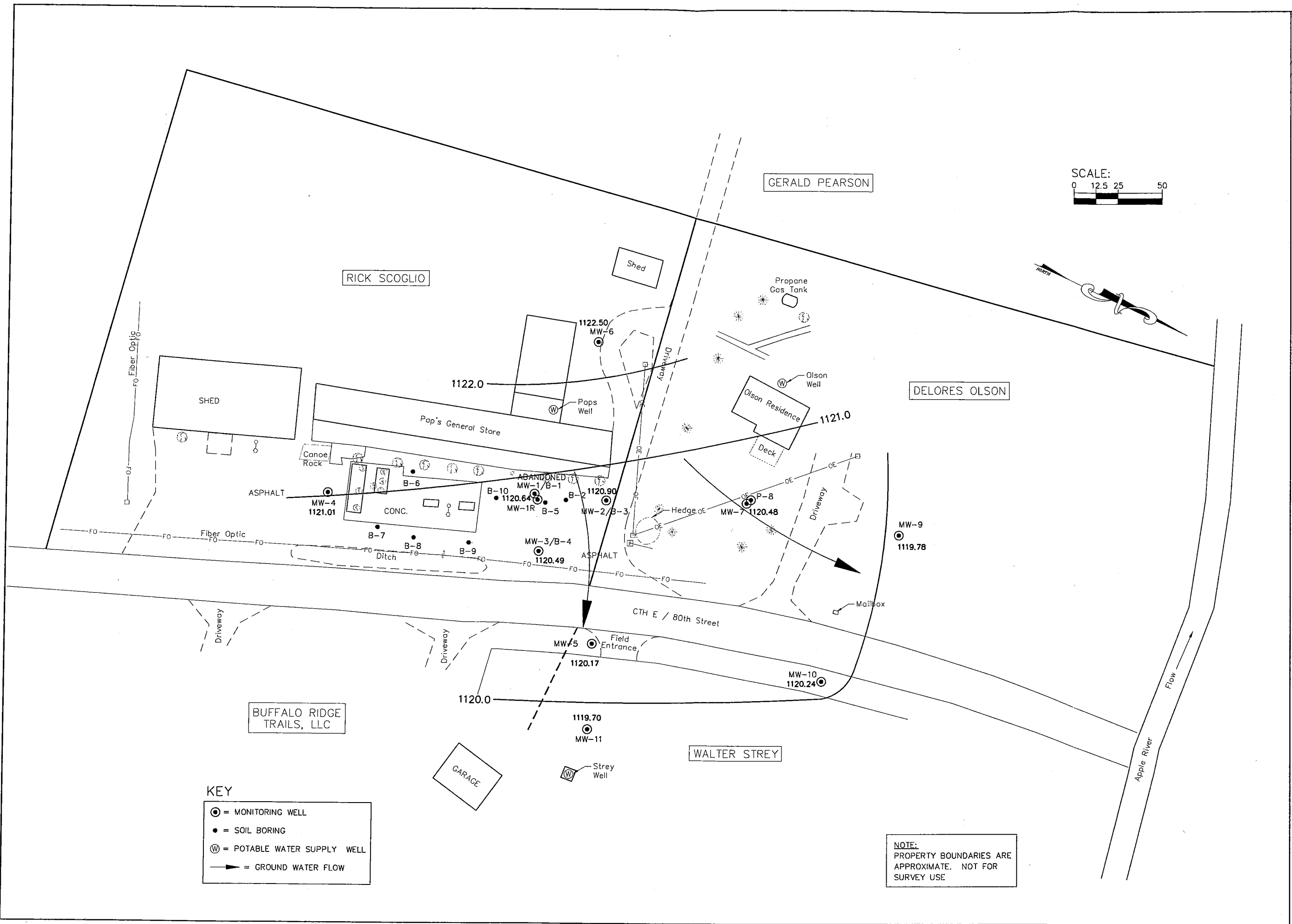
**Cedar**  
corporation

604 Wilson Avenue  
Menomonee, Wisconsin 54751  
715-235-9081  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

**PAPS GENERAL STORE**  
RICK SCOGLIO  
TOWN OF APPLE RIVER  
GROUND WATER FLOW OCTOBER 19, 2011

I:\Clients\S2880 Scoglio Rick\003 Paps Remediation\_002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

	= MONITORING WELL
	= SOIL BORING
	= POTABLE WATER SUPPLY WELL
	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

JOB NO.	S2880-002
BOOK NO.	
PROJECT	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

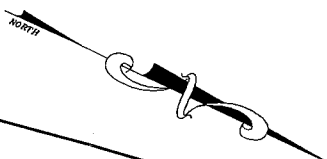
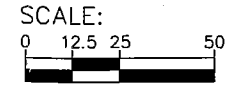
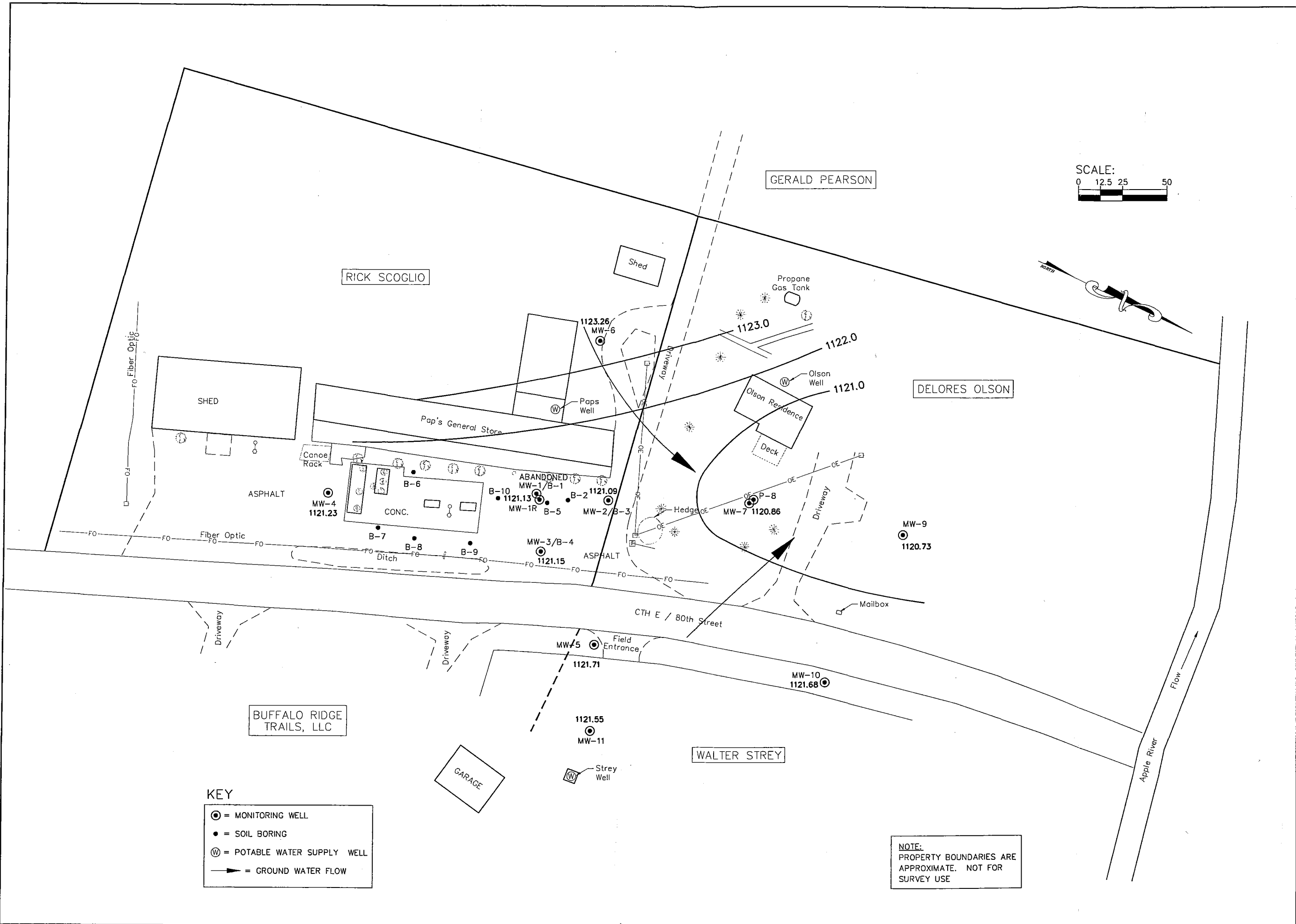
604 Wilson Avenue  
Menomonie, Wisconsin 54751

**Cedar**  
corporation

engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

715-235-9081  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

**PAPS GENERAL STORE**  
RICK SCOGLIO  
TOWN OF APPLE RIVER  
GROUND WATER FLOW APRIL 12, 2012



**KEY**

- ⊙ = MONITORING WELL
- = SOIL BORING
- ⊕ = POTABLE WATER SUPPLY WELL
- = GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

JOB NO.	S2880-002
BOOK NO.	
PROJECT	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

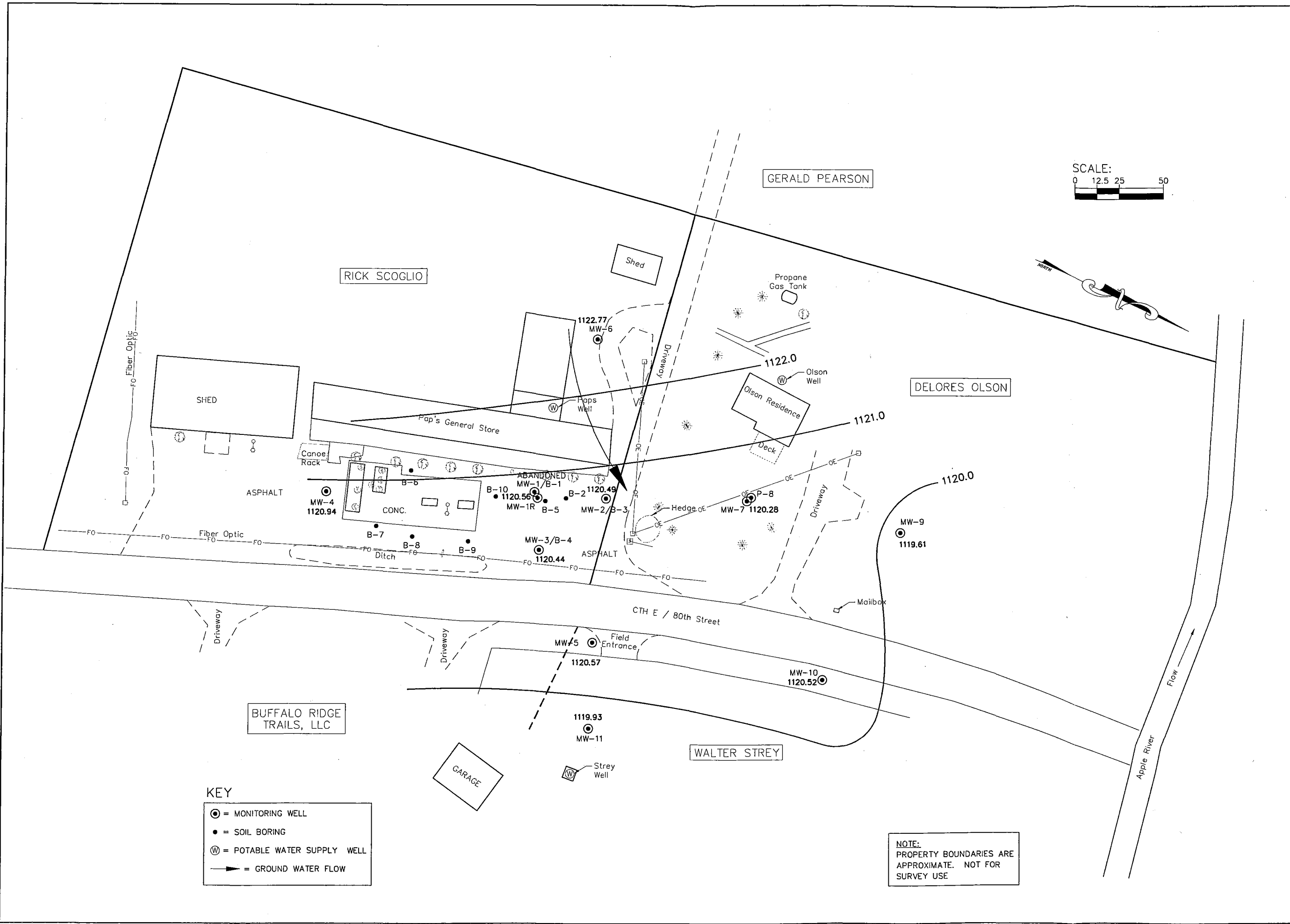
**Cedar**  
corporation

604 Wilson Avenue  
Menomonee, Wisconsin 54751  
715-235-9081  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

**PAPS GENERAL STORE**  
RICK SCOGLIO  
TOWN OF APPLE RIVER  
GROUND WATER FLOW APRIL 30, 2013

I:\Clients\S2880 Scoglio Rick\003 Paps Remediation, 002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

- ⊙ = MONITORING WELL
- = SOIL BORING
- ⊕ = POTABLE WATER SUPPLY WELL
- = GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

JOB NO.	S2880-002
BOOK NO.	
DRAWN BY	Pap's General Store
CHECKED BY	JNM
DATE	SEM
REVISIONS	November 6, 2000
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

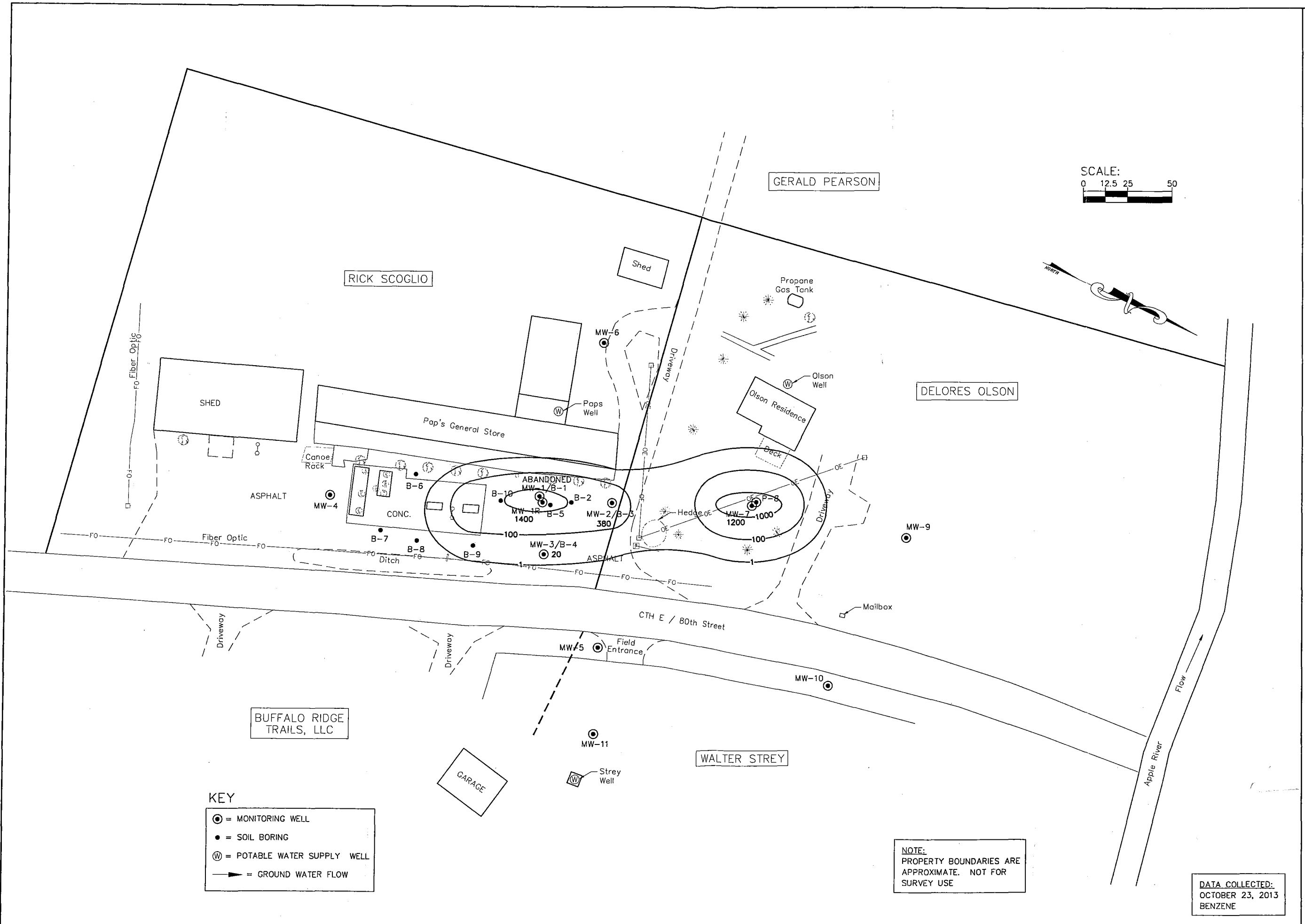
**Cedar** corporation  
 engineers • architects • planners • environmental specialists  
 land surveyors • landscape architects • interior designers

604 Wilson Avenue  
 Menomonie, Wisconsin 54751

715-235-9081  
 715-235-2227  
 www.cedarcorp.com

**PAPS GENERAL STORE**  
**RICK SCOGLIO**  
 TOWN OF APPLE RIVER  
 GROUND WATER FLOW OCTOBER 23, 2013

I:\Clients\S2880 Scoglio Rick\003 Paps Remediation\_002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

⊙	= MONITORING WELL
●	= SOIL BORING
⊕	= POTABLE WATER SUPPLY WELL
→	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

**DATA COLLECTED:**  
OCTOBER 23, 2013  
BENZENE

JOB NO.	S2880-002
BOOK NO.	
Pap's General Store	
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

**Cedar** corporation  
 engineers • architects • planners • environmental specialists  
 and surveyors • landscape architects • interior designers

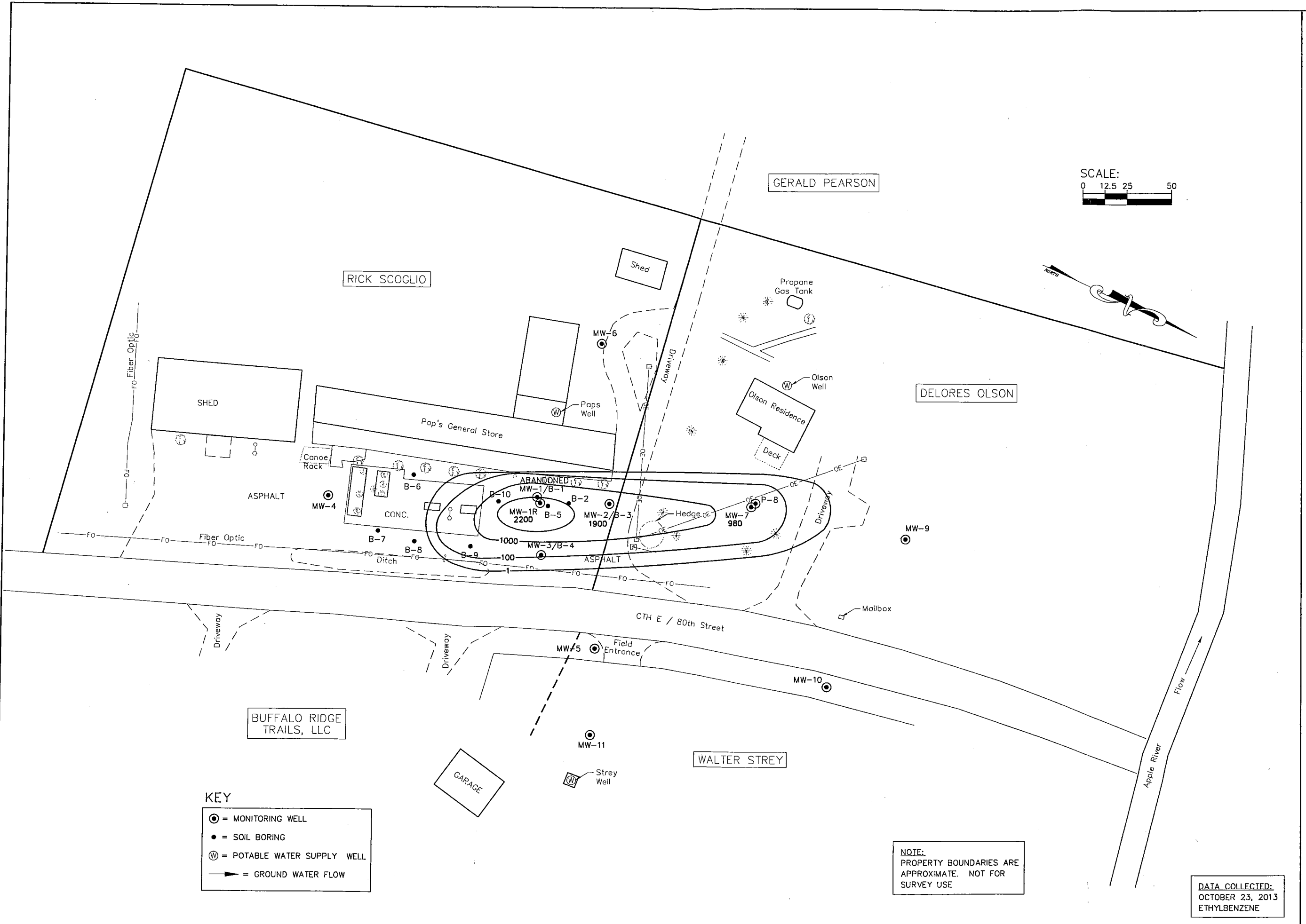
604 Wilson Avenue  
 Menomonee, Wisconsin 54751

715-235-9081  
 800-472-7372  
 FAX 715-235-2727  
 www.cedarcorp.com

**PAPS GENERAL STORE**  
**RICK SCOGLIO**  
**TOWN OF APPLE RIVER**  
**BENZENE ISOCONCENTRATION**



i:\Clients\52880 Scoglio Rick\003 Paps Remediation\_002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

⊙	= MONITORING WELL
●	= SOIL BORING
⊕	= POTABLE WATER SUPPLY WELL
→	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

**DATA COLLECTED:**  
OCTOBER 23, 2013  
ETHYLBENZENE

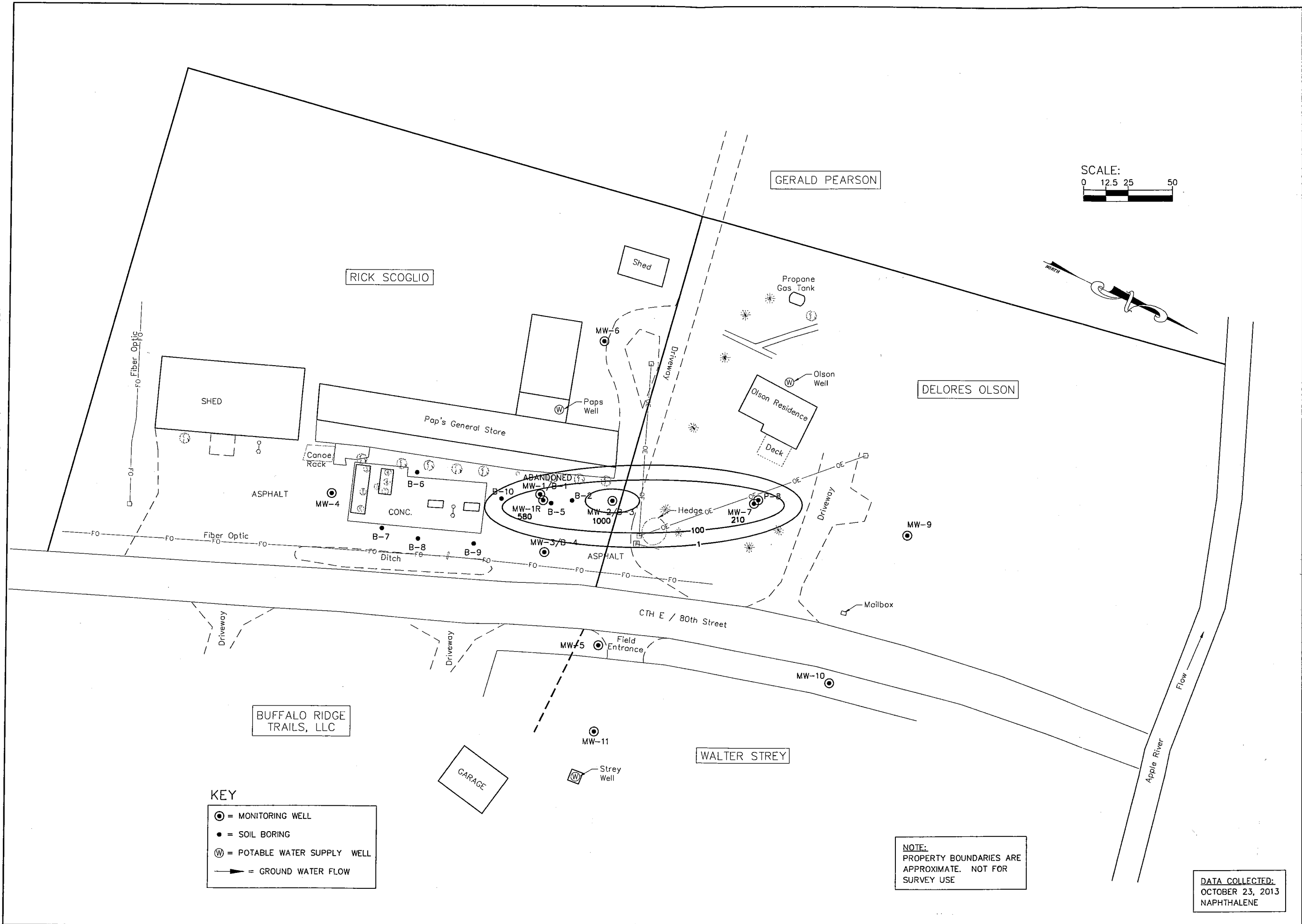
JOB NO.	S2880-002
BOOK NO.	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

**Cedar** corporation  
 604 Wilson Avenue  
 Menomonie, Wisconsin 54751  
 715-235-9081  
 715-235-2722  
 www.cedarcorp.com

engineers • architects • planners • environmental specialists  
 land surveyors • landscape architects • interior designers

**PAPS GENERAL STORE**  
**RICK SCOGLIO**  
 TOWN OF APPLE RIVER  
**ETHYLBENZENE ISOCONCENTRATION**

I:\Clients\S2880 Scoglio Rick\003 Paps Remediation, 002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



**KEY**

⊙	= MONITORING WELL
●	= SOIL BORING
⊕	= POTABLE WATER SUPPLY WELL
→	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

**DATA COLLECTED:**  
OCTOBER 23, 2013  
NAPHTHALENE

JOB NO.	S2880-002
BOOK NO.	
PROJECT	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

604 Wilson Avenue  
Menomonie, Wisconsin 54751

**Cedar** corporation

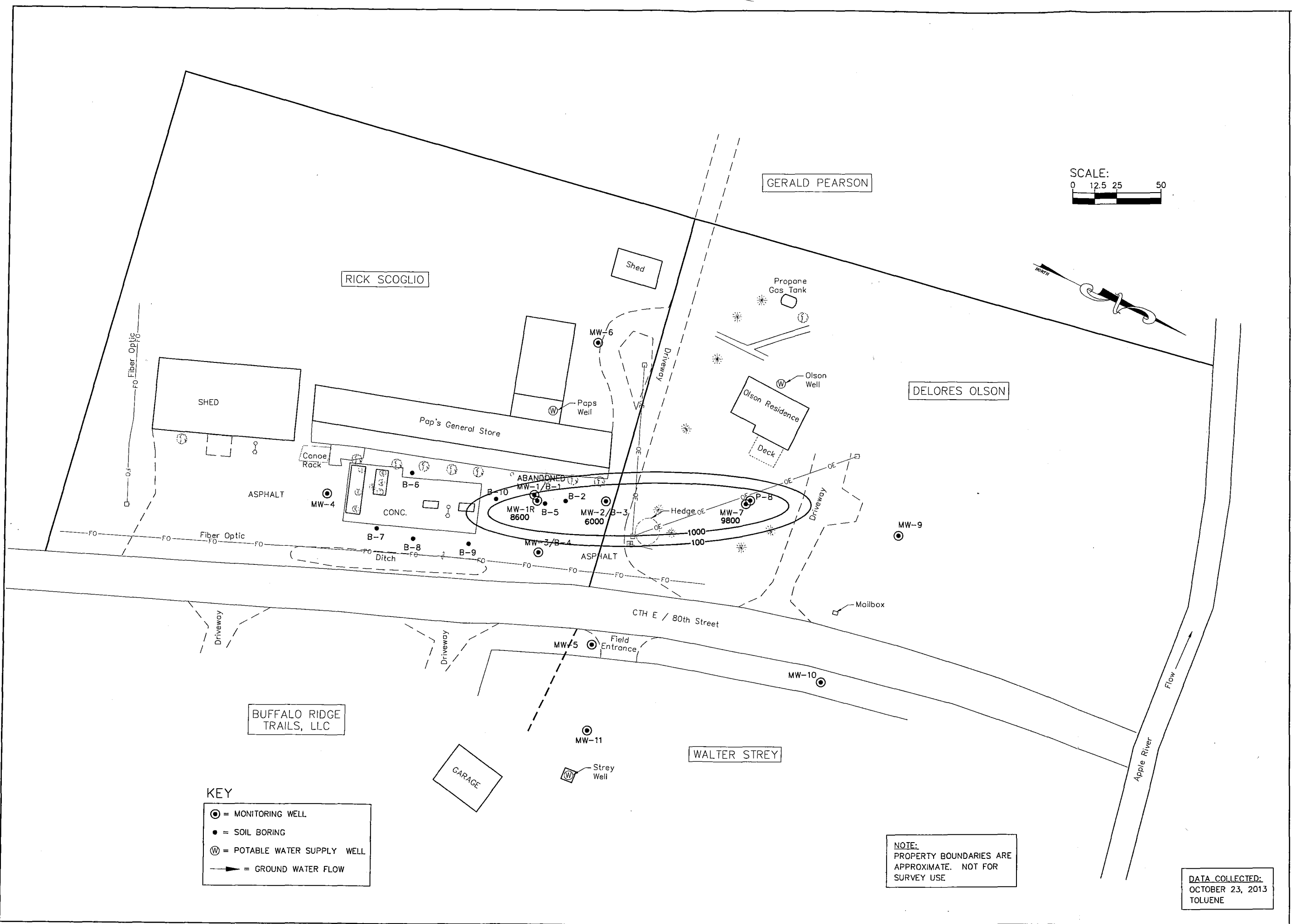
715-235-9081  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

engineers • architects • planners • environmental specialists  
land surveyors • landscape architects • interior designers

**PAPS GENERAL STORE**  
RICK SCOGLIO  
TOWN OF APPLE RIVER  
NAPHTHALENE ISOCONCENTRATION

FIGURE NO.  
12 OF 13

i:\Clients\S2880 Scoglio Rick\003 Paps Remediation, 002 Finalize Env Investigation\dwg\S002base.dwg 1/22/2014 7:17:19 AM CST



JOB NO.	S2880-002
BOOK NO.	
PROJECT	Pap's General Store
DRAWN BY	JNM
CHECKED BY	SEM
DATE	November 6, 2000
REVISIONS	JANUARY 2014
REFERENCE FILE	S002base.dwg
DRAWING FILE	S002base.dwg

604 Wilson Avenue  
Menomonie, Wisconsin 54751

**Cedar**  
corporation

engineers • architects • planners • environmental specialists  
land surveys • landscape architects • interior designers

715-235-9091  
800-472-7372  
FAX 715-235-2727  
www.cedarcorp.com

**PAPS GENERAL STORE**  
RICK SCOGLIO  
TOWN OF APPLE RIVER  
TOLUENE ISOCONCENTRATION

FIGURE NO.  
13 of 13

**KEY**

⊙	= MONITORING WELL
●	= SOIL BORING
⊕	= POTABLE WATER SUPPLY WELL
→	= GROUND WATER FLOW

**NOTE:**  
PROPERTY BOUNDARIES ARE APPROXIMATE. NOT FOR SURVEY USE

**DATA COLLECTED:**  
OCTOBER 23, 2013  
TOLUENE

## **LABORATORY ANALYTICAL REPORTS**



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Watertown  
1101 Industrial Drive, Suites 9 & 10  
Watertown, WI 53094  
Tel: 800-833-7036

TestAmerica Job ID: WUJ0679  
Client Project/Site: 2880 Balsam Lake, WI  
Client Project Description: Pap's General Store

For:  
CEDAR CORPORATION  
604 Wilson Avenue  
Menomonie, WI 54751

Attn: Mr. Matt Taylor

*Brian DeJong*

Authorized for release by:  
10/27/2011 07:01:14 AM

Brian DeJong  
Organics Manager  
Brian.DeJong@testamericainc.com

Designee for

Dan F. Milewsky  
Project Manager  
Dan.Milewsky@testamericainc.com

LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Detection Summary . . . . .	4
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	13
QC Sample Results . . . . .	15
QC Association Summary . . . . .	18
Lab Chronicle . . . . .	20
Certification Summary . . . . .	23
Method Summary . . . . .	24
Sample Summary . . . . .	25
Chain of Custody . . . . .	26



## Definitions/Glossary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

### Qualifiers

#### GCMS Volatiles

Qualifier	Qualifier Description
E	Concentration exceeds the calibration range and therefore result is semi-quantitative.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



## Detection Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

### Client Sample ID: MW-1R

### Lab Sample ID: WUJ0679-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4300		200	20	ug/L	100		SW 8260B	Total
Ethylbenzene	2900		200	50	ug/L	100		SW 8260B	Total
Naphthalene	390		500	25	ug/L	100		SW 8260B	Total
1,2,4-Trimethylbenzene	2400		200	20	ug/L	100		SW 8260B	Total
1,3,5-Trimethylbenzene	660		200	20	ug/L	100		SW 8260B	Total
Xylenes, Total	16000		200	50	ug/L	100		SW 8260B	Total
Toluene - RE1	25000		800	200	ug/L	400		SW 8260B	Total

### Client Sample ID: MW-2

### Lab Sample ID: WUJ0679-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - RE1	550		400	40	ug/L	200		SW 8260B	Total
Ethylbenzene - RE1	3200		400	100	ug/L	200		SW 8260B	Total
Naphthalene - RE1	960		1000	50	ug/L	200		SW 8260B	Total
Toluene - RE1	14000		400	100	ug/L	200		SW 8260B	Total
1,2,4-Trimethylbenzene - RE1	6200		400	40	ug/L	200		SW 8260B	Total
1,3,5-Trimethylbenzene - RE1	1800		400	40	ug/L	200		SW 8260B	Total
Xylenes, Total - RE1	23000		400	100	ug/L	200		SW 8260B	Total

### Client Sample ID: MW-3

### Lab Sample ID: WUJ0679-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2		2.0	0.20	ug/L	1.0		SW 8260B	Total
Ethylbenzene	4.1		2.0	0.50	ug/L	1.0		SW 8260B	Total
1,2,4-Trimethylbenzene	0.59		2.0	0.20	ug/L	1.0		SW 8260B	Total
1,3,5-Trimethylbenzene	0.36		2.0	0.20	ug/L	1.0		SW 8260B	Total
Xylenes, Total	13		2.0	0.50	ug/L	1.0		SW 8260B	Total

### Client Sample ID: MW-4

### Lab Sample ID: WUJ0679-04

No Detections

### Client Sample ID: MW-5

### Lab Sample ID: WUJ0679-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30		2.0	0.20	ug/L	1.0		SW 8260B	Total
Ethylbenzene	110		2.0	0.50	ug/L	1.0		SW 8260B	Total
Naphthalene	15		5.0	0.25	ug/L	1.0		SW 8260B	Total
1,2,4-Trimethylbenzene	79		2.0	0.20	ug/L	1.0		SW 8260B	Total
1,3,5-Trimethylbenzene	30		2.0	0.20	ug/L	1.0		SW 8260B	Total
Xylenes, Total	330		2.0	0.50	ug/L	1.0		SW 8260B	Total
Toluene - RE1	300		10	2.5	ug/L	5.0		SW 8260B	Total

### Client Sample ID: MW-6

### Lab Sample ID: WUJ0679-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.42		5.0	0.25	ug/L	1.0		SW 8260B	Total
1,2,4-Trimethylbenzene	0.22		2.0	0.20	ug/L	1.0		SW 8260B	Total

### Client Sample ID: MW-7

### Lab Sample ID: WUJ0679-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	81		5.0	0.25	ug/L	1.0		SW 8260B	Total
1,3,5-Trimethylbenzene	89		2.0	0.20	ug/L	1.0		SW 8260B	Total

# Detection Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Client Sample ID: MW-7 (Continued)

Lab Sample ID: WUJ0679-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - RE1	530		160	16	ug/L	80		SW 8260B	Total
Ethylbenzene - RE1	470		160	40	ug/L	80		SW 8260B	Total
Toluene - RE1	5000		160	40	ug/L	80		SW 8260B	Total
1,2,4-Trimethylbenzene - RE1	320		160	16	ug/L	80		SW 8260B	Total
Xylenes, Total - RE1	2700		160	40	ug/L	80		SW 8260B	Total

## Client Sample ID: P-8

Lab Sample ID: WUJ0679-08

No Detections

## Client Sample ID: MW-9

Lab Sample ID: WUJ0679-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.30		5.0	0.25	ug/L	1.0		SW 8260B	Total
Toluene	0.99		2.0	0.50	ug/L	1.0		SW 8260B	Total

## Client Sample ID: MW-10

Lab Sample ID: WUJ0679-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.64		2.0	0.50	ug/L	1.0		SW 8260B	Total

## Client Sample ID: MW-11

Lab Sample ID: WUJ0679-11

No Detections

## Client Sample ID: Olson

Lab Sample ID: WUJ0679-12

No Detections

## Client Sample ID: Strey

Lab Sample ID: WUJ0679-13

No Detections

## Client Sample ID: Paps

Lab Sample ID: WUJ0679-14

No Detections

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-1R**

**Lab Sample ID: WUJ0679-01**

Date Collected: 10/19/11 13:30

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4300		200	20	ug/L		10/25/11 07:19	10/26/11 03:05	100
Ethylbenzene	2900		200	50	ug/L		10/25/11 07:19	10/26/11 03:05	100
Methyl tert-Butyl Ether	<50		200	50	ug/L		10/25/11 07:19	10/26/11 03:05	100
Naphthalene	390		500	25	ug/L		10/25/11 07:19	10/26/11 03:05	100
1,2,4-Trimethylbenzene	2400		200	20	ug/L		10/25/11 07:19	10/26/11 03:05	100
1,3,5-Trimethylbenzene	660		200	20	ug/L		10/25/11 07:19	10/26/11 03:05	100
Xylenes, Total	16000		200	50	ug/L		10/25/11 07:19	10/26/11 03:05	100
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	101		80 - 120				10/25/11 07:19	10/26/11 03:05	100
Toluene-d8	101		80 - 120				10/25/11 07:19	10/26/11 03:05	100
4-Bromofluorobenzene	99		80 - 120				10/25/11 07:19	10/26/11 03:05	100

**Method: SW 8260B - VOCs by SW8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	25000		800	200	ug/L		10/26/11 12:48	10/26/11 18:20	400
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	101		80 - 120				10/26/11 12:48	10/26/11 18:20	400
Toluene-d8	100		80 - 120				10/26/11 12:48	10/26/11 18:20	400
4-Bromofluorobenzene	101		80 - 120				10/26/11 12:48	10/26/11 18:20	400

**Client Sample ID: MW-2**

**Lab Sample ID: WUJ0679-02**

Date Collected: 10/19/11 11:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	550		400	40	ug/L		10/26/11 12:48	10/26/11 18:47	200
Ethylbenzene	3200		400	100	ug/L		10/26/11 12:48	10/26/11 18:47	200
Methyl tert-Butyl Ether	<100		400	100	ug/L		10/26/11 12:48	10/26/11 18:47	200
Naphthalene	960		1000	50	ug/L		10/26/11 12:48	10/26/11 18:47	200
Toluene	14000		400	100	ug/L		10/26/11 12:48	10/26/11 18:47	200
1,2,4-Trimethylbenzene	6200		400	40	ug/L		10/26/11 12:48	10/26/11 18:47	200
1,3,5-Trimethylbenzene	1800		400	40	ug/L		10/26/11 12:48	10/26/11 18:47	200
Xylenes, Total	23000		400	100	ug/L		10/26/11 12:48	10/26/11 18:47	200
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/26/11 12:48	10/26/11 18:47	200
Toluene-d8	101		80 - 120				10/26/11 12:48	10/26/11 18:47	200
4-Bromofluorobenzene	100		80 - 120				10/26/11 12:48	10/26/11 18:47	200

**Client Sample ID: MW-3**

**Lab Sample ID: WUJ0679-03**

Date Collected: 10/19/11 11:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.2		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:07	1.0

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-3**

**Lab Sample ID: WUJ0679-03**

Date Collected: 10/19/11 11:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	4.1		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
1,2,4-Trimethylbenzene	0.59		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
1,3,5-Trimethylbenzene	0.36		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
Xylenes, Total	13		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:07	1.0
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/25/11 07:19	10/25/11 23:07	1.0
Toluene-d8	100		80 - 120				10/25/11 07:19	10/25/11 23:07	1.0
4-Bromofluorobenzene	100		80 - 120				10/25/11 07:19	10/25/11 23:07	1.0

**Client Sample ID: MW-4**

**Lab Sample ID: WUJ0679-04**

Date Collected: 10/19/11 10:30

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 23:34	1.0
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/25/11 07:19	10/25/11 23:34	1.0
Toluene-d8	100		80 - 120				10/25/11 07:19	10/25/11 23:34	1.0
4-Bromofluorobenzene	100		80 - 120				10/25/11 07:19	10/25/11 23:34	1.0

**Client Sample ID: MW-5**

**Lab Sample ID: WUJ0679-05**

Date Collected: 10/19/11 10:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	30		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
Ethylbenzene	110		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
Naphthalene	15		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
1,2,4-Trimethylbenzene	79		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
1,3,5-Trimethylbenzene	30		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
Xylenes, Total	330		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:00	1.0
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	101		80 - 120				10/25/11 07:19	10/26/11 00:00	1.0

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-5**

**Lab Sample ID: WUJ0679-05**

Date Collected: 10/19/11 10:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B (Continued)**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8	101		80 - 120	10/25/11 07:19	10/26/11 00:00	1.0
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/26/11 00:00	1.0

**Method: SW 8260B - VOCs by SW8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	300		10	2.5	ug/L		10/26/11 12:48	10/26/11 19:13	5.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		80 - 120	10/26/11 12:48	10/26/11 19:13	5.0
Toluene-d8	101		80 - 120	10/26/11 12:48	10/26/11 19:13	5.0
4-Bromofluorobenzene	100		80 - 120	10/26/11 12:48	10/26/11 19:13	5.0

**Client Sample ID: MW-6**

**Lab Sample ID: WUJ0679-06**

Date Collected: 10/19/11 11:00

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
Naphthalene	0.42		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
1,2,4-Trimethylbenzene	0.22		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:26	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:26	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		80 - 120	10/25/11 07:19	10/26/11 00:26	1.0
Toluene-d8	100		80 - 120	10/25/11 07:19	10/26/11 00:26	1.0
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/26/11 00:26	1.0

**Client Sample ID: MW-7**

**Lab Sample ID: WUJ0679-07**

Date Collected: 10/19/11 09:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 00:53	1.0
Naphthalene	81		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 00:53	1.0
1,3,5-Trimethylbenzene	89		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 00:53	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		80 - 120	10/25/11 07:19	10/26/11 00:53	1.0
Toluene-d8	102		80 - 120	10/25/11 07:19	10/26/11 00:53	1.0
4-Bromofluorobenzene	99		80 - 120	10/25/11 07:19	10/26/11 00:53	1.0

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-7**

**Lab Sample ID: WUJ0679-07**

Date Collected: 10/19/11 09:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	530		160	16	ug/L		10/26/11 12:48	10/26/11 19:40	80
Ethylbenzene	470		160	40	ug/L		10/26/11 12:48	10/26/11 19:40	80
Toluene	5000		160	40	ug/L		10/26/11 12:48	10/26/11 19:40	80
1,2,4-Trimethylbenzene	320		160	16	ug/L		10/26/11 12:48	10/26/11 19:40	80
Xylenes, Total	2700		160	40	ug/L		10/26/11 12:48	10/26/11 19:40	80
<b>Surrogate</b>									
	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/26/11 12:48	10/26/11 19:40	80
Toluene-d8	100		80 - 120				10/26/11 12:48	10/26/11 19:40	80
4-Bromofluorobenzene	101		80 - 120				10/26/11 12:48	10/26/11 19:40	80

**Client Sample ID: P-8**

**Lab Sample ID: WUJ0679-08**

Date Collected: 10/19/11 09:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:06	1.0
<b>Surrogate</b>									
	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	103		80 - 120				10/26/11 12:48	10/26/11 20:06	1.0
Toluene-d8	100		80 - 120				10/26/11 12:48	10/26/11 20:06	1.0
4-Bromofluorobenzene	100		80 - 120				10/26/11 12:48	10/26/11 20:06	1.0

**Client Sample ID: MW-9**

**Lab Sample ID: WUJ0679-09**

Date Collected: 10/19/11 09:20

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
Naphthalene	0.30		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
Toluene	0.99		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 01:46	1.0
<b>Surrogate</b>									
	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/25/11 07:19	10/26/11 01:46	1.0
Toluene-d8	100		80 - 120				10/25/11 07:19	10/26/11 01:46	1.0

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-9**

**Lab Sample ID: WUJ0679-09**

Date Collected: 10/19/11 09:20

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B (Continued)**

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/26/11 01:46	1.0

**Client Sample ID: MW-10**

**Lab Sample ID: WUJ0679-10**

Date Collected: 10/19/11 10:00

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
Toluene	0.64		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:12	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:12	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		80 - 120	10/25/11 07:19	10/26/11 02:12	1.0
Toluene-d8	100		80 - 120	10/25/11 07:19	10/26/11 02:12	1.0
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/26/11 02:12	1.0

**Client Sample ID: MW-11**

**Lab Sample ID: WUJ0679-11**

Date Collected: 10/19/11 10:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/26/11 02:39	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/26/11 02:39	1.0

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		80 - 120	10/25/11 07:19	10/26/11 02:39	1.0
Toluene-d8	101		80 - 120	10/25/11 07:19	10/26/11 02:39	1.0
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/26/11 02:39	1.0

## Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: Olson**

**Lab Sample ID: WUJ0679-12**

Date Collected: 10/19/11 09:15

Matrix: Drinking Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:32	1.0
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	103		80 - 120				10/26/11 12:48	10/26/11 20:32	1.0
Toluene-d8	100		80 - 120				10/26/11 12:48	10/26/11 20:32	1.0
4-Bromofluorobenzene	100		80 - 120				10/26/11 12:48	10/26/11 20:32	1.0

**Client Sample ID: Strey**

**Lab Sample ID: WUJ0679-13**

Date Collected: 10/19/11 09:30

Matrix: Drinking Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 20:59	1.0
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		80 - 120				10/26/11 12:48	10/26/11 20:59	1.0
Toluene-d8	101		80 - 120				10/26/11 12:48	10/26/11 20:59	1.0
4-Bromofluorobenzene	100		80 - 120				10/26/11 12:48	10/26/11 20:59	1.0

**Client Sample ID: Paps**

**Lab Sample ID: WUJ0679-14**

Date Collected: 10/19/11 11:45

Matrix: Drinking Water

Date Received: 10/21/11 12:23

**Method: SW 8260B - VOCs by SW8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
Naphthalene	<0.25		5.0	0.25	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
Toluene	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 12:48	10/26/11 21:25	1.0
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/26/11 12:48	10/26/11 21:25	1.0



# Client Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: Paps**

**Lab Sample ID: WUJ0679-14**

Date Collected: 10/19/11 11:45

Matrix: Drinking Water

Date Received: 10/21/11 12:23

<u>Surrogate</u>	<u>% Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane	102		80 - 120	10/26/11 12:48	10/26/11 21:25	1.0
Toluene-d8	101		80 - 120	10/26/11 12:48	10/26/11 21:25	1.0
4-Bromofluorobenzene	101		80 - 120	10/26/11 12:48	10/26/11 21:25	1.0

5

## Surrogate Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

### Method: SW 8260B - VOCs by SW8260B

Matrix: Drinking Water

Prep Type: Total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-120)	TOL (80-120)	BFB (80-120)
WUJ0679-12	Olson	103	100	100
WUJ0679-13	Strey	102	101	100
WUJ0679-14	Paps	102	101	101

**Surrogate Legend**  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8  
 BFB = 4-Bromofluorobenzene

### Method: SW 8260B - VOCs by SW8260B

Matrix: Ground Water

Prep Type: Total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-120)	TOL (80-120)	BFB (80-120)
WUJ0679-01	MW-1R	101	101	99
WUJ0679-01 - RE1	MW-1R	101	100	101
WUJ0679-02 - RE1	MW-2	102	101	100
WUJ0679-03	MW-3	102	100	100
WUJ0679-04	MW-4	102	100	100
WUJ0679-05	MW-5	101	101	100
WUJ0679-05 - RE1	MW-5	102	101	100
WUJ0679-06	MW-6	103	100	100
WUJ0679-07	MW-7	100	102	99
WUJ0679-07 - RE1	MW-7	102	100	101
WUJ0679-08 - RE1	P-8	103	100	100
WUJ0679-09	MW-9	102	100	100
WUJ0679-10	MW-10	103	100	100
WUJ0679-11	MW-11	101	101	100

**Surrogate Legend**  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8  
 BFB = 4-Bromofluorobenzene

### Method: SW 8260B - VOCs by SW8260B

Matrix: Water - NonPotable

Prep Type: Total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-120)	TOL (80-120)	BFB (80-120)
11J0354-BLK1	Method Blank	103	100	100
11J0354-BS1	Lab Control Sample	101	100	100
11J0354-MS1	MW-1R	102	101	100
11J0354-MSD1	MW-1R	101	101	100
11J0368-BLK1	Method Blank	102	101	101
11J0368-BS1	Lab Control Sample	102	100	100
11J0368-MS1	Matrix Spike	101	101	100
11J0368-MSD1	Matrix Spike Duplicate	102	100	100

**Surrogate Legend**  
 DBFM = Dibromofluoromethane

## Surrogate Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

TOL = Toluene-d8  
BFB = 4-Bromofluorobenzene



# QC Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Method: SW 8260B - VOCs by SW8260B

**Lab Sample ID: 11J0354-BLK1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: U001321**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 11J0354\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
Naphthalene	<0.25		5.0	0.25	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
Toluene	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/25/11 07:19	10/25/11 18:43	1.00
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/25/11 07:19	10/25/11 18:43	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Dibromofluoromethane	103		80 - 120	10/25/11 07:19	10/25/11 18:43	1.00
Toluene-d8	100		80 - 120	10/25/11 07:19	10/25/11 18:43	1.00
4-Bromofluorobenzene	100		80 - 120	10/25/11 07:19	10/25/11 18:43	1.00

**Lab Sample ID: 11J0354-BS1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: U001321**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 11J0354\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Ethylbenzene	50.000	46.9		ug/L		94	80 - 120
Methyl tert-Butyl Ether	50.000	51.8		ug/L		104	80 - 120
Naphthalene	50.000	41.3		ug/L		83	60 - 140
Toluene	50.000	46.5		ug/L		93	80 - 120
1,2,4-Trimethylbenzene	50.000	48.0		ug/L		96	80 - 120
1,3,5-Trimethylbenzene	50.000	47.8		ug/L		96	80 - 120
Xylenes, Total	150.00	142		ug/L		94	80 - 120

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	101		80 - 120
Toluene-d8	100		80 - 120
4-Bromofluorobenzene	100		80 - 120

**Lab Sample ID: 11J0354-MS1**  
**Matrix: Water - NonPotable**  
**Analysis Batch: U001321**

**Client Sample ID: MW-1R**  
**Prep Type: Total**  
**Prep Batch: 11J0354\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	4300		5000.0	8970		ug/L		93	80 - 120
Ethylbenzene	2900		5000.0	7620		ug/L		95	80 - 120
Methyl tert-Butyl Ether	<50		5000.0	5220		ug/L		104	80 - 120
Naphthalene	390		5000.0	4800		ug/L		88	60 - 140
Toluene	24800		5000.0	27400 E		ug/L		53	80 - 120
1,2,4-Trimethylbenzene	2400		5000.0	7300		ug/L		97	80 - 120
1,3,5-Trimethylbenzene	660		5000.0	5660		ug/L		100	80 - 120
Xylenes, Total	16000		15000	29900		ug/L		89	80 - 120

# QC Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Method: SW 8260B - VOCs by SW8260B (Continued)

Lab Sample ID: 11J0354-MS1  
Matrix: Water - NonPotable  
Analysis Batch: U001321

Client Sample ID: MW-1R  
Prep Type: Total  
Prep Batch: 11J0354\_P

Surrogate	Matrix Spike		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	102		80 - 120
Toluene-d8	101		80 - 120
4-Bromofluorobenzene	100		80 - 120

Lab Sample ID: 11J0354-MSD1  
Matrix: Water - NonPotable  
Analysis Batch: U001321

Client Sample ID: MW-1R  
Prep Type: Total  
Prep Batch: 11J0354\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	
Benzene	4300		5000.0	8740		ug/L		88	80 - 120	3	20
Ethylbenzene	2900		5000.0	7420		ug/L		91	80 - 120	3	20
Methyl tert-Butyl Ether	<50		5000.0	4920		ug/L		98	80 - 120	6	20
Naphthalene	390		5000.0	4590		ug/L		84	60 - 140	5	40
Toluene	24800		5000.0	27600 E		ug/L		56	80 - 120	0.5	20
1,2,4-Trimethylbenzene	2400		5000.0	7130		ug/L		94	80 - 120	2	20
1,3,5-Trimethylbenzene	660		5000.0	5460		ug/L		96	80 - 120	4	20
Xylenes, Total	16000		15000	29600		ug/L		88	80 - 120	1	20

Surrogate	Matrix Spike Dup		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	101		80 - 120
Toluene-d8	101		80 - 120
4-Bromofluorobenzene	100		80 - 120

Lab Sample ID: 11J0368-BLK1  
Matrix: Water - NonPotable  
Analysis Batch: U001325

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 11J0368\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.20		2.0	0.20	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
Ethylbenzene	<0.50		2.0	0.50	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
Methyl tert-Butyl Ether	<0.50		2.0	0.50	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
Naphthalene	<0.25		5.0	0.25	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
Toluene	<0.50		2.0	0.50	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
1,2,4-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
1,3,5-Trimethylbenzene	<0.20		2.0	0.20	ug/L		10/26/11 10:48	10/26/11 13:30	1.00
Xylenes, Total	<0.50		2.0	0.50	ug/L		10/26/11 10:48	10/26/11 13:30	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Dibromofluoromethane	102		80 - 120	10/26/11 10:48	10/26/11 13:30	1.00
Toluene-d8	101		80 - 120	10/26/11 10:48	10/26/11 13:30	1.00
4-Bromofluorobenzene	101		80 - 120	10/26/11 10:48	10/26/11 13:30	1.00

Lab Sample ID: 11J0368-BS1  
Matrix: Water - NonPotable  
Analysis Batch: U001325

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 11J0368\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Ethylbenzene	50.000	48.9		ug/L		98	80 - 120

# QC Sample Results

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Method: SW 8260B - VOCs by SW8260B (Continued)

Lab Sample ID: 11J0368-BS1  
Matrix: Water - NonPotable  
Analysis Batch: U001325

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 11J0368\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Methyl tert-Butyl Ether	50.000	52.9		ug/L		106	80 - 120	
Naphthalene	50.000	42.1		ug/L		84	60 - 140	
Toluene	50.000	48.4		ug/L		97	80 - 120	
1,2,4-Trimethylbenzene	50.000	49.3		ug/L		99	80 - 120	
1,3,5-Trimethylbenzene	50.000	49.2		ug/L		98	80 - 120	
Xylenes, Total	150.00	146		ug/L		98	80 - 120	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	102		80 - 120
Toluene-d8	100		80 - 120
4-Bromofluorobenzene	100		80 - 120

Lab Sample ID: 11J0368-MS1  
Matrix: Water - NonPotable  
Analysis Batch: U001325

Client Sample ID: Matrix Spike  
Prep Type: Total  
Prep Batch: 11J0368\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec.	
									Limits	
Benzene	<0.200		50.000	52.6		ug/L		105	80 - 120	
Ethylbenzene	<0.500		50.000	53.1		ug/L		106	80 - 120	
Methyl tert-Butyl Ether	<0.500		50.000	53.7		ug/L		107	80 - 120	
Naphthalene	<0.250		50.000	45.5		ug/L		91	60 - 140	
Toluene	<0.500		50.000	52.8		ug/L		106	80 - 120	
1,2,4-Trimethylbenzene	<0.200		50.000	52.1		ug/L		104	80 - 120	
1,3,5-Trimethylbenzene	<0.200		50.000	52.3		ug/L		105	80 - 120	
Xylenes, Total	<0.500		150.00	158		ug/L		105	80 - 120	

Surrogate	Matrix Spike Matrix Spike		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	101		80 - 120
Toluene-d8	101		80 - 120
4-Bromofluorobenzene	100		80 - 120

Lab Sample ID: 11J0368-MSD1  
Matrix: Water - NonPotable  
Analysis Batch: U001325

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total  
Prep Batch: 11J0368\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec.		RPD	
									Limits		RPD	Limit
Benzene	<0.200		50.000	50.7		ug/L		101	80 - 120	4	20	
Ethylbenzene	<0.500		50.000	51.3		ug/L		103	80 - 120	3	20	
Methyl tert-Butyl Ether	<0.500		50.000	51.9		ug/L		104	80 - 120	3	20	
Naphthalene	<0.250		50.000	43.7		ug/L		87	60 - 140	4	40	
Toluene	<0.500		50.000	50.7		ug/L		101	80 - 120	4	20	
1,2,4-Trimethylbenzene	<0.200		50.000	50.5		ug/L		101	80 - 120	3	20	
1,3,5-Trimethylbenzene	<0.200		50.000	51.2		ug/L		102	80 - 120	2	20	
Xylenes, Total	<0.500		150.00	153		ug/L		102	80 - 120	4	20	

Surrogate	Matrix Spike Dup Matrix Spike Dup		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	102		80 - 120
Toluene-d8	100		80 - 120
4-Bromofluorobenzene	100		80 - 120

# QC Association Summary

Client: CEDAR CORPORATION  
 Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## GCMS Volatiles

### Analysis Batch: U001321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0354-BLK1	Method Blank	Total	Water - NonPotable	SW 8260B	11J0354_P
11J0354-BS1	Lab Control Sample	Total	Water - NonPotable	SW 8260B	11J0354_P
11J0354-MS1	MW-1R	Total	Water - NonPotable	SW 8260B	11J0354_P
11J0354-MSD1	MW-1R	Total	Water - NonPotable	SW 8260B	11J0354_P
WUJ0679-01	MW-1R	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-03	MW-3	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-04	MW-4	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-05	MW-5	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-06	MW-6	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-07	MW-7	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-09	MW-9	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-10	MW-10	Total	Ground Water	SW 8260B	11J0354_P
WUJ0679-11	MW-11	Total	Ground Water	SW 8260B	11J0354_P

### Analysis Batch: U001325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0368-BLK1	Method Blank	Total	Water - NonPotable	SW 8260B	11J0368_P
11J0368-BS1	Lab Control Sample	Total	Water - NonPotable	SW 8260B	11J0368_P
11J0368-MS1	Matrix Spike	Total	Water - NonPotable	SW 8260B	11J0368_P
11J0368-MSD1	Matrix Spike Duplicate	Total	Water - NonPotable	SW 8260B	11J0368_P
WUJ0679-01 - RE1	MW-1R	Total	Ground Water	SW 8260B	11J0368_P
WUJ0679-02 - RE1	MW-2	Total	Ground Water	SW 8260B	11J0368_P
WUJ0679-05 - RE1	MW-5	Total	Ground Water	SW 8260B	11J0368_P
WUJ0679-07 - RE1	MW-7	Total	Ground Water	SW 8260B	11J0368_P
WUJ0679-08 - RE1	P-8	Total	Ground Water	SW 8260B	11J0368_P
WUJ0679-12	Olson	Total	Drinking Water	SW 8260B	11J0368_P
WUJ0679-13	Strey	Total	Drinking Water	SW 8260B	11J0368_P
WUJ0679-14	Paps	Total	Drinking Water	SW 8260B	11J0368_P

### Prep Batch: 11J0354\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0354-BLK1	Method Blank	Total	Water - NonPotable	Default Prep VOC	
11J0354-BS1	Lab Control Sample	Total	Water - NonPotable	Default Prep VOC	
11J0354-MS1	MW-1R	Total	Water - NonPotable	Default Prep VOC	
11J0354-MSD1	MW-1R	Total	Water - NonPotable	Default Prep VOC	
WUJ0679-01	MW-1R	Total	Ground Water	Default Prep VOC	
WUJ0679-03	MW-3	Total	Ground Water	Default Prep VOC	
WUJ0679-04	MW-4	Total	Ground Water	Default Prep VOC	
WUJ0679-05	MW-5	Total	Ground Water	Default Prep VOC	

## QC Association Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

### GCMS Volatiles (Continued)

#### Prep Batch: 11J0354\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
WUJ0679-06	MW-6	Total	Ground Water	Default Prep VOC	
WUJ0679-07	MW-7	Total	Ground Water	Default Prep VOC	
WUJ0679-09	MW-9	Total	Ground Water	Default Prep VOC	
WUJ0679-10	MW-10	Total	Ground Water	Default Prep VOC	
WUJ0679-11	MW-11	Total	Ground Water	Default Prep VOC	

#### Prep Batch: 11J0368\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0368-BLK1	Method Blank	Total	Water - NonPotable	Default Prep VOC	
11J0368-BS1	Lab Control Sample	Total	Water - NonPotable	Default Prep VOC	
11J0368-MS1	Matrix Spike	Total	Water - NonPotable	Default Prep VOC	
11J0368-MSD1	Matrix Spike Duplicate	Total	Water - NonPotable	Default Prep VOC	
WUJ0679-01 - RE1	MW-1R	Total	Ground Water	Default Prep VOC	
WUJ0679-02 - RE1	MW-2	Total	Ground Water	Default Prep VOC	
WUJ0679-05 - RE1	MW-5	Total	Ground Water	Default Prep VOC	
WUJ0679-07 - RE1	MW-7	Total	Ground Water	Default Prep VOC	
WUJ0679-08 - RE1	P-8	Total	Ground Water	Default Prep VOC	
WUJ0679-12	Olson	Total	Drinking Water	Default Prep VOC	
WUJ0679-13	Strey	Total	Drinking Water	Default Prep VOC	
WUJ0679-14	Paps	Total	Drinking Water	Default Prep VOC	



# Lab Chronicle

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Client Sample ID: MW-1R

Date Collected: 10/19/11 13:30

Date Received: 10/21/11 12:23

## Lab Sample ID: WUJ0679-01

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		100	U001321	10/26/11 03:05	MAE	TAL WT
Total	Prep	Default Prep VOC	RE1	1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B	RE1	400	U001325	10/26/11 18:20	MAE	TAL WT

## Client Sample ID: MW-2

Date Collected: 10/19/11 11:45

Date Received: 10/21/11 12:23

## Lab Sample ID: WUJ0679-02

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC	RE1	1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B	RE1	200	U001325	10/26/11 18:47	MAE	TAL WT

## Client Sample ID: MW-3

Date Collected: 10/19/11 11:15

Date Received: 10/21/11 12:23

## Lab Sample ID: WUJ0679-03

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/25/11 23:07	MAE	TAL WT

## Client Sample ID: MW-4

Date Collected: 10/19/11 10:30

Date Received: 10/21/11 12:23

## Lab Sample ID: WUJ0679-04

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/25/11 23:34	MAE	TAL WT

## Client Sample ID: MW-5

Date Collected: 10/19/11 10:15

Date Received: 10/21/11 12:23

## Lab Sample ID: WUJ0679-05

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 00:00	MAE	TAL WT
Total	Prep	Default Prep VOC	RE1	1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B	RE1	5.0	U001325	10/26/11 19:13	MAE	TAL WT

## Lab Chronicle

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

**Client Sample ID: MW-6**

**Lab Sample ID: WUJ0679-06**

Date Collected: 10/19/11 11:00

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 00:26	MAE	TAL WT

**Client Sample ID: MW-7**

**Lab Sample ID: WUJ0679-07**

Date Collected: 10/19/11 09:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 00:53	MAE	TAL WT
Total	Prep	Default Prep VOC	RE1	1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B	RE1	80	U001325	10/26/11 19:40	MAE	TAL WT

**Client Sample ID: P-8**

**Lab Sample ID: WUJ0679-08**

Date Collected: 10/19/11 09:45

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC	RE1	1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B	RE1	1.0	U001325	10/26/11 20:06	MAE	TAL WT

**Client Sample ID: MW-9**

**Lab Sample ID: WUJ0679-09**

Date Collected: 10/19/11 09:20

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 01:46	MAE	TAL WT

**Client Sample ID: MW-10**

**Lab Sample ID: WUJ0679-10**

Date Collected: 10/19/11 10:00

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 02:12	MAE	TAL WT

**Client Sample ID: MW-11**

**Lab Sample ID: WUJ0679-11**

Date Collected: 10/19/11 10:15

Matrix: Ground Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0354_P	10/25/11 07:19	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001321	10/26/11 02:39	MAE	TAL WT

# Lab Chronicle

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

## Client Sample ID: Olson

Lab Sample ID: WUJ0679-12

Date Collected: 10/19/11 09:15

Matrix: Drinking Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001325	10/26/11 20:32	MAE	TAL WT

## Client Sample ID: Strey

Lab Sample ID: WUJ0679-13

Date Collected: 10/19/11 09:30

Matrix: Drinking Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001325	10/26/11 20:59	MAE	TAL WT

## Client Sample ID: Paps

Lab Sample ID: WUJ0679-14

Date Collected: 10/19/11 11:45

Matrix: Drinking Water

Date Received: 10/21/11 12:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	Default Prep VOC		1.0	11J0368_P	10/26/11 12:48	MAE	TAL WT
Total	Analysis	SW 8260B		1.0	U001325	10/26/11 21:25	MAE	TAL WT

### Laboratory References:

TAL WT = TestAmerica Watertown, 1101 Industrial Drive, Suites 9 & 10, Watertown, WI 53094, TEL 800-833-7036

# Certification Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Watertown		WI Dept of Agriculture (Micro)		105-266
TestAmerica Watertown	Illinois	NELAC	5	100453
TestAmerica Watertown	Minnesota	NELAC	5	055-999-366
TestAmerica Watertown	Wisconsin	State Program	5	128053530

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



## Method Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

---

Method	Method Description	Protocol	Laboratory
SW 8260B	VOCs by SW8260B		TAL WT

---

**Protocol References:**

**Laboratory References:**

TAL WT = TestAmerica Watertown, 1101 Industrial Drive, Suites 9 & 10, Watertown, WI 53094, TEL 800-833-7036

# Sample Summary

Client: CEDAR CORPORATION  
Project/Site: 2880 Balsam Lake, WI

TestAmerica Job ID: WUJ0679

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
WUJ0679-01	MW-1R	Ground Water	10/19/11 13:30	10/21/11 12:23
WUJ0679-02	MW-2	Ground Water	10/19/11 11:45	10/21/11 12:23
WUJ0679-03	MW-3	Ground Water	10/19/11 11:15	10/21/11 12:23
WUJ0679-04	MW-4	Ground Water	10/19/11 10:30	10/21/11 12:23
WUJ0679-05	MW-5	Ground Water	10/19/11 10:15	10/21/11 12:23
WUJ0679-06	MW-6	Ground Water	10/19/11 11:00	10/21/11 12:23
WUJ0679-07	MW-7	Ground Water	10/19/11 09:45	10/21/11 12:23
WUJ0679-08	P-8	Ground Water	10/19/11 09:45	10/21/11 12:23
WUJ0679-09	MW-9	Ground Water	10/19/11 09:20	10/21/11 12:23
WUJ0679-10	MW-10	Ground Water	10/19/11 10:00	10/21/11 12:23
WUJ0679-11	MW-11	Ground Water	10/19/11 10:15	10/21/11 12:23
WUJ0679-12	Olson	Drinking Water	10/19/11 09:15	10/21/11 12:23
WUJ0679-13	Strey	Drinking Water	10/19/11 09:30	10/21/11 12:23
WUJ0679-14	Paps	Drinking Water	10/19/11 11:45	10/21/11 12:23



# TestAmerica

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036  
Fax 920-261-8120

WUJ0679

1 of 2

THE LEADER IN ENVIRONMENTAL TESTING

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?

Compliance Monitoring \_\_\_\_\_

Client Name: Cedar Corporation Client #: \_\_\_\_\_  
Address: 604 Wilson Ave  
City/State/Zip Code: Manomonic, WI 54751  
Project Manager: Scott McCurdy  
Telephone Number: 715-235-9081 Fax: \_\_\_\_\_  
Sampler Name: (Print Name) Ryan Spina  
Sampler Signature: [Signature]

Project Name: PAPS  
Project #: 2880  
Site/Location ID: Balsam Lake State: WI  
Report To: Cedar  
Invoice To: Cedar  
Quote #: PCLFA PO#: \_\_\_\_\_

E-mail address: \_\_\_\_\_

TAT Standard <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Time Date Sampled	Time Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____	REMARKS	
							HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)				

Special Instructions:

Relinquished By: <u>[Signature]</u>	Date: <u>10/20/11</u>	Time: <u>800</u>	Received By: <u>[Signature]</u>	Date: <u>10/21/11</u>	Time: <u>12:23</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Page 26 of 28

- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10

10/27/2011

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036  
Fax 920-261-8120

WUJ0679

2 of 2

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?

Compliance Monitoring

Client Name: Cedar Corporation Client #: \_\_\_\_\_  
Address: 604 Wilson Ave  
City/State/Zip Code: Menomonee, WI 54751  
Project Manager: Scott McLurdy  
Telephone Number: 715-235-9081 Fax: \_\_\_\_\_  
Sampler Name: (Print Name) Ryan Starvo  
Sampler Signature: [Signature]

Project Name: PAP 5  
Project #: 2880  
Site/Location ID: Balsam Lake State: WI  
Report To: Cedar  
Invoice To: Cedar  
Quote #: P66FA PO#: \_\_\_\_\_

E-mail address: \_\_\_\_\_

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)  Date Needed: _____  Fax Results: Y N  E-mail: <input checked="" type="checkbox"/> N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Spooly Other	Preservation & # of Containers						Analyze For:	QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____	
						HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None			Other (Specify)
SAMPLE ID														REMARKS
<u>MW-11</u>	<u>10/19/11</u>	<u>1015</u>	<u>G</u>	<u>K</u>	<u>GW</u>		<u>2</u>							<u>[Handwritten notes]</u>
<u>Olson</u>	<u>[Arrow]</u>	<u>915</u>	<u>[Arrow]</u>	<u>[Arrow]</u>	<u>DW</u>		<u>[Arrow]</u>							
<u>Stray</u>	<u>[Arrow]</u>	<u>430</u>	<u>[Arrow]</u>	<u>[Arrow]</u>	<u>[Arrow]</u>		<u>[Arrow]</u>							
<u>Pap 5</u>	<u>[Arrow]</u>	<u>1145</u>	<u>[Arrow]</u>	<u>[Arrow]</u>	<u>[Arrow]</u>		<u>[Arrow]</u>							

Special Instructions:

Relinquished By: [Signature] Date: 10/20/11 Time: 8:00  
Received By: [Signature] Date: 10/21/11 Time: 12:23

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LABORATORY COMMENTS:

Init Lab Temp: \_\_\_\_\_  
Rec Lab Temp: \_\_\_\_\_  
Custody/Seals: Y N N/A [Initials]  
Bottles Supplied by TestAmerica:  N  
Method of Shipment: DUNHAM

- 11
- 12
- 13
- 14





### Cooler Receipt Log

Work Order: WU50679 Client Name/Project: CDAR CORP # of Coolers: 1

1. How did samples arrive?  Dunham  Fed-Ex  UPS  TestAmerica  Client  USPS  Speedee  \_\_\_\_\_

Date/time cooler was opened: 10/21/11 12:23 By: ADAM TEMP. 1.1°C

2. Were custody seals intact, signed and dated correctly?.....  Intact  Broken  ~~NA~~
3. TAT (Turn Around Time) .....  SUBCONTRACTED  HOLD  STANDARD  RUSH
4. Were samples on ice? .....  Yes  No  Water  Ice & Water
5. Bottles supplied by Test America? .....  Yes  No
6. Number of containers are noted on COC (Chain of Custody) ? .....  Yes  No
7. Matrix is identified on COC ? .....  Yes  No
8. Did all sample containers arrive in good condition? .....  OK  Broken  Frozen  Slushy
9. Are there any short hold time tests ? (48hrs or less) .....  No  Yes
- Past Hold?.....  No  Yes

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD      CBOD	Aqueous Organic Prep
Fecal Bacteria (orange)		BNA 6270      DRO (HCL amber)
Total Bacteria (blue)		Herbs      PAH (NT amber)
MPN Bacteria (black)	Nitrite NO2      Nitrate NO3	PCBs      Pest/PCBs
SPC/HPC (standard plate count/ Hydrophilic plate count – yellow)	OrthoPhosphate or OrthoPhosphorus	PNA
T. Residual Chlorine (NT bottle)	Surfactants (MBAS)	TS (Total Solids)      TDS
CR3 or CR6 (Hex Chromium VI – NT bottle)	Sulfite	TSS (Total Suspended Solids)
Dissolved Oxygen (DO)	Turbidity	Sulfide
		Volatile Solids

10. Ops Mgr, PM or Analyst informed of short hold? .... Who \_\_\_\_\_ When \_\_\_\_\_
11. Other than short hold test, were any samples within 2 days of their hold date .....  No  Yes  
     Or past their expiration of hold time .....  No  Yes
12. Is the date and time of collection recorded on COC? Date.....  Yes  No on the containers  Yes  No  
     Time .....  Yes  No on the containers  Yes  No
13. Are dissolved parameters field filtered or being filtered in the lab? .....  Field  Lab  ~~NA~~
14. Are sample volumes adequate and preservatives correct for test requested? Vol...  Yes  No  
     Preservatives...  Yes  No
15. Were correct containers used for the analysis requested? .....  Yes  No
16. Do VOC samples have air bubbles >6mm ? .....  No  Yes  NA
17. Is an aqueous Trip Blank included?.....  Yes  No  NA
18. If received, how were DRO soil samples received? .....  Weighed glass jar  Packed jar
19. Is a Methanol Trip Blank included? .....  Yes  glass jar  vial .....  No  NA
20. How were VOC soils received?  Methanol  Sodium Bleulfate  Packed Jar  Encore  Other  Water (see options\*\*\*)  
     \*\*\*  Within 48hrs of sampling  Past 48hrs of sampling  Frozen  Not Frozen
21. Were all sample containers received and match the Sample Ids listed on COC?  Yes  No See COC

If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

---



---



---

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

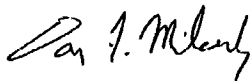
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-45511-1  
Client Project/Site: Paps Store 2880

For:  
Cedar Corporation  
604 Wilson Avenue  
Menomonie, Wisconsin 54751

Attn: Scott McCurdy



Authorized for release by:  
4/26/2012 6:45:15 PM

Dan Milewsky  
Project Manager II  
dan.milewsky@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Detection Summary . . . . .	4
Method Summary . . . . .	6
Sample Summary . . . . .	7
Client Sample Results . . . . .	8
Definitions . . . . .	21
QC Association . . . . .	22
Surrogate Summary . . . . .	24
QC Sample Results . . . . .	25
Certification Summary . . . . .	28
Chain of Custody . . . . .	30
Receipt Checklists . . . . .	32



# Case Narrative

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

---

**Job ID: 500-45511-1**

---

**Laboratory: TestAmerica Nashville**

Narrative

No WI PVOC matrix spike or matrix spike duplicate analyzed due to insufficient sample volume.

NELAC Certification

NELAC certifications are not held for the following analytes included in this report:

<u>Method</u>	<u>Matrix</u>	<u>Analyte</u>
WDNR GRO	Water	1,2,4-Trimethylbenzene
		1,3,5-Trimethylbenzene
		Benzene
		Ethylbenzene
		Methyl tert-Butyl Ether
		Naphthalene
		Toluene
		Xylenes, total

## Detection Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

### Client Sample ID: MW-1R

Lab Sample ID: 500-45511-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - RE1	3600		50.0	25.0	ug/L	100		WDNR GRO	Total
Ethylbenzene - RE1	3020		50.0	25.0	ug/L	100		WDNR GRO	Total
Naphthalene - RE1	545		500	250	ug/L	100		WDNR GRO	Total
Toluene - RE1	20300		50.0	25.0	ug/L	100		WDNR GRO	Total
1,2,4-Trimethylbenzene - RE1	2270		50.0	25.0	ug/L	100		WDNR GRO	Total
1,3,5-Trimethylbenzene - RE1	638		50.0	25.0	ug/L	100		WDNR GRO	Total
Xylenes, total - RE1	14000		50.0	25.0	ug/L	100		WDNR GRO	Total

### Client Sample ID: MW-2

Lab Sample ID: 500-45511-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - RE1	586		50.0	25.0	ug/L	100		WDNR GRO	Total
Ethylbenzene - RE1	2640		50.0	25.0	ug/L	100		WDNR GRO	Total
Naphthalene - RE1	1030		500	250	ug/L	100		WDNR GRO	Total
Methyl tert-Butyl Ether - RE1	1090		50.0	25.0	ug/L	100		WDNR GRO	Total
Toluene - RE1	9640		50.0	25.0	ug/L	100		WDNR GRO	Total
1,2,4-Trimethylbenzene - RE1	3020		50.0	25.0	ug/L	100		WDNR GRO	Total
1,3,5-Trimethylbenzene - RE1	940		50.0	25.0	ug/L	100		WDNR GRO	Total
Xylenes, total - RE1	13600		50.0	25.0	ug/L	100		WDNR GRO	Total

### Client Sample ID: MW-3

Lab Sample ID: 500-45511-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene - RE1	12.5		0.500	0.250	ug/L	1.00		WDNR GRO	Total
Methyl tert-Butyl Ether - RE1	0.411	J	0.500	0.250	ug/L	1.00		WDNR GRO	Total

### Client Sample ID: MW-4

Lab Sample ID: 500-45511-4

No Detections

### Client Sample ID: MW-5

Lab Sample ID: 500-45511-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-Butyl Ether	116		0.500	0.250	ug/L	1.00		WDNR GRO	Total
Benzene - RE1	164		25.0	12.5	ug/L	50.0		WDNR GRO	Total
Ethylbenzene - RE1	1060		25.0	12.5	ug/L	50.0		WDNR GRO	Total
Naphthalene - RE1	263		250	125	ug/L	50.0		WDNR GRO	Total
Toluene - RE1	3420		25.0	12.5	ug/L	50.0		WDNR GRO	Total
1,2,4-Trimethylbenzene - RE1	909		25.0	12.5	ug/L	50.0		WDNR GRO	Total
1,3,5-Trimethylbenzene - RE1	319		25.0	12.5	ug/L	50.0		WDNR GRO	Total
Xylenes, total - RE1	3420		25.0	12.5	ug/L	50.0		WDNR GRO	Total

### Client Sample ID: MW-6

Lab Sample ID: 500-45511-6

No Detections

### Client Sample ID: MW-7

Lab Sample ID: 500-45511-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-Butyl Ether	191		0.500	0.250	ug/L	1.00		WDNR GRO	Total
Benzene - RE1	40.1		5.00	2.50	ug/L	10.0		WDNR GRO	Total
Ethylbenzene - RE1	505		5.00	2.50	ug/L	10.0		WDNR GRO	Total
Naphthalene - RE1	136		50.0	25.0	ug/L	10.0		WDNR GRO	Total
Toluene - RE1	696		5.00	2.50	ug/L	10.0		WDNR GRO	Total

## Detection Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

### Client Sample ID: MW-7 (Continued)

Lab Sample ID: 500-45511-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene - RE1	525		5.00	2.50	ug/L	10.0		WDNR GRO	Total
1,3,5-Trimethylbenzene - RE1	151		5.00	2.50	ug/L	10.0		WDNR GRO	Total
Xylenes, total - RE1	2400		5.00	2.50	ug/L	10.0		WDNR GRO	Total

### Client Sample ID: PZ-8

Lab Sample ID: 500-45511-8

No Detections

### Client Sample ID: MW-9

Lab Sample ID: 500-45511-9

No Detections

### Client Sample ID: MW-10

Lab Sample ID: 500-45511-10

No Detections

### Client Sample ID: MW-11

Lab Sample ID: 500-45511-11

No Detections

### Client Sample ID: OLSON

Lab Sample ID: 500-45511-12

No Detections

### Client Sample ID: PAPS

Lab Sample ID: 500-45511-13

No Detections

## Method Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

---

Method	Method Description	Protocol	Laboratory
WDNR GRO	Petroleum Volatile Organic Compounds		TAL NSH

---

**Protocol References:**

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

5

## Sample Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-45511-1	MW-1R	Water	04/12/12 11:00	04/17/12 10:20
500-45511-2	MW-2	Water	04/12/12 11:15	04/17/12 10:20
500-45511-3	MW-3	Water	04/12/12 11:15	04/17/12 10:20
500-45511-4	MW-4	Water	04/12/12 11:00	04/17/12 10:20
500-45511-5	MW-5	Water	04/12/12 10:15	04/17/12 10:20
500-45511-6	MW-6	Water	04/12/12 10:10	04/17/12 10:20
500-45511-7	MW-7	Water	04/12/12 10:00	04/17/12 10:20
500-45511-8	PZ-8	Water	04/12/12 10:00	04/17/12 10:20
500-45511-9	MW-9	Water	04/12/12 09:30	04/17/12 10:20
500-45511-10	MW-10	Water	04/12/12 10:00	04/17/12 10:20
500-45511-11	MW-11	Water	04/12/12 10:30	04/17/12 10:20
500-45511-12	OLSON	Water	04/12/12 09:30	04/17/12 10:20
500-45511-13	PAPS	Water	04/12/12 11:30	04/17/12 10:20



## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-1R**

**Lab Sample ID: 500-45511-1**

Date Collected: 04/12/12 11:00

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3600		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
Ethylbenzene	3020		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
Naphthalene	645		500	250	ug/L		04/20/12 12:02	04/20/12 22:55	100
Methyl tert-Butyl Ether	ND	RL1	50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
Toluene	20300		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
1,2,4-Trimethylbenzene	2270		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
1,3,5-Trimethylbenzene	638		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
Xylenes, total	14000		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 22:55	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	99		50 - 150				04/20/12 12:02	04/20/12 22:55	100

## Client Sample Results

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-2**

**Lab Sample ID: 500-45511-2**

Date Collected: 04/12/12 11:15

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	586		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
Ethylbenzene	2640		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
Naphthalene	1030		500	250	ug/L		04/20/12 12:02	04/20/12 23:21	100
Methyl tert-Butyl Ether	1090		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
Toluene	9640		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
1,2,4-Trimethylbenzene	3020		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
1,3,5-Trimethylbenzene	940		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
Xylenes, total	13600		50.0	25.0	ug/L		04/20/12 12:02	04/20/12 23:21	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	128	ZX	50 - 150				04/20/12 12:02	04/20/12 23:21	100

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-3**

**Lab Sample ID: 500-45511-3**

Date Collected: 04/12/12 11:15

Matrix: Water

Date Received: 04/17/12 10:20

Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.5		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Methyl tert-Butyl Ether	0.411	J	0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:43	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		50 - 150				04/20/12 12:02	04/20/12 20:43	1.00

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-45511-4**

Date Collected: 04/12/12 11:00

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:09	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	80		50 - 150				04/20/12 12:02	04/20/12 21:09	1.00

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-5**

**Lab Sample ID: 500-45511-5**

Date Collected: 04/12/12 10:15

Matrix: Water

Date Received: 04/17/12 10:20

Method: WDNR GRO - Petroleum Volatile Organic Compounds									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-Butyl Ether	116		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 22:20	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	260	ZX	50 - 150				04/19/12 12:58	04/19/12 22:20	1.00

Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	164		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
Ethylbenzene	1060		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
Naphthalene	263		250	125	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
Toluene	3420		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
1,2,4-Trimethylbenzene	309		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
1,3,6-Trimethylbenzene	319		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
Xylenes, total	3420		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 23:48	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		50 - 150				04/20/12 12:02	04/20/12 23:48	50.0

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-45511-6**

Date Collected: 04/12/12 10:10

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 21:36	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	83		50 - 150				04/20/12 12:02	04/20/12 21:36	1.00

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-45511-7**

Date Collected: 04/12/12 10:00

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Methyl tert-Butyl Ether	191		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 00:32	1.00
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>DII Fac</i>
a,a,a-Trifluorotoluene	157	ZX	50 - 150				04/19/12 12:58	04/20/12 00:32	1.00

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	40.1		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
Ethylbenzene	505		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
Naphthalene	136		50.0	25.0	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
Toluene	696		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
1,2,4-Trimethylbenzene	525		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
1,3,5-Trimethylbenzene	151		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
Xylenes, total	2400		5.00	2.50	ug/L		04/20/12 12:02	04/21/12 00:14	10.0
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>DII Fac</i>
a,a,a-Trifluorotoluene	96		50 - 150				04/20/12 12:02	04/21/12 00:14	10.0

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: PZ-8**

**Lab Sample ID: 500-45511-8**

Date Collected: 04/12/12 10:00

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:02	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	81		50 - 150				04/20/12 12:02	04/20/12 22:02	1.00



# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-45511-9**

Date Collected: 04/12/12 09:30

Matrix: Water

Date Received: 04/17/12 10:20

Method: WDNR GRO - Petroleum Volatile Organic Compounds - RE1									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 22:29	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	84		50 - 150				04/20/12 12:02	04/20/12 22:29	1.00

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-45511-10**

Date Collected: 04/12/12 10:00

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
Toluene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 01:51	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	87		50 - 150				04/19/12 12:58	04/20/12 01:51	1.00

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-45511-11**

Date Collected: 04/12/12 10:30

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
Toluene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:17	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	88		50 - 150				04/19/12 12:58	04/20/12 02:17	1.00

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: OLSON**

**Lab Sample ID: 500-45511-12**

Date Collected: 04/12/12 09:30

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
Toluene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 02:43	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		50 - 150	04/19/12 12:58	04/20/12 02:43	1.00

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

**Client Sample ID: PAPS**

**Lab Sample ID: 500-45511-13**

Date Collected: 04/12/12 11:30

Matrix: Water

Date Received: 04/17/12 10:20

**Method: WDNR GRO - Petroleum Volatile Organic Compounds**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
Toluene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/19/12 12:58	04/20/12 03:09	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	87		50 - 150				04/19/12 12:58	04/20/12 03:09	1.00

## Definitions/Glossary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

---

### Qualifiers

---

#### GC Volatiles

Qualifier	Qualifier Description
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

---

### Glossary

---

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## QC Association Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

### GC Volatiles

#### Analysis Batch: V006543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D3968-BLK1	Method Blank	Total	Water	WDNR GRO	12D3968_P
12D3968-BS1	Lab Control Sample	Total	Water	WDNR GRO	12D3968_P
12D3968-BSD1	Lab Control Sample Dup	Total	Water	WDNR GRO	12D3968_P
500-45511-5	MW-5	Total	Water	WDNR GRO	12D3968_P
500-45511-7	MW-7	Total	Water	WDNR GRO	12D3968_P
500-45511-10	MW-10	Total	Water	WDNR GRO	12D3968_P
500-45511-11	MW-11	Total	Water	WDNR GRO	12D3968_P
500-45511-12	OLSON	Total	Water	WDNR GRO	12D3968_P
500-45511-13	PAPS	Total	Water	WDNR GRO	12D3968_P

#### Analysis Batch: V006718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D4212-BLK1	Method Blank	Total	Water	WDNR GRO	12D4212_P
12D4212-BLK2	Method Blank	Total	Water	WDNR GRO	12D4212_P
12D4212-BS1	Lab Control Sample	Total	Water	WDNR GRO	12D4212_P
12D4212-BSD1	Lab Control Sample Dup	Total	Water	WDNR GRO	12D4212_P
500-45511-1 - RE1	MW-1R	Total	Water	WDNR GRO	12D4212_P
500-45511-2 - RE1	MW-2	Total	Water	WDNR GRO	12D4212_P
500-45511-3 - RE1	MW-3	Total	Water	WDNR GRO	12D4212_P
500-45511-4 - RE1	MW-4	Total	Water	WDNR GRO	12D4212_P
500-45511-5 - RE1	MW-5	Total	Water	WDNR GRO	12D4212_P
500-45511-6 - RE1	MW-6	Total	Water	WDNR GRO	12D4212_P
500-45511-7 - RE1	MW-7	Total	Water	WDNR GRO	12D4212_P
500-45511-8 - RE1	PZ-8	Total	Water	WDNR GRO	12D4212_P
500-45511-9 - RE1	MW-9	Total	Water	WDNR GRO	12D4212_P

#### Prep Batch: 12D3968\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D3968-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
12D3968-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	
12D3968-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B (GC)	
500-45511-5	MW-5	Total	Water	EPA 5030B (GC)	
500-45511-7	MW-7	Total	Water	EPA 5030B (GC)	
500-45511-10	MW-10	Total	Water	EPA 5030B (GC)	
500-45511-11	MW-11	Total	Water	EPA 5030B (GC)	
500-45511-12	OLSON	Total	Water	EPA 5030B (GC)	
500-45511-13	PAPS	Total	Water	EPA 5030B (GC)	

#### Prep Batch: 12D4212\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D4212-BLK1	Method Blank	Total	Water	EPA 5030B (GC)	
12D4212-BLK2	Method Blank	Total	Water	EPA 5030B (GC)	
12D4212-BS1	Lab Control Sample	Total	Water	EPA 5030B (GC)	
12D4212-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B (GC)	
500-45511-1 - RE1	MW-1R	Total	Water	EPA 5030B (GC)	
500-45511-2 - RE1	MW-2	Total	Water	EPA 5030B (GC)	
500-45511-3 - RE1	MW-3	Total	Water	EPA 5030B (GC)	
500-45511-4 - RE1	MW-4	Total	Water	EPA 5030B (GC)	
500-45511-5 - RE1	MW-5	Total	Water	EPA 5030B (GC)	
500-45511-6 - RE1	MW-6	Total	Water	EPA 5030B (GC)	
500-45511-7 - RE1	MW-7	Total	Water	EPA 5030B (GC)	
500-45511-8 - RE1	PZ-8	Total	Water	EPA 5030B (GC)	

# QC Association Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

## GC Volatiles (Continued)

### Prep Batch: 12D4212\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-45511-9 - RE1	MW-9	Total	Water	EPA 5030B (GC)	





# Surrogate Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

Method: WDNR GRO - Petroleum Volatile Organic Compounds

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT	(50-150)
12D3968-BLK1	Method Blank	92	
12D3968-BS1	Lab Control Sample	96	
12D3968-BSD1	Lab Control Sample Dup	101	
12D4212-BLK1	Method Blank	85	
12D4212-BLK2	Method Blank	83	
12D4212-BS1	Lab Control Sample	88	
12D4212-BSD1	Lab Control Sample Dup	91	
500-45511-1 - RE1	MW-1R	99	
500-45511-2 - RE1	MW-2	128 ZX	
500-45511-3 - RE1	MW-3	86	
500-45511-4 - RE1	MW-4	80	
500-45511-5	MW-5	260 ZX	
500-45511-5 - RE1	MW-5	86	
500-45511-6 - RE1	MW-6	83	
500-45511-7	MW-7	157 ZX	
500-45511-7 - RE1	MW-7	96	
500-45511-8 - RE1	PZ-8	81	
500-45511-9 - RE1	MW-9	84	
500-45511-10	MW-10	87	
500-45511-11	MW-11	88	
500-45511-12	OLSON	86	
500-45511-13	PAPS	87	

**Surrogate Legend**

TFT = a,a,a-Trifluorotoluene

# QC Sample Results

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

## Method: WDNR GRO - Petroleum Volatile Organic Compounds

Lab Sample ID: 12D3968-BLK1  
Matrix: Water  
Analysis Batch: V006543

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 12D3968\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
Toluene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/19/12 12:58	04/19/12 18:05	1.00
<b>Surrogate</b>	<b>Blank Blank</b>		<b>Limits</b>			<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
	<b>%Recovery</b>	<b>Qualifier</b>							
a,a,a-Trifluorotoluene	92		50 - 150				04/19/12 12:58	04/19/12 18:05	1.00

Lab Sample ID: 12D3968-BS1  
Matrix: Water  
Analysis Batch: V006543

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 12D3968\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Benzene	100	111		ug/L		111	69 - 129		
Ethylbenzene	100	102		ug/L		102	70 - 130		
Naphthalene	100	98.3		ug/L		98	69 - 133		
Methyl tert-Butyl Ether	100	115		ug/L		115	57 - 138		
Toluene	100	102		ug/L		102	66 - 127		
1,2,4-Trimethylbenzene	100	94.7		ug/L		95	60 - 131		
1,3,5-Trimethylbenzene	100	94.7		ug/L		95	70 - 130		
Xylenes, total	300	283		ug/L		94	69 - 123		
<b>Surrogate</b>	<b>LCS LCS</b>		<b>Limits</b>			<b>D</b>	<b>%Rec</b>	<b>Limits</b>	<b>RPD</b>
	<b>%Recovery</b>	<b>Qualifier</b>							
a,a,a-Trifluorotoluene	96		50 - 150						

Lab Sample ID: 12D3968-BSD1  
Matrix: Water  
Analysis Batch: V006543

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total  
Prep Batch: 12D3968\_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits			
Benzene	100	107		ug/L		107	69 - 129	4	33	
Ethylbenzene	100	98.1		ug/L		98	70 - 130	4	35	
Naphthalene	100	87.0		ug/L		87	69 - 133	12	48	
Methyl tert-Butyl Ether	100	110		ug/L		110	57 - 138	5	40	
Toluene	100	97.9		ug/L		98	66 - 127	4	34	
1,2,4-Trimethylbenzene	100	90.9		ug/L		91	60 - 131	4	43	
1,3,5-Trimethylbenzene	100	90.9		ug/L		91	70 - 130	4	20	
Xylenes, total	300	272		ug/L		91	69 - 123	4	37	
<b>Surrogate</b>	<b>LCS Dup LCS Dup</b>		<b>Limits</b>			<b>D</b>	<b>%Rec</b>	<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
	<b>%Recovery</b>	<b>Qualifier</b>								
a,a,a-Trifluorotoluene	101		50 - 150							

# QC Sample Results

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

## Method: WDNR GRO - Petroleum Volatile Organic Compounds (Continued)

Lab Sample ID: 12D4212-BLK1  
Matrix: Water  
Analysis Batch: V006718

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 12D4212\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Ethylbenzene	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Naphthalene	ND		250	125	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Methyl tert-Butyl Ether	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Toluene	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
1,2,4-Trimethylbenzene	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
1,3,5-Trimethylbenzene	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Xylenes, total	ND		25.0	12.5	ug/L		04/20/12 12:02	04/20/12 19:50	50.0
Surrogate	Blank		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	85		50 - 150				04/20/12 12:02	04/20/12 19:50	50.0

Lab Sample ID: 12D4212-BLK2  
Matrix: Water  
Analysis Batch: V006718

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 12D4212\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Ethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Naphthalene	ND		5.00	2.50	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Methyl tert-Butyl Ether	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Toluene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
1,2,4-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
1,3,5-Trimethylbenzene	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Xylenes, total	ND		0.500	0.250	ug/L		04/20/12 12:02	04/20/12 20:17	1.00
Surrogate	Blank		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	83		50 - 150				04/20/12 12:02	04/20/12 20:17	1.00

Lab Sample ID: 12D4212-BS1  
Matrix: Water  
Analysis Batch: V006718

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 12D4212\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Benzene	100	113		ug/L		113	69 - 129	
Ethylbenzene	100	104		ug/L		104	70 - 130	
Naphthalene	100	104		ug/L		104	69 - 133	
Methyl tert-Butyl Ether	100	122		ug/L		122	57 - 138	
Toluene	100	104		ug/L		104	66 - 127	
1,2,4-Trimethylbenzene	100	96.6		ug/L		97	60 - 131	
1,3,5-Trimethylbenzene	100	96.6		ug/L		97	70 - 130	
Xylenes, total	300	289		ug/L		96	69 - 123	
Surrogate	LCS		Limits					
	%Recovery	Qualifier						
a,a,a-Trifluorotoluene	88		50 - 150					

# QC Sample Results

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

## Method: WDNR GRO - Petroleum Volatile Organic Compounds (Continued)

Lab Sample ID: 12D4212-BSD1

Matrix: Water

Analysis Batch: V006718

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 12D4212\_P

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Benzene	100	115		ug/L		115	69 - 129	2	33
Ethylbenzene	100	106		ug/L		106	70 - 130	2	35
Naphthalene	100	92.2		ug/L		92	69 - 133	12	48
Methyl tert-Butyl Ether	100	114		ug/L		114	57 - 138	7	40
Toluene	100	105		ug/L		105	66 - 127	2	34
1,2,4-Trimethylbenzene	100	96.8		ug/L		97	60 - 131	0.2	43
1,3,5-Trimethylbenzene	100	97.1		ug/L		97	70 - 130	0.5	20
Xylenes, total	300	292		ug/L		97	69 - 123	1	37
<b>Surrogate</b>		<b>LCS Dup</b>	<b>LCS Dup</b>						
		<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
a,a,a-Trifluorotoluene		91							50 - 150

11

## Certification Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Georgia	State Program	4	N/A
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Kentucky (UST)	State Program	4	66
TestAmerica Chicago	L-A-B	DoD ELAP		L2304
TestAmerica Chicago	L-A-B	ISO/IEC 17025		L2304
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina DENR	State Program	4	291
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	Federal		P330-12-00038
TestAmerica Chicago	Virginia	NELAC	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA110014
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033

## Certification Summary

Client: Cedar Corporation  
Project/Site: Paps Store 2880

TestAmerica Job ID: 500-45511-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

12

# TestAmerica

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094  
Phone 820-261-1880 or 800-833-7036  
Fax 820-261-8120

1 of 2

500-4511

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?

Compliance Monitoring

THE LEADER IN ENVIRONMENTAL TESTING

Client Name: Cedar Corporation Client #: \_\_\_\_\_  
Address: 604 W. Iron Ave  
City/State/Zip Code: Menomonie, WI 54751  
Project Manager: Scott McCurdy  
Telephone Number: 715-235-9081 Fax: 715-235-2727  
Sampler Name: (Print Name) Ryan Stora  
Sampler Signature: [Signature]

Project Name: Paps Store  
Project #: 2880  
Site/Location ID: Balsam Lake State: WI  
Report To: Cedar  
Invoice To: Cedar  
Quote #: PELFT PO#: \_\_\_\_\_

E-mail address: \_\_\_\_\_

TAT Standard Flush (surcharges may apply)	Date Needed:	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Solid WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	GC Deliverables None Level 2 (Batch GC) Level 3 Level 4 Other: _____						
							HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)								

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

Puoc + Napth

Special Instructions:

Relinquished By: <u>[Signature]</u>	Date: <u>4/13/12</u>	Time: <u>8:30</u>	Received By: <u>[Signature]</u>	Date: <u>4/12/12</u>	Time: <u>10:20</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0020 (1207)

13

272

500-48511

# TestAmerica

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094

Phone 920-261-1660 or 800-833-7036  
Fax 920-261-8120

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?  
Compliance Monitoring

THE LEADER IN ENVIRONMENTAL TESTING

Client Name: Cobra Corporation Client #:

Address: 604 Wilson Ave

City/State/Zip Code: Menomonie, WI 54751

Project Manager: Scott McCurdy

Telephone Number: 715-235-9081 Fax:

Sampler Name: (Print Name) Ryan Strohma

Sampler Signature: *[Signature]*

Project Name: Paps Stone

Project #: 2880

Site/Location ID: Balsam Lake State: WI

Report To: Cobra

Invoice To: Cobra

Quote #: PEETA PO#:

E-mail address:

TAT Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Sediment WW - Wastewater Specify Other	Preservation & # of Containers							Analyze For:	OC Deliverables <input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____			
							HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)			REMARKS		
<input type="checkbox"/>		4/12/12	1030	G	N	GW	Z									X	<i>PEETA + Merged</i>	
<input type="checkbox"/>			930			DW	Z									X		
<input type="checkbox"/>			1130			DW	Z									X		

Special Instructions:

Relinquished By: <u>Ryan Strohma</u>	Date: <u>4/13/12</u>	Time: <u>8:30</u>	Received By: <u>[Signature]</u>	Date: <u>4/12/12</u>	Time: <u>10:20</u>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0020 (1207)





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-56611-1  
Client Project/Site: Paps General Store - 2880

For:  
Cedar Corporation  
604 Wilson Avenue  
Menomonie, Wisconsin 54751

Attn: Scott McCurdy



Authorized for release by:  
5/9/2013 3:46:14 PM

Sandie Fredrick, Project Manager I  
sandie.fredrick@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Detection Summary . . . . .	4
Method Summary . . . . .	6
Sample Summary . . . . .	7
Client Sample Results . . . . .	8
Definitions . . . . .	13
QC Association . . . . .	14
Surrogate Summary . . . . .	15
QC Sample Results . . . . .	16
Chronicle . . . . .	20
Certification Summary . . . . .	23
Chain of Custody . . . . .	25
Receipt Checklists . . . . .	30



## Case Narrative

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Job ID: 500-56611-1**

**Laboratory: TestAmerica Chicago**

### Narrative

Job Narrative  
500-56611-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/2/2013 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

Except: Both vials for sample 8 have ID of PZ-8, received one of these vials broken.

### GC VOA

Method(s) WI-GRO: Surrogate recovery for the following sample(s) was outside control limits: P-8 (500-56611-8). Evidence of matrix interferences is not obvious. No additional vials available for reanalysis.

Method(s) WI-GRO: Surrogate recovery for the following sample(s) was outside control limits: (MB 490-77340/22). Evidence of matrix interferences is not obvious. Due to insufficient volume for reanalysis of samples associated to this blank, the blank is reported and qualified. Sample affected: 500-56611-A-8

Method(s) WI-GRO: The method blank for batch 77340 contained MTBE above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) WI-GRO: Method blank (MB) associated with sample 500-56611-A-8 contained positive concentrations for 1,2,4-Trimethylbenzene and m,p-Xylenes, likely due to carryover from previous samples. Sample 500-56611-A-8 has no additional vials available for reanalysis; therefore, these data have been qualified and reported.

Method(s) WI-GRO: Surrogate recovery for the following sample(s) was outside control limits: MW-1R (500-56611-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) WI-GRO: The method blank for batch 77554 contained MTBE and m,p-Xylenes above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) WI-GRO: Toluene and m,p-Xylenes were detected in the following sample above the instrument calibration range: MW-2 (500-56611-2). No further vials are available for reanalysis; therefore, the data have been qualified and reported.

Method(s) WI-GRO: Samples had to be reanalyzed from headspace, due to insufficient available vials for reanalysis, and run analytes exceeding ICAL range by a significant percent.

Method(s) WI-GRO: WI PVOC method requirements for Surrogate are 50% - 150% recovery; it is only WI GRO that requires the more stringent limits of 80% - 120% recovery of Surrogate.

No other analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.

## Detection Summary

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Client Sample ID: MW-1R

Lab Sample ID: 500-56611-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1900		25	15	ug/L	50		WDNR	Total/NA
1,3,5-Trimethylbenzene	570		25	15	ug/L	50		WDNR	Total/NA
Benzene	1300		25	18	ug/L	50		WDNR	Total/NA
Ethylbenzene	2000		25	19	ug/L	50		WDNR	Total/NA
Methyl tert-butyl ether	150	B	0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	430		250	120	ug/L	50		WDNR	Total/NA
Toluene	6500		25	17	ug/L	50		WDNR	Total/NA
Xylenes, Total	9700		75	29	ug/L	50		WDNR	Total/NA

### Client Sample ID: MW-2

Lab Sample ID: 500-56611-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4900		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	1300		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	1700		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	3500		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	470	B	13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	970		130	60	ug/L	25		WDNR	Total/NA
Toluene	15000	E	13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	19000	E	38	15	ug/L	25		WDNR	Total/NA

### Client Sample ID: MW-3

Lab Sample ID: 500-56611-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.36	J	0.50	0.30	ug/L	1		WDNR	Total/NA

### Client Sample ID: MW-4

Lab Sample ID: 500-56611-4

No Detections.

### Client Sample ID: MW-5

Lab Sample ID: 500-56611-5

No Detections.

### Client Sample ID: MW-6

Lab Sample ID: 500-56611-6

No Detections.

### Client Sample ID: MW-7

Lab Sample ID: 500-56611-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	14		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	8.7		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	6.7		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	10		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	5.9	B	0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	10		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	3.5		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	26		1.5	0.58	ug/L	1		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

## Client Sample ID: P-8

Lab Sample ID: 500-56611-8

Analyte	Result	Qualifier	RL	MDL	Unit	DII	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.94	B	0.50	0.30	ug/L	1			WDNR	Total/NA
Xylenes, Total	0.72	JB	1.5	0.58	ug/L	1			WDNR	Total/NA

## Client Sample ID: MW-9

Lab Sample ID: 500-56611-9

No Detections.

## Client Sample ID: MW-10

Lab Sample ID: 500-56611-10

No Detections.

## Client Sample ID: MW-11

Lab Sample ID: 500-56611-11

No Detections.

## Client Sample ID: Olson

Lab Sample ID: 500-56611-12

No Detections.

## Client Sample ID: Strey

Lab Sample ID: 500-56611-13

No Detections.

## Client Sample ID: Paps

Lab Sample ID: 500-56611-14

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

## Method Summary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

---

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH

---

**Protocol References:**

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Sample Summary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-56611-1	MW-1R	Water	04/30/13 15:30	05/02/13 09:40
500-56611-2	MW-2	Water	04/30/13 16:00	05/02/13 09:40
500-56611-3	MW-3	Water	04/30/13 15:00	05/02/13 09:40
500-56611-4	MW-4	Water	04/30/13 13:00	05/02/13 09:40
500-56611-5	MW-5	Water	04/30/13 14:30	05/02/13 09:40
500-56611-6	MW-6	Water	04/30/13 12:30	05/02/13 09:40
500-56611-7	MW-7	Water	04/30/13 11:30	05/02/13 09:40
500-56611-8	P-8	Water	04/30/13 12:00	05/02/13 09:40
500-56611-9	MW-9	Water	04/30/13 11:00	05/02/13 09:40
500-56611-10	MW-10	Water	04/30/13 10:30	05/02/13 09:40
500-56611-11	MW-11	Water	04/30/13 13:30	05/02/13 09:40
500-56611-12	Olson	Drinking Water	04/30/13 10:00	05/02/13 09:40
500-56611-13	Strey	Drinking Water	04/30/13 14:00	05/02/13 09:40
500-56611-14	Paps	Drinking Water	04/30/13 16:15	05/02/13 09:40

TestAmerica Chicago



# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: MW-1R**

**Lab Sample ID: 500-56611-1**

Date Collected: 04/30/13 15:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1900		25	15	ug/L			05/07/13 15:39	50
1,3,5-Trimethylbenzene	570		25	15	ug/L			05/07/13 15:39	50
Benzene	1300		25	18	ug/L			05/07/13 15:39	50
Ethylbenzene	2000		25	19	ug/L			05/07/13 15:39	50
Methyl tert-butyl ether	150	B	0.50	0.24	ug/L			05/06/13 21:08	1
Naphthalene	430		250	120	ug/L			05/07/13 15:39	50
Toluene	6500		25	17	ug/L			05/07/13 15:39	50
Xylenes, Total	9700		75	29	ug/L			05/07/13 15:39	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	364	X	80 - 120					05/06/13 21:08	1
a,a,a-Trifluorotoluene	116		80 - 120					05/07/13 15:39	50

**Client Sample ID: MW-2**

**Lab Sample ID: 500-56611-2**

Date Collected: 04/30/13 16:00

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	4900		13	7.5	ug/L			05/07/13 16:07	25
1,3,5-Trimethylbenzene	1300		13	7.5	ug/L			05/07/13 16:07	25
Benzene	1700		13	9.0	ug/L			05/07/13 16:07	25
Ethylbenzene	3500		13	9.3	ug/L			05/07/13 16:07	25
Methyl tert-butyl ether	470	B	13	6.0	ug/L			05/07/13 16:07	25
Naphthalene	970		130	60	ug/L			05/07/13 16:07	25
Toluene	15000	E	13	8.3	ug/L			05/07/13 16:07	25
Xylenes, Total	19000	E	38	15	ug/L			05/07/13 16:07	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	94		80 - 120					05/07/13 16:07	25

**Client Sample ID: MW-3**

**Lab Sample ID: 500-56611-3**

Date Collected: 04/30/13 15:00

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.36	J	0.50	0.30	ug/L			05/07/13 17:02	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 17:02	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 17:02	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 17:02	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 17:02	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 17:02	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 17:02	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 17:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	106		80 - 120					05/07/13 17:02	1

TestAmerica Chicago

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-56611-4**

Date Collected: 04/30/13 13:00

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 17:30	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 17:30	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 17:30	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 17:30	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 17:30	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 17:30	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 17:30	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 17:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	103		80 - 120					05/07/13 17:30	1

**Client Sample ID: MW-5**

**Lab Sample ID: 500-56611-5**

Date Collected: 04/30/13 14:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 17:58	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 17:58	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 17:58	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 17:58	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 17:58	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 17:58	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 17:58	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 17:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	104		80 - 120					05/07/13 17:58	1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-56611-6**

Date Collected: 04/30/13 12:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 18:26	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 18:26	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 18:26	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 18:26	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 18:26	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 18:26	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 18:26	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 18:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	105		80 - 120					05/07/13 18:26	1

TestAmerica Chicago

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-56611-7**

Date Collected: 04/30/13 11:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	14		0.50	0.30	ug/L			05/07/13 18:54	1
1,3,5-Trimethylbenzene	8.7		0.50	0.30	ug/L			05/07/13 18:54	1
Benzene	6.7		0.50	0.36	ug/L			05/07/13 18:54	1
Ethylbenzene	10		0.50	0.37	ug/L			05/07/13 18:54	1
Methyl tert-butyl ether	5.9	B	0.50	0.24	ug/L			05/07/13 18:54	1
Naphthalene	10		5.0	2.4	ug/L			05/07/13 18:54	1
Toluene	3.5		0.50	0.33	ug/L			05/07/13 18:54	1
Xylenes, Total	26		1.5	0.58	ug/L			05/07/13 18:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	116		80 - 120					05/07/13 18:54	1

**Client Sample ID: P-8**

**Lab Sample ID: 500-56611-8**

Date Collected: 04/30/13 12:00

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.94	B	0.50	0.30	ug/L			05/07/13 03:10	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 03:10	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 03:10	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 03:10	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 03:10	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 03:10	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 03:10	1
Xylenes, Total	0.72	J B	1.5	0.58	ug/L			05/07/13 03:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	78	X	80 - 120					05/07/13 03:10	1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-56611-9**

Date Collected: 04/30/13 11:00

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 19:22	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 19:22	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 19:22	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 19:22	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 19:22	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 19:22	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 19:22	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 19:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	103		80 - 120					05/07/13 19:22	1

TestAmerica Chicago

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-56611-10**

Date Collected: 04/30/13 10:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 19:50	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 19:50	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 19:50	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 19:50	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 19:50	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 19:50	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 19:50	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 19:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	103		80 - 120					05/07/13 19:50	1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-56611-11**

Date Collected: 04/30/13 13:30

Matrix: Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 23:59	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 23:59	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 23:59	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 23:59	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 23:59	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 23:59	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 23:59	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 23:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	103		80 - 120					05/07/13 23:59	1

**Client Sample ID: Olson**

**Lab Sample ID: 500-56611-12**

Date Collected: 04/30/13 10:00

Matrix: Drinking Water

Date Received: 05/02/13 09:40

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/08/13 00:27	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/08/13 00:27	1
Benzene	<0.36		0.50	0.36	ug/L			05/08/13 00:27	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/08/13 00:27	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/08/13 00:27	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/08/13 00:27	1
Toluene	<0.33		0.50	0.33	ug/L			05/08/13 00:27	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/08/13 00:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	101		80 - 120					05/08/13 00:27	1

TestAmerica Chicago

# Client Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: Strey**  
 Date Collected: 04/30/13 14:00  
 Date Received: 05/02/13 09:40

**Lab Sample ID: 500-56611-13**  
 Matrix: Drinking Water

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/08/13 00:55	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/08/13 00:55	1
Benzene	<0.36		0.50	0.36	ug/L			05/08/13 00:55	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/08/13 00:55	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/08/13 00:55	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/08/13 00:55	1
Toluene	<0.33		0.50	0.33	ug/L			05/08/13 00:55	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/08/13 00:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	106		80 - 120					05/08/13 00:55	1

**Client Sample ID: Paps**  
 Date Collected: 04/30/13 16:15  
 Date Received: 05/02/13 09:40

**Lab Sample ID: 500-56611-14**  
 Matrix: Drinking Water

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 18:21	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 18:21	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 18:21	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 18:21	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 18:21	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 18:21	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 18:21	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 18:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	106		80 - 120					05/07/13 18:21	1

## Definitions/Glossary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## QC Association Summary

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### GC VOA

#### Analysis Batch: 77340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-56611-1	MW-1R	Total/NA	Water	WDNR	
500-56611-8	P-8	Total/NA	Water	WDNR	
LCS 490-77340/19	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-77340/34	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-77340/22	Method Blank	Total/NA	Water	WDNR	
MB 490-77340/7	Method Blank	Total/NA	Water	WDNR	

#### Analysis Batch: 77456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-56611-14	Paps	Total/NA	Drinking Water	WDNR	
LCS 490-77456/18	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-77456/19	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-77456/6	Method Blank	Total/NA	Water	WDNR	

#### Analysis Batch: 77554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-56611-1	MW-1R	Total/NA	Water	WDNR	
500-56611-2	MW-2	Total/NA	Water	WDNR	
500-56611-3	MW-3	Total/NA	Water	WDNR	
500-56611-4	MW-4	Total/NA	Water	WDNR	
500-56611-5	MW-5	Total/NA	Water	WDNR	
500-56611-6	MW-6	Total/NA	Water	WDNR	
500-56611-7	MW-7	Total/NA	Water	WDNR	
500-56611-9	MW-9	Total/NA	Water	WDNR	
500-56611-10	MW-10	Total/NA	Water	WDNR	
500-56611-11	MW-11	Total/NA	Water	WDNR	
500-56611-12	Olson	Total/NA	Drinking Water	WDNR	
500-56611-13	Strey	Total/NA	Drinking Water	WDNR	
LCS 490-77554/15	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-77554/31	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-77554/19	Method Blank	Total/NA	Water	WDNR	
MB 490-77554/2	Method Blank	Total/NA	Water	WDNR	

# Surrogate Summary

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TFT (80-120)
500-56611-12	Olson	101
500-56611-13	Strey	106
500-56611-14	Paps	106

**Surrogate Legend**  
 TFT = a,a,a-Trifluorotoluene

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TFT (80-120)
500-56611-1	MW-1R	364 X
500-56611-1	MW-1R	116
500-56611-2	MW-2	94
500-56611-3	MW-3	106
500-56611-4	MW-4	103
500-56611-5	MW-5	104
500-56611-6	MW-6	105
500-56611-7	MW-7	116
500-56611-8	P-8	78 X
500-56611-9	MW-9	103
500-56611-10	MW-10	103
500-56611-11	MW-11	103
LCS 490-77340/19	Lab Control Sample	82
LCS 490-77456/18	Lab Control Sample	121 X
LCS 490-77554/15	Lab Control Sample	118
LCSD 490-77340/34	Lab Control Sample Dup	84
LCSD 490-77456/19	Lab Control Sample Dup	125 X
LCSD 490-77554/31	Lab Control Sample Dup	117
MB 490-77340/22	Method Blank	76 X
MB 490-77340/7	Method Blank	106
MB 490-77456/6	Method Blank	111
MB 490-77554/19	Method Blank	104
MB 490-77554/2	Method Blank	97

**Surrogate Legend**  
 TFT = a,a,a-Trifluorotoluene



# QC Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-77340/22

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 77340

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	1.77		0.50	0.30	ug/L			05/07/13 00:39	1
1,3,5-Trimethylbenzene	0.626		0.50	0.30	ug/L			05/07/13 00:39	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 00:39	1
Ethylbenzene	0.515		0.50	0.37	ug/L			05/07/13 00:39	1
Methyl tert-butyl ether	0.270	J	0.50	0.24	ug/L			05/07/13 00:39	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 00:39	1
Toluene	0.363	J	0.50	0.33	ug/L			05/07/13 00:39	1
Xylenes, Total	2.45		1.5	0.58	ug/L			05/07/13 00:39	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	76	X	80 - 120		05/07/13 00:39	1

Lab Sample ID: MB 490-77340/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 77340

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/06/13 15:22	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/06/13 15:22	1
Benzene	<0.36		0.50	0.36	ug/L			05/06/13 15:22	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/06/13 15:22	1
Methyl tert-butyl ether	0.241	J	0.50	0.24	ug/L			05/06/13 15:22	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/06/13 15:22	1
Toluene	<0.33		0.50	0.33	ug/L			05/06/13 15:22	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/06/13 15:22	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	106		80 - 120		05/06/13 15:22	1

Lab Sample ID: LCS 490-77340/19

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 77340

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,2,4-Trimethylbenzene	100	99.5		ug/L		100	60 - 131
1,3,5-Trimethylbenzene	100	99.7		ug/L		100	70 - 130
Benzene	100	83.6		ug/L		84	69 - 129
Ethylbenzene	100	92.0		ug/L		92	70 - 130
Methyl tert-butyl ether	100	82.5		ug/L		83	57 - 138
m-Xylene & p-Xylene	200	198		ug/L		99	65 - 127
Naphthalene	100	89.3		ug/L		89	69 - 133
o-Xylene	100	100		ug/L		100	64 - 128
Toluene	100	90.5		ug/L		90	66 - 127
Xylenes, Total	300	298		ug/L		99	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	82		80 - 120

TestAmerica Chicago

## QC Sample Results

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-77340/34  
Matrix: Water  
Analysis Batch: 77340

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2,4-Trimethylbenzene	100	105		ug/L		105	60 - 131	5	43	
1,3,5-Trimethylbenzene	100	105		ug/L		105	70 - 130	5	20	
Benzene	100	90.8		ug/L		91	69 - 129	8	33	
Ethylbenzene	100	100		ug/L		100	70 - 130	8	35	
Methyl tert-butyl ether	100	85.0		ug/L		85	57 - 138	3	40	
m-Xylene & p-Xylene	200	209		ug/L		105	65 - 127	6	39	
Naphthalene	100	91.9		ug/L		92	69 - 133	3	48	
o-Xylene	100	107		ug/L		107	64 - 128	7	35	
Toluene	100	97.8		ug/L		98	66 - 127	8	34	
Xylenes, Total	300	316		ug/L		105		6		

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	84		80 - 120

Lab Sample ID: MB 490-77456/6  
Matrix: Water  
Analysis Batch: 77456

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 11:25	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 11:25	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 11:25	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 11:25	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 11:25	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 11:25	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 11:25	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 11:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	111		80 - 120		05/07/13 11:25	1

Lab Sample ID: LCS 490-77456/18  
Matrix: Water  
Analysis Batch: 77456

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
1,2,4-Trimethylbenzene	100	107		ug/L		107	60 - 131	
1,3,5-Trimethylbenzene	100	109		ug/L		109	70 - 130	
Benzene	100	97.4		ug/L		97	69 - 129	
Ethylbenzene	100	106		ug/L		106	70 - 130	
Methyl tert-butyl ether	100	94.2		ug/L		94	57 - 138	
m-Xylene & p-Xylene	200	216		ug/L		108	65 - 127	
Naphthalene	100	103		ug/L		103	69 - 133	
o-Xylene	100	110		ug/L		110	64 - 128	
Toluene	100	104		ug/L		104	66 - 127	
Xylenes, Total	300	326		ug/L		109		

TestAmerica Chicago

## QC Sample Results

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCS 490-77456/18**  
**Matrix: Water**  
**Analysis Batch: 77456**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	121	X	80 - 120

**Lab Sample ID: LCSD 490-77456/19**  
**Matrix: Water**  
**Analysis Batch: 77456**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,4-Trimethylbenzene	100	104		ug/L		104	60 - 131	2	43
1,3,5-Trimethylbenzene	100	107		ug/L		107	70 - 130	2	20
Benzene	100	100		ug/L		100	69 - 129	3	33
Ethylbenzene	100	107		ug/L		107	70 - 130	1	35
Methyl tert-butyl ether	100	101		ug/L		101	57 - 138	7	40
m-Xylene & p-Xylene	200	212		ug/L		106	65 - 127	2	39
Naphthalene	100	107		ug/L		107	69 - 133	4	48
o-Xylene	100	107		ug/L		107	64 - 128	2	35
Toluene	100	105		ug/L		105	66 - 127	2	34
Xylenes, Total	300	319		ug/L		106		2	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	125	X	80 - 120

**Lab Sample ID: MB 490-77554/19**  
**Matrix: Water**  
**Analysis Batch: 77554**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 22:08	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 22:08	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 22:08	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 22:08	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/07/13 22:08	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 22:08	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 22:08	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 22:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		80 - 120		05/07/13 22:08	1

**Lab Sample ID: MB 490-77554/2**  
**Matrix: Water**  
**Analysis Batch: 77554**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 06:16	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/07/13 06:16	1
Benzene	<0.36		0.50	0.36	ug/L			05/07/13 06:16	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/07/13 06:16	1

TestAmerica Chicago

# QC Sample Results

Client: Cedar Corporation  
 Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: MB 490-77554/2**  
**Matrix: Water**  
**Analysis Batch: 77554**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	0.253	J	0.50	0.24	ug/L			05/07/13 06:16	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/07/13 06:16	1
Toluene	<0.33		0.50	0.33	ug/L			05/07/13 06:16	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/07/13 06:16	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	97		80 - 120		05/07/13 06:16	1

**Lab Sample ID: LCS 490-77554/15**  
**Matrix: Water**  
**Analysis Batch: 77554**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	100	117		ug/L		117	70 - 130
Benzene	100	100		ug/L		100	69 - 129
Ethylbenzene	100	112		ug/L		112	70 - 130
Methyl tert-butyl ether	100	101		ug/L		101	57 - 138
m-Xylene & p-Xylene	200	215		ug/L		108	65 - 127
Naphthalene	100	109		ug/L		109	69 - 133
o-Xylene	100	103		ug/L		103	64 - 128
Toluene	100	107		ug/L		107	66 - 127
Xylenes, Total	300	318		ug/L		106	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	118		80 - 120

**Lab Sample ID: LCSD 490-77554/31**  
**Matrix: Water**  
**Analysis Batch: 77554**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,2,4-Trimethylbenzene	100	112		ug/L		112	60 - 131	1	43
1,3,5-Trimethylbenzene	100	115		ug/L		115	70 - 130	1	20
Benzene	100	100		ug/L		100	69 - 129	0	33
Ethylbenzene	100	111		ug/L		111	70 - 130	1	35
Methyl tert-butyl ether	100	99.7		ug/L		100	57 - 138	1	40
m-Xylene & p-Xylene	200	213		ug/L		106	65 - 127	1	39
Naphthalene	100	102		ug/L		102	69 - 133	6	48
o-Xylene	100	101		ug/L		101	64 - 128	2	35
Toluene	100	107		ug/L		107	66 - 127	0	34
Xylenes, Total	300	314		ug/L		105		1	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	117		80 - 120

TestAmerica Chicago

# Lab Chronicle

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

## Client Sample ID: MW-1R

Lab Sample ID: 500-56611-1

Date Collected: 04/30/13 15:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77340	05/06/13 21:08	AC	TAL NSH
Total/NA	Analysis	WDNR		50	77554	05/07/13 15:39	AC	TAL NSH

## Client Sample ID: MW-2

Lab Sample ID: 500-56611-2

Date Collected: 04/30/13 16:00

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	77554	05/07/13 16:07	AC	TAL NSH

## Client Sample ID: MW-3

Lab Sample ID: 500-56611-3

Date Collected: 04/30/13 15:00

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 17:02	AC	TAL NSH

## Client Sample ID: MW-4

Lab Sample ID: 500-56611-4

Date Collected: 04/30/13 13:00

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 17:30	AC	TAL NSH

## Client Sample ID: MW-5

Lab Sample ID: 500-56611-5

Date Collected: 04/30/13 14:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 17:58	AC	TAL NSH

## Client Sample ID: MW-6

Lab Sample ID: 500-56611-6

Date Collected: 04/30/13 12:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 18:26	AC	TAL NSH

TestAmerica Chicago

# Lab Chronicle

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-56611-7**

Date Collected: 04/30/13 11:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 18:54	AC	TAL NSH

**Client Sample ID: P-8**

**Lab Sample ID: 500-56611-8**

Date Collected: 04/30/13 12:00

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77340	05/07/13 03:10	AC	TAL NSH

**Client Sample ID: MW-9**

**Lab Sample ID: 500-56611-9**

Date Collected: 04/30/13 11:00

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 19:22	AC	TAL NSH

**Client Sample ID: MW-10**

**Lab Sample ID: 500-56611-10**

Date Collected: 04/30/13 10:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 19:50	AC	TAL NSH

**Client Sample ID: MW-11**

**Lab Sample ID: 500-56611-11**

Date Collected: 04/30/13 13:30

Matrix: Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/07/13 23:59	AC	TAL NSH

**Client Sample ID: Olson**

**Lab Sample ID: 500-56611-12**

Date Collected: 04/30/13 10:00

Matrix: Drinking Water

Date Received: 05/02/13 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/08/13 00:27	AC	TAL NSH

TestAmerica Chicago

# Lab Chronicle

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

**Client Sample ID: Strey**  
Date Collected: 04/30/13 14:00  
Date Received: 05/02/13 09:40

**Lab Sample ID: 500-56611-13**  
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77554	05/08/13 00:55	AC	TAL NSH

**Client Sample ID: Paps**  
Date Collected: 04/30/13 16:15  
Date Received: 05/02/13 09:40

**Lab Sample ID: 500-56611-14**  
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	77456	05/07/13 18:21	AC	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Certification Summary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	05-31-13
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	05-31-13 *
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	05-31-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-13 *
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Chicago



## Certification Summary

Client: Cedar Corporation  
Project/Site: Paps General Store - 2880

TestAmerica Job ID: 500-56611-1

### Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	05-31-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Chicago

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6041  
Phone: 708.534.5200 Fax: 708.534.1



500-56811 COC

Report To (optional)  
Contact: Scott McCurdy  
Company: Cedar Corp  
Address: 604 Wilson Ave  
Address: Manomonic, WI 54751  
Phone: 715-235-9081  
Fax:  
E-Mail:

Report To (optional)  
Contact: Some  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO Reference:

## Chain of Custody Record

Lab Job #: 500-56611  
Chain of Custody Number:  
Page 1 of 2  
Temperature °C of Cooler: 0.7

Client		Client Project #		Preservative		Parameter		Sample ID		Sampling		# of Containers		Matrix		Remarks		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	#	Matrix	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
Cedar Corporation		2880		1		Pb, Cu, Ni, Hg, Zn													
Project Name		Paps General Store																	
Project Location/State		Burlington Lake, WI																	
Sampler		Ryan Shafer																	
Lab Project #		Sandie Friedrich																	
Lab PM																			
1		MW-1R	4-30-13	1530	2	W	X												
2		MW-2		1600															
3		MW-3		1500															
4		MW-4		1300															
5		MW-5		1430															
6		MW-6		1230															
7		MW-7		1130															
8		P-8		1200															
9		MW-9		1100															
10		MW-10		1030															

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other  
 Requested Due Date: \_\_\_\_\_

Sample Disposal  
 Return to Client  Dispose by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested By <u>Ryan Shafer</u>	Company <u>Cedar Corp</u>	Date <u>5/1/13</u>	Time <u>730</u>	Received By <u>Sandie Friedrich</u>	Company <u>JA CRT</u>	Date <u>5/2/13</u>	Time <u>0940</u>
Requested By	Company	Date	Time	Received By	Company	Date	Time
Requested By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier  
 Shipped FedEx  
 Hand Delivered

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - VI - Vial
  - DW - Drinking Water
  - O - Other

Client Comments:

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.9200 Fax: 708.534.9211

Report To Contact: <u>Scott McCurdy</u> Company: <u>Cedar Corp</u> Address: <u>604 Wilson Ave</u> Address: <u>Manomonia, WI 54751</u> Phone: <u>715-235-9031</u> Fax: E-Mail:	(optional)	BRI To Contact: <u>Same</u> Company: Address: Address: Phone: Fax: POB/Reference#	(optional)
--	------------	--	------------

## Chain of Custody Record

Lab Job #: 500-56611  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 2  
Temperature °C of Cooler: 0.7

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Cedar Corporation		2880		1		PUOC-NAPTH				
Project Name Paps General Store		Lab Project # 28								
Project Location/Date Balsam Lake, WI		Lab PM Sandie Fradrick								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Metric	Comments			
11		MW-11	4-30-13	1330	2	W	X			
12		Olson	↓	1000	↓	DW	↓			
13		Strey	↓	1400	↓	↓	↓			
14		PAPS	↓	1615	↓	↓	↓			

### Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

### Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested By <u>Papa John</u>	Company <u>Cedar Corp</u>	Date <u>5/1/13</u>	Time <u>730</u>	Received By <u>Therese St...</u>	Company <u>TA-CH</u>	Date <u>5/2/13</u>	Time <u>0940</u>
Requested By	Company	Date	Time	Received By	Company	Date	Time
Requested By	Company	Date	Time	Received By	Company	Date	Time

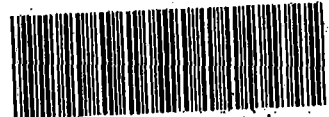
Lab Courier: \_\_\_\_\_  
Shipped: FedEx  
Hand Delivered: \_\_\_\_\_

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - CL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments:

Lab Comments:

## COOLER RECEIPT FORM



500-56811 Chain of Custody

Cooler Received/Opened On: 5/3/2013 @0800

1. Tracking # 0036 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 96210146

2. Temperature of rep. sample or temp blank when opened: 5.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO..NA

If yes, how many and where: 2 Front/Back

5. Were the seals intact, signed, and dated correctly? YES..NO..NA

6. Were custody papers inside cooler? YES..NO..NA

I certify that I opened the cooler and answered questions 1-6 (Initial) J

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO..NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO..NA

12. Did all container labels and tags agree with custody papers? YES..NO..NA

13a. Were VOA vials received? YES..NO..NA

b. Was there any observable headspace present in any VOA vial? YES..NO..NA

14. Was there a Trip Blank in this cooler? YES..NO..NA If multiple coolers, sequence #           

I certify that I unloaded the cooler and answered questions 7-14 (Initial)           

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO..NA

16. Was residual chlorine present? YES...NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial)           

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO..NA

18. Did you sign the custody papers in the appropriate place? YES..NO..NA

19. Were correct containers used for the analysis requested? YES..NO..NA

20. Was sufficient amount of sample sent in each container? YES..NO..NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial)           

I certify that I attached a label with the unique LIMS number to each container (Initial)           

21. Were there Non-Conformance Issues at login? YES..NO Was a NCM generated? YES..NO..#

**TestAmerica Chicago**  
 2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

**Chain of Custody Record**

Loc: 500  
**56611**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>	Sampler: Fredrick, Sandie	Lab PM: Fredrick, Sandie	Carrier
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	

Company: TestAmerica Laboratories, Inc	Analysis Requested	COC No: 500-34570.1
Address: 2960 Foster Creighton Drive, City: Nashville State, Zip: TN, 37204 Phone: 615-726-0177(Tel) 615-726-8954(Fax) Email:	Base Date Requested: 5/9/2013 TAT Requested (days):	Page: Page 1 of 2

Project Name: Paps General Store - 2680 Site:	Project #: 50006556 SSOW#:	PO #:	WO #:	Preservation Codes: A - HCL                    M - Hexane B - NaOH                N - None C - Zn Acetate        O - AsNaO2 D - Nitric Acid        P - Na2O4S E - NaHSO4            Q - Na2SO3 F - MeOH                R - Na2S2O3 G - Amchlor            S - H2SO4 H - Ascorbic Acid    T - TSP Dodecahydrate I - Ice                    U - Acetone J - DI Water            V - MCAA K - EDTA                W - ph 4-6 L - EDTA                Z - other (specify)  Other:
---	----------------------------------	-------	-------	---

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, G=Grab, A=Air)	WL_GROUPO08 (MOB) WISC PVOC + Nap																Special Instructions/Note:	
MW-1R (500-56611-1)	4/30/13	15:30 Central		Water	X																	-1
MW-2 (500-56611-2)	4/30/13	16:00 Central		Water	X																	-2
MW-3 (500-56611-3)	4/30/13	15:00 Central		Water	X																	-3
MW-4 (500-56611-4)	4/30/13	13:00 Central		Water	X																	-4
MW-5 (500-56611-5)	4/30/13	14:30 Central		Water	X																	-5
MW-6 (500-56611-6)	4/30/13	12:30 Central		Water	X																	-6
MW-7 (500-56611-7)	4/30/13	11:30 Central		Water	X																	-7
P-8 (500-56611-8)	4/30/13	12:00 Central		Water	X																	-8
MW-9 (500-56611-9)	4/30/13	11:00 Central		Water	X																	-9
MW-10 (500-56611-10)	4/30/13	10:30 Central		Water	X																	-10
MW-11 (500-56611-11)	4/30/13	13:30 Central		Water	X																	-11

<b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:
--	---

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 5/2/13 1530	Company: FA-CHE	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Page 28 of 32

5/9/2013



# Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-56611-1

Login Number: 56611

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Sample 8 labeled PZ-8
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6$ mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-56611-1

Login Number: 56611

List Source: TestAmerica Nashville

List Number: 1

List Creation: 05/03/13 03:01 PM

Creator: Huckaba, Jimmy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-56611-1

Login Number: 56611

List Source: TestAmerica Nashville

List Number: 2

List Creation: 05/03/13 03:02 PM

Creator: Huckaba, Jimmy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ( $1/4"$ ).	False	Headspace larger than $1/4"$ in one or more vials, one vial with acppt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-65597-1  
Client Project/Site: Pap's General Store - 2880

For:  
Cedar Corporation  
604 Wilson Avenue  
Menomonie, Wisconsin 54751

Attn: Scott McCurdy



Authorized for release by:  
11/7/2013 1:31:06 PM

Sandie Fredrick, Project Manager II  
(920)261-1660  
sandie.fredrick@testamericainc.com

### LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Detection Summary . . . . .	4
Method Summary . . . . .	6
Sample Summary . . . . .	7
Client Sample Results . . . . .	8
Definitions . . . . .	12
QC Association . . . . .	13
Surrogate Summary . . . . .	14
QC Sample Results . . . . .	15
Chronicle . . . . .	19
Certification Summary . . . . .	21
Chain of Custody . . . . .	23
Receipt Checklists . . . . .	27

## Case Narrative

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

---

**Job ID: 500-65597-1**

---

**Laboratory: TestAmerica Chicago**

**Narrative**

---

**Job Narrative**  
**500-65597-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 10/25/2013 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

Except: Both vials for sample 8 have ID of PZ-8, logged per bottles.

**GC VOA**

Method(s) WI-GRO: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 118365. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) WI-GRO: Surrogate recovery for the following sample(s) was outside control limits: MW-4 (500-65597-4). Sample was initially analyzed and contained carryover. Reanalysis had low surrogate recovery; however due to insufficient hold time, the sample was unable to be reanalyzed.

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

## Detection Summary

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### Client Sample ID: MW-1R

Lab Sample ID: 500-65597-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1900		10	6.0	ug/L	20			WDNR	Total/NA
1,3,5-Trimethylbenzene	540		10	6.0	ug/L	20			WDNR	Total/NA
Benzene	1400		10	7.2	ug/L	20			WDNR	Total/NA
Ethylbenzene	2200		10	7.4	ug/L	20			WDNR	Total/NA
Methyl tert-butyl ether	98		10	4.8	ug/L	20			WDNR	Total/NA
Naphthalene	580		100	4.8	ug/L	20			WDNR	Total/NA
Toluene	8600		50	33	ug/L	100			WDNR	Total/NA
Xylenes, Total	10000		30	12	ug/L	20			WDNR	Total/NA

### Client Sample ID: MW-2

Lab Sample ID: 500-65597-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3400		10	6.0	ug/L	20			WDNR	Total/NA
1,3,5-Trimethylbenzene	1000		10	6.0	ug/L	20			WDNR	Total/NA
Benzene	380		10	7.2	ug/L	20			WDNR	Total/NA
Ethylbenzene	1900		10	7.4	ug/L	20			WDNR	Total/NA
Methyl tert-butyl ether	67		10	4.8	ug/L	20			WDNR	Total/NA
Naphthalene	1000		100	4.8	ug/L	20			WDNR	Total/NA
Toluene	6000		10	6.6	ug/L	20			WDNR	Total/NA
Xylenes, Total	12000		30	12	ug/L	20			WDNR	Total/NA

### Client Sample ID: MW-3

Lab Sample ID: 500-65597-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.8		0.50	0.30	ug/L	1			WDNR	Total/NA
1,3,5-Trimethylbenzene	1.5		0.50	0.30	ug/L	1			WDNR	Total/NA
Benzene	20		0.50	0.36	ug/L	1			WDNR	Total/NA
Ethylbenzene	2.5		0.50	0.37	ug/L	1			WDNR	Total/NA
Methyl tert-butyl ether	16		0.50	0.24	ug/L	1			WDNR	Total/NA
Toluene	0.91		0.50	0.33	ug/L	1			WDNR	Total/NA
Xylenes, Total	22		1.5	0.58	ug/L	1			WDNR	Total/NA

### Client Sample ID: MW-4

Lab Sample ID: 500-65597-4

No Detections.

### Client Sample ID: MW-5

Lab Sample ID: 500-65597-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.0		0.50	0.30	ug/L	1			WDNR	Total/NA
1,3,5-Trimethylbenzene	2.3		0.50	0.30	ug/L	1			WDNR	Total/NA
Methyl tert-butyl ether	0.24	J	0.50	0.24	ug/L	1			WDNR	Total/NA
Xylenes, Total	1.1	J	1.5	0.58	ug/L	1			WDNR	Total/NA

### Client Sample ID: MW-6

Lab Sample ID: 500-65597-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.9		0.50	0.30	ug/L	1			WDNR	Total/NA
1,3,5-Trimethylbenzene	1.1		0.50	0.30	ug/L	1			WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

## Client Sample ID: MW-7

Lab Sample ID: 500-65597-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	740		10	6.0	ug/L	20			WDNR	Total/NA
1,3,5-Trimethylbenzene	190		0.50	0.30	ug/L	1			WDNR	Total/NA
Benzene	1200		10	7.2	ug/L	20			WDNR	Total/NA
Ethylbenzene	980		10	7.4	ug/L	20			WDNR	Total/NA
Naphthalene	210		5.0	2.4	ug/L	1			WDNR	Total/NA
Toluene	9800		50	33	ug/L	100			WDNR	Total/NA
Xylenes, Total	5500		30	12	ug/L	20			WDNR	Total/NA

## Client Sample ID: P-8

Lab Sample ID: 500-65597-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	3.2		0.50	0.30	ug/L	1			WDNR	Total/NA
Methyl tert-butyl ether	0.70		0.50	0.24	ug/L	1			WDNR	Total/NA

## Client Sample ID: MW-9

Lab Sample ID: 500-65597-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.7		0.50	0.30	ug/L	1			WDNR	Total/NA
1,3,5-Trimethylbenzene	0.76		0.50	0.30	ug/L	1			WDNR	Total/NA
Ethylbenzene	0.44	J	0.50	0.37	ug/L	1			WDNR	Total/NA
Xylenes, Total	2.1		1.5	0.58	ug/L	1			WDNR	Total/NA

## Client Sample ID: MW-10

Lab Sample ID: 500-65597-10

No Detections.

## Client Sample ID: MW-11

Lab Sample ID: 500-65597-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

## Method Summary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

---

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH

---

**Protocol References:**

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Sample Summary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-65597-1	MW-1R	Water	10/23/13 16:00	10/25/13 08:50
500-65597-2	MW-2	Water	10/23/13 15:30	10/25/13 08:50
500-65597-3	MW-3	Water	10/23/13 15:00	10/25/13 08:50
500-65597-4	MW-4	Water	10/23/13 14:30	10/25/13 08:50
500-65597-5	MW-5	Water	10/23/13 14:00	10/25/13 08:50
500-65597-6	MW-6	Water	10/23/13 13:30	10/25/13 08:50
500-65597-7	MW-7	Water	10/23/13 12:00	10/25/13 08:50
500-65597-8	P-8	Water	10/23/13 12:30	10/25/13 08:50
500-65597-9	MW-9	Water	10/23/13 11:15	10/25/13 08:50
500-65597-10	MW-10	Water	10/23/13 11:30	10/25/13 08:50
500-65597-11	MW-11	Water	10/23/13 13:00	10/25/13 08:50



# Client Sample Results

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

**Client Sample ID: MW-1R**

**Lab Sample ID: 500-65597-1**

Date Collected: 10/23/13 16:00

Matrix: Water

Date Received: 10/25/13 08:50

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1900		10	6.0	ug/L			11/06/13 18:29	20
1,3,5-Trimethylbenzene	540		10	6.0	ug/L			11/06/13 18:29	20
Benzene	1400		10	7.2	ug/L			11/06/13 18:29	20
Ethylbenzene	2200		10	7.4	ug/L			11/06/13 18:29	20
Methyl tert-butyl ether	98		10	4.8	ug/L			11/06/13 18:29	20
Naphthalene	580		100	48	ug/L			11/06/13 18:29	20
Toluene	8600		50	33	ug/L			11/06/13 17:58	100
Xylenes, Total	10000		30	12	ug/L			11/06/13 18:29	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	126		80 -					11/06/13 17:58	100
a,a,a-Trifluorotoluene	163		80 -					11/06/13 18:29	20

**Client Sample ID: MW-2**

**Lab Sample ID: 500-65597-2**

Date Collected: 10/23/13 15:30

Matrix: Water

Date Received: 10/25/13 08:50

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	3400		10	6.0	ug/L			11/06/13 20:02	20
1,3,5-Trimethylbenzene	1000		10	6.0	ug/L			11/06/13 20:02	20
Benzene	380		10	7.2	ug/L			11/06/13 20:02	20
Ethylbenzene	1900		10	7.4	ug/L			11/06/13 20:02	20
Methyl tert-butyl ether	67		10	4.8	ug/L			11/06/13 20:02	20
Naphthalene	1000		100	48	ug/L			11/06/13 20:02	20
Toluene	6000		10	6.6	ug/L			11/06/13 20:02	20
Xylenes, Total	12000		30	12	ug/L			11/06/13 20:02	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	188		80 -					11/06/13 20:02	20

**Client Sample ID: MW-3**

**Lab Sample ID: 500-65597-3**

Date Collected: 10/23/13 15:00

Matrix: Water

Date Received: 10/25/13 08:50

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.8		0.50	0.30	ug/L			11/06/13 16:25	1
1,3,5-Trimethylbenzene	1.5		0.50	0.30	ug/L			11/06/13 16:25	1
Benzene	20		0.50	0.36	ug/L			11/06/13 16:25	1
Ethylbenzene	2.5		0.50	0.37	ug/L			11/06/13 16:25	1
Methyl tert-butyl ether	16		0.50	0.24	ug/L			11/06/13 16:25	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/06/13 16:25	1
Toluene	0.91		0.50	0.33	ug/L			11/06/13 16:25	1
Xylenes, Total	22		1.5	0.58	ug/L			11/06/13 16:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	184		80 -					11/06/13 16:25	1

TestAmerica Chicago

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

**Client Sample ID: MW-4**

**Lab Sample ID: 500-65597-4**

Date Collected: 10/23/13 14:30

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/06/13 16:56	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/06/13 16:56	1
Benzene	<0.36		0.50	0.36	ug/L			11/06/13 16:56	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/06/13 16:56	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/06/13 16:56	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/06/13 16:56	1
Toluene	<0.33		0.50	0.33	ug/L			11/06/13 16:56	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/06/13 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78	X	80 -					11/06/13 16:56	1

**Client Sample ID: MW-5**

**Lab Sample ID: 500-65597-5**

Date Collected: 10/23/13 14:00

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	5.0		0.50	0.30	ug/L			11/02/13 00:52	1
1,3,5-Trimethylbenzene	2.3		0.50	0.30	ug/L			11/02/13 00:52	1
Benzene	<0.36		0.50	0.36	ug/L			11/02/13 00:52	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/02/13 00:52	1
Methyl tert-butyl ether	0.24	J	0.50	0.24	ug/L			11/02/13 00:52	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/02/13 00:52	1
Toluene	<0.33		0.50	0.33	ug/L			11/02/13 00:52	1
Xylenes, Total	1.1	J	1.5	0.58	ug/L			11/02/13 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		80 -					11/02/13 00:52	1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-65597-6**

Date Collected: 10/23/13 13:30

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.9		0.50	0.30	ug/L			11/02/13 01:23	1
1,3,5-Trimethylbenzene	1.1		0.50	0.30	ug/L			11/02/13 01:23	1
Benzene	<0.36		0.50	0.36	ug/L			11/02/13 01:23	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/02/13 01:23	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/02/13 01:23	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/02/13 01:23	1
Toluene	<0.33		0.50	0.33	ug/L			11/02/13 01:23	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/02/13 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		80 -					11/02/13 01:23	1

TestAmerica Chicago

## Client Sample Results

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-65597-7**

Date Collected: 10/23/13 12:00

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	740		10	6.0	ug/L			11/06/13 21:35	20
1,3,5-Trimethylbenzene	190		0.50	0.30	ug/L			11/02/13 01:54	1
Benzene	1200		10	7.2	ug/L			11/06/13 21:35	20
Ethylbenzene	980		10	7.4	ug/L			11/06/13 21:35	20
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/02/13 01:54	1
Naphthalene	210		5.0	2.4	ug/L			11/02/13 01:54	1
Toluene	9800		50	33	ug/L			11/06/13 21:04	100
Xylenes, Total	5500		30	12	ug/L			11/06/13 21:35	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	194		80 -					11/02/13 01:54	1
a,a,a-Trifluorotoluene	110		80 -					11/06/13 21:04	100
a,a,a-Trifluorotoluene	124		80 -					11/06/13 21:35	20

**Client Sample ID: P-8**

**Lab Sample ID: 500-65597-8**

Date Collected: 10/23/13 12:30

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/06/13 17:27	1
1,3,5-Trimethylbenzene	3.2		0.50	0.30	ug/L			11/02/13 02:25	1
Benzene	<0.36		0.50	0.36	ug/L			11/06/13 17:27	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/06/13 17:27	1
Methyl tert-butyl ether	0.70		0.50	0.24	ug/L			11/02/13 02:25	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/06/13 17:27	1
Toluene	<0.33		0.50	0.33	ug/L			11/06/13 17:27	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/06/13 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	111		80 -					11/02/13 02:25	1
a,a,a-Trifluorotoluene	96		80 -					11/06/13 17:27	1

**Client Sample ID: MW-9**

**Lab Sample ID: 500-65597-9**

Date Collected: 10/23/13 11:15

Matrix: Water

Date Received: 10/25/13 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.7		0.50	0.30	ug/L			11/02/13 02:55	1
1,3,5-Trimethylbenzene	0.76		0.50	0.30	ug/L			11/02/13 02:55	1
Benzene	<0.36		0.50	0.36	ug/L			11/02/13 02:55	1
Ethylbenzene	0.44	J	0.50	0.37	ug/L			11/02/13 02:55	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/02/13 02:55	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/02/13 02:55	1
Toluene	<0.33		0.50	0.33	ug/L			11/02/13 02:55	1
Xylenes, Total	2.1		1.5	0.58	ug/L			11/02/13 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		80 -					11/02/13 02:55	1

TestAmerica Chicago

## Client Sample Results

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-65597-10**

Date Collected: 10/23/13 11:30

Matrix: Water

Date Received: 10/25/13 08:50

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 23:10	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 23:10	1
Benzene	<0.36		0.50	0.36	ug/L			10/31/13 23:10	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/31/13 23:10	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/31/13 23:10	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/31/13 23:10	1
Toluene	<0.33		0.50	0.33	ug/L			10/31/13 23:10	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/31/13 23:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	94		80 -					10/31/13 23:10	1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-65597-11**

Date Collected: 10/23/13 13:00

Matrix: Water

Date Received: 10/25/13 08:50

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 23:41	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 23:41	1
Benzene	<0.36		0.50	0.36	ug/L			10/31/13 23:41	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/31/13 23:41	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/31/13 23:41	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/31/13 23:41	1
Toluene	<0.33		0.50	0.33	ug/L			10/31/13 23:41	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/31/13 23:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	105		80 -					10/31/13 23:41	1

## Definitions/Glossary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## QC Association Summary

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### GC VOA

#### Analysis Batch: 118365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65597-10	MW-10	Total/NA	Water	WDNR	
500-65597-11	MW-11	Total/NA	Water	WDNR	
LCS 490-118365/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-118365/29	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-118365/18	Method Blank	Total/NA	Water	WDNR	
MB 490-118365/5	Method Blank	Total/NA	Water	WDNR	

#### Analysis Batch: 118659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65597-5	MW-5	Total/NA	Water	WDNR	
500-65597-6	MW-6	Total/NA	Water	WDNR	
500-65597-7	MW-7	Total/NA	Water	WDNR	
500-65597-8	P-8	Total/NA	Water	WDNR	
500-65597-9	MW-9	Total/NA	Water	WDNR	
LCS 490-118659/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-118659/28	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-118659/17	Method Blank	Total/NA	Water	WDNR	
MB 490-118659/5	Method Blank	Total/NA	Water	WDNR	

#### Analysis Batch: 119732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-65597-1	MW-1R	Total/NA	Water	WDNR	
500-65597-1	MW-1R	Total/NA	Water	WDNR	
500-65597-2	MW-2	Total/NA	Water	WDNR	
500-65597-3	MW-3	Total/NA	Water	WDNR	
500-65597-4	MW-4	Total/NA	Water	WDNR	
500-65597-7	MW-7	Total/NA	Water	WDNR	
500-65597-7	MW-7	Total/NA	Water	WDNR	
500-65597-8	P-8	Total/NA	Water	WDNR	
LCS 490-119732/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-119732/25	Lab Control Sample Dup	Total/NA	Water	WDNR	
MB 490-119732/12	Method Blank	Total/NA	Water	WDNR	

# Surrogate Summary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	TFT (80-)	Percent Surrogate Recovery (Acceptance Limits)
500-65597-1	MW-1R	126	
500-65597-1	MW-1R	163	
500-65597-2	MW-2	188	
500-65597-3	MW-3	184	
500-65597-4	MW-4	78 X	
500-65597-5	MW-5	103	
500-65597-6	MW-6	82	
500-65597-7	MW-7	194	
500-65597-7	MW-7	110	
500-65597-7	MW-7	124	
500-65597-8	P-8	111	
500-65597-8	P-8	96	
500-65597-9	MW-9	88	
500-65597-10	MW-10	94	
500-65597-11	MW-11	105	
LCS 490-118365/3	Lab Control Sample	130	
LCS 490-118659/3	Lab Control Sample	124	
LCS 490-119732/3	Lab Control Sample	123	
LCSD 490-118365/29	Lab Control Sample Dup	129	
LCSD 490-118659/28	Lab Control Sample Dup	111	
LCSD 490-119732/25	Lab Control Sample Dup	134	
MB 490-118365/18	Method Blank	97	
MB 490-118365/5	Method Blank	95	
MB 490-118659/17	Method Blank	82	
MB 490-118659/5	Method Blank	98	
MB 490-119732/12	Method Blank	103	

**Surrogate Legend**

TFT = a,a,a-Trifluorotoluene

## QC Sample Results

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-118365/18

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 20:05	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 20:05	1
Benzene	<0.36		0.50	0.36	ug/L			10/31/13 20:05	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/31/13 20:05	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/31/13 20:05	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/31/13 20:05	1
Toluene	<0.33		0.50	0.33	ug/L			10/31/13 20:05	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/31/13 20:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		80 -		10/31/13 20:05	1

Lab Sample ID: MB 490-118365/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 13:23	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/31/13 13:23	1
Benzene	<0.36		0.50	0.36	ug/L			10/31/13 13:23	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/31/13 13:23	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/31/13 13:23	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/31/13 13:23	1
Toluene	<0.33		0.50	0.33	ug/L			10/31/13 13:23	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/31/13 13:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		80 -		10/31/13 13:23	1

Lab Sample ID: LCS 490-118365/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 118365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	100	97.2		ug/L		97	60 - 131
1,3,5-Trimethylbenzene	100	96.6		ug/L		97	70 - 130
Benzene	100	91.6		ug/L		92	69 - 129
Ethylbenzene	100	97.6		ug/L		98	70 - 130
Methyl tert-butyl ether	100	91.5		ug/L		91	57 - 138
m-Xylene & p-Xylene	200	190		ug/L		95	65 - 127
Naphthalene	100	100		ug/L		100	69 - 133
o-Xylene	100	95.7		ug/L		96	64 - 128
Toluene	100	96.5		ug/L		97	66 - 127
Xylenes, Total	300	286		ug/L		95	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	130		80 -

TestAmerica Chicago



# QC Sample Results

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-118365/29  
Matrix: Water  
Analysis Batch: 118365

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	100	100		ug/L		100	60 - 131	3	43
1,3,5-Trimethylbenzene	100	97.8		ug/L		98	70 - 130	1	20
Benzene	100	101		ug/L		101	69 - 129	10	33
Ethylbenzene	100	100		ug/L		100	70 - 130	2	35
Methyl tert-butyl ether	100	106		ug/L		106	57 - 138	15	40
m-Xylene & p-Xylene	200	194		ug/L		97	65 - 127	2	39
Naphthalene	100	112		ug/L		112	69 - 133	11	48
o-Xylene	100	96.8		ug/L		97	64 - 128	1	35
Toluene	100	100		ug/L		100	66 - 127	4	34
Xylenes, Total	300	291		ug/L		97		2	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
a,a,a-Trifluorotoluene	129		80 -

Lab Sample ID: MB 490-118659/17  
Matrix: Water  
Analysis Batch: 118659

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/01/13 22:18	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/01/13 22:18	1
Benzene	<0.36		0.50	0.36	ug/L			11/01/13 22:18	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/01/13 22:18	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/01/13 22:18	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/01/13 22:18	1
Toluene	<0.33		0.50	0.33	ug/L			11/01/13 22:18	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/01/13 22:18	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		80 -		11/01/13 22:18	1

Lab Sample ID: MB 490-118659/5  
Matrix: Water  
Analysis Batch: 118659

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/01/13 15:38	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/01/13 15:38	1
Benzene	<0.36		0.50	0.36	ug/L			11/01/13 15:38	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/01/13 15:38	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/01/13 15:38	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/01/13 15:38	1
Toluene	<0.33		0.50	0.33	ug/L			11/01/13 15:38	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/01/13 15:38	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		80 -		11/01/13 15:38	1

TestAmerica Chicago

# QC Sample Results

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-118659/3

Matrix: Water

Analysis Batch: 118659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
1,2,4-Trimethylbenzene	100	101		ug/L		101	60 - 131	
1,3,5-Trimethylbenzene	100	98.9		ug/L		99	70 - 130	
Benzene	100	100		ug/L		100	69 - 129	
Ethylbenzene	100	101		ug/L		101	70 - 130	
Methyl tert-butyl ether	100	101		ug/L		101	57 - 138	
m-Xylene & p-Xylene	200	195		ug/L		98	65 - 127	
Naphthalene	100	98.9		ug/L		99	69 - 133	
o-Xylene	100	97.2		ug/L		97	64 - 128	
Toluene	100	99.4		ug/L		99	66 - 127	
Xylenes, Total	300	292		ug/L		97		

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	124		80 -

Lab Sample ID: LCSD 490-118659/28

Matrix: Water

Analysis Batch: 118659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits			
1,2,4-Trimethylbenzene	100	103		ug/L		103	60 - 131	1	43	
1,3,5-Trimethylbenzene	100	99.8		ug/L		100	70 - 130	1	20	
Benzene	100	102		ug/L		102	69 - 129	1	33	
Ethylbenzene	100	102		ug/L		102	70 - 130	1	35	
Methyl tert-butyl ether	100	104		ug/L		104	57 - 138	2	40	
m-Xylene & p-Xylene	200	197		ug/L		99	65 - 127	1	39	
Naphthalene	100	99.3		ug/L		99	69 - 133	0	48	
o-Xylene	100	98.5		ug/L		98	64 - 128	1	35	
Toluene	100	102		ug/L		102	66 - 127	2	34	
Xylenes, Total	300	296		ug/L		99		1		

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	111		80 -

Lab Sample ID: MB 490-119732/12

Matrix: Water

Analysis Batch: 119732

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/06/13 15:54	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			11/06/13 15:54	1
Benzene	<0.36		0.50	0.36	ug/L			11/06/13 15:54	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			11/06/13 15:54	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			11/06/13 15:54	1
Naphthalene	<2.4		5.0	2.4	ug/L			11/06/13 15:54	1
Toluene	<0.33		0.50	0.33	ug/L			11/06/13 15:54	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			11/06/13 15:54	1

TestAmerica Chicago

# QC Sample Results

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 490-119732/12  
 Matrix: Water  
 Analysis Batch: 119732

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	103		80 -		11/06/13 15:54	1

Lab Sample ID: LCS 490-119732/3  
 Matrix: Water  
 Analysis Batch: 119732

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,2,4-Trimethylbenzene	100	105		ug/L		105	60 - 131	
1,3,5-Trimethylbenzene	100	102		ug/L		102	70 - 130	
Benzene	100	86.4		ug/L		86	69 - 129	
Ethylbenzene	100	102		ug/L		102	70 - 130	
Methyl tert-butyl ether	100	87.8		ug/L		88	57 - 138	
m-Xylene & p-Xylene	200	198		ug/L		99	65 - 127	
Naphthalene	100	112		ug/L		112	69 - 133	
o-Xylene	100	99.1		ug/L		99	64 - 128	
Toluene	100	95.7		ug/L		96	66 - 127	
Xylenes, Total	300	297		ug/L		99		

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	123		80 -

Lab Sample ID: LCSD 490-119732/25  
 Matrix: Water  
 Analysis Batch: 119732

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
1,2,4-Trimethylbenzene	100	103		ug/L		103	60 - 131	2	43	
1,3,5-Trimethylbenzene	100	101		ug/L		101	70 - 130	1	20	
Benzene	100	87.5		ug/L		87	69 - 129	1	33	
Ethylbenzene	100	101		ug/L		101	70 - 130	1	35	
Methyl tert-butyl ether	100	87.6		ug/L		88	57 - 138	0	40	
m-Xylene & p-Xylene	200	197		ug/L		98	65 - 127	1	39	
Naphthalene	100	105		ug/L		105	69 - 133	7	48	
o-Xylene	100	98.8		ug/L		99	64 - 128	0	35	
Toluene	100	95.8		ug/L		96	66 - 127	0	34	
Xylenes, Total	300	296		ug/L		99		0		

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	134		80 -

# Lab Chronicle

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

## Client Sample ID: MW-1R

Lab Sample ID: 500-65597-1

Date Collected: 10/23/13 16:00

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		100	119732	11/06/13 17:58	KML	TAL NSH
Total/NA	Analysis	WDNR		20	119732	11/06/13 18:29	KML	TAL NSH

## Client Sample ID: MW-2

Lab Sample ID: 500-65597-2

Date Collected: 10/23/13 15:30

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		20	119732	11/06/13 20:02	KML	TAL NSH

## Client Sample ID: MW-3

Lab Sample ID: 500-65597-3

Date Collected: 10/23/13 15:00

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	119732	11/06/13 16:25	KML	TAL NSH

## Client Sample ID: MW-4

Lab Sample ID: 500-65597-4

Date Collected: 10/23/13 14:30

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	119732	11/06/13 16:56	KML	TAL NSH

## Client Sample ID: MW-5

Lab Sample ID: 500-65597-5

Date Collected: 10/23/13 14:00

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118659	11/02/13 00:52	KML	TAL NSH

## Client Sample ID: MW-6

Lab Sample ID: 500-65597-6

Date Collected: 10/23/13 13:30

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118659	11/02/13 01:23	KML	TAL NSH

TestAmerica Chicago

## Lab Chronicle

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

**Client Sample ID: MW-7**

**Lab Sample ID: 500-65597-7**

Date Collected: 10/23/13 12:00

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118659	11/02/13 01:54	KML	TAL NSH
Total/NA	Analysis	WDNR		100	119732	11/06/13 21:04	KML	TAL NSH
Total/NA	Analysis	WDNR		20	119732	11/06/13 21:35	KML	TAL NSH

**Client Sample ID: P-8**

**Lab Sample ID: 500-65597-8**

Date Collected: 10/23/13 12:30

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118659	11/02/13 02:25	KML	TAL NSH
Total/NA	Analysis	WDNR		1	119732	11/06/13 17:27	KML	TAL NSH

**Client Sample ID: MW-9**

**Lab Sample ID: 500-65597-9**

Date Collected: 10/23/13 11:15

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118659	11/02/13 02:55	KML	TAL NSH

**Client Sample ID: MW-10**

**Lab Sample ID: 500-65597-10**

Date Collected: 10/23/13 11:30

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118365	10/31/13 23:10	KML	TAL NSH

**Client Sample ID: MW-11**

**Lab Sample ID: 500-65597-11**

Date Collected: 10/23/13 13:00

Matrix: Water

Date Received: 10/25/13 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	118365	10/31/13 23:41	KML	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Certification Summary

Client: Cedar Corporation  
 Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-14 *
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Chicago



## Certification Summary

Client: Cedar Corporation  
Project/Site: Pap's General Store - 2880

TestAmerica Job ID: 500-65597-1

### Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Board Street, University Park, IL 60  
Phone: 708.534.6200 Fax: 708.534



500-85597 COC

Report To Contact: <u>Scott McLurdy</u> Company: _____ Address: _____ Address: _____ Phone: _____ Fax: _____ E-Mail: _____	(optional)	Bill To Contact: <u>Same</u> Company: _____ Address: _____ Address: _____ Phone: _____ Fax: _____ PO#/Reference# _____	(optional)
---	------------	---	------------

## Chain of Custody Record

Lab Job #: 500-65597  
Chain of Custody Number: \_\_\_\_\_  
Page 1 of 2  
Temperature °C of Cooler: 1.7

Client		Client Project #		Preservative		Parameter		Comments		
<u>Cedar Corp</u>		<u>2880</u>		<u>1</u>		<u>Puoc + uppk</u>		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		# of Containers		Matrix		Comments		
<u>Paps General Store</u>										
Project Location/State		Lab PM		Date		Time		Comments		
<u>Balsam Lake, WI</u>		<u>Sandie Fredrick</u>								
Sampler		Sample ID		Date		Time		Comments		
<u>Ryan Statue</u>										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
<u>1</u>		<u>MW-1R</u>	<u>10/23/13</u>	<u>1600</u>	<u>2</u>	<u>W</u>	<u>X</u>			
<u>2</u>		<u>MW-2</u>		<u>1530</u>						
<u>3</u>		<u>MW-3</u>		<u>1500</u>						
<u>4</u>		<u>MW-4</u>		<u>1430</u>						
<u>5</u>		<u>MW-5</u>		<u>1400</u>						
<u>6</u>		<u>MW-6</u>		<u>1330</u>						
<u>7</u>		<u>MW-7</u>		<u>1200</u>						
<u>8</u>		<u>P-8</u>		<u>1230</u>						
<u>9</u>		<u>MW-9</u>		<u>1115</u>						
<u>10</u>		<u>MW-10</u>		<u>1130</u>						

Turnaround Time Required (Business Days)  
 1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other  
 Requested Due Date: \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested By <u>[Signature]</u> Company: <u>Cedar Corp</u> Date: <u>10/24/13</u> Time: <u>830</u>	Received By <u>[Signature]</u> Company: <u>TA-CPI</u> Date: <u>10/25/13</u> Time: <u>0850</u>
Requested By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____
Requested By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____

Lab Courier: \_\_\_\_\_  
Shipped: Fed-X  
Hand Delivered: \_\_\_\_\_

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments: \_\_\_\_\_  
Lab Comments: \_\_\_\_\_



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.634.6200 Fax: 708.634.6211

Report To (optional) Scott McLurdy  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional) Same  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-65597  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: 117

Client		Client Project #		Preservative													
<u>Cedar Corp</u>		<u>2880</u>		<u>1</u>													
Project Name		Lab Project #		Parameter													
<u>Paps General Store</u>		<u>Sandie Fredrick</u>		<u>PWCC + WWT</u>													
Project Location/Date		Sampler															
<u>Balsam Lake, WI</u>		<u>Ryan Sta G</u>															
Lab ID	MCMSCD	Sample ID	Sampling		# of Containers	Matrix											
			Date	Time													
<u>111</u>		<u>MW-11</u>	<u>10/23/13</u>	<u>1300</u>	<u>2</u>	<u>W</u>	<u>X</u>										
												Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other					
												Comments					

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Date Date \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for \_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested By <u>[Signature]</u>	Company <u>Cedar Corp</u>	Date <u>10/24/13</u>	Time <u>1300</u>	Received By <u>[Signature]</u>	Company <u>TA-CHT</u>	Date <u>10/25/13</u>	Time <u>0850</u>
Requested By	Company	Date	Time	Received By	Company	Date	Time
Requested By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier  
 Shipped FedEx  
 Hand Delivered

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MIS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments

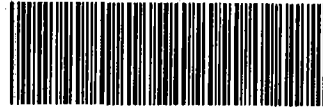
Lab Comments:



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
Nashville, TN

## COOLER RECEIPT



500-85597 Chain of Custody

Cooler Received/Opened On: 10/26/2013 @ 0845

Tracking # 4529 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 12080142

1. Temperature of rep. sample or temp blank when opened: 1.5 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO  NA
4. Were custody seals on outside of cooler?  YES...NO...NA  
If yes, how many and where: 1 Front / 1 Back
5. Were the seals intact, signed, and dated correctly?  YES...NO...NA
6. Were custody papers inside cooler?  YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) LF

7. Were custody seals on containers: YES  NO and intact YES NO  NA  
Were these signed and dated correctly? YES...NO...  NA
8. Packing mat'l used?  Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process:  Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition (unbroken)?  YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA
12. Did all container labels and tags agree with custody papers?  YES...NO...NA
- 13a. Were VOA vials received?  YES...NO...NA  
b. Was there any observable headspace present in any VOA vial? YES...NO...  NA
14. Was there a Trip Blank in this cooler? YES...NO...  NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (Initial) LF

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...  NA  
b. Did the bottle labels indicate that the correct preservatives were used  YES...NO...NA
16. Was residual chlorine present? YES...NO...  NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) LF

17. Were custody papers properly filled out (Ink, signed, etc)?  YES...NO...NA
18. Did you sign the custody papers in the appropriate place?  YES...NO...NA
19. Were correct containers used for the analysis requested?  YES...NO...NA
20. Was sufficient amount of sample sent in each container?  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) LF

I certify that I attached a label with the unique LIMS number to each container (Initial) LF

21. Were there Non-Conformance Issues at login? YES.  NO Was a NCM generated? YES..  NO.#

**TestAmerica Chicago**

2417 Bond Street  
University Park, IL 60484  
Phone (708) 534-5200 Fax (708) 534-5211

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab Pkt: Fredrick, Sandie J		Carrier Tracking Note:		COC Nbr: 500-41595.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: sandie.fredrick@testamericainc.com				Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc		Address: 2960 Foster Creighton Drive, Nashville State, Zip: TN, 37204 Phone: 615-726-0177(Tel) 615-726-3404(Fax) Email:		Date Date Requested: 11/5/2013 TAT Requested (days):		<b>Analysis Requested</b>		Job #: 500-65597-1	
Project Name: Pap's General Store - 2880 Site:		Project #: 50006556 SSOM#:		PO #:		WO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNO2 P - Na2O4S Q - Na2SO8 R - Na2S2O8 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=Comp, G=grab)</b>		<b>Matrix (Water, Soil, Sediment, Air, etc.)</b>	
MW-1R (500-65597-1)		10/23/13		18:00 Central		Water		X	
MW-2 (500-65597-2)		10/23/13		15:30 Central		Water		X	
MW-3 (500-65597-3)		10/23/13		15:00 Central		Water		X	
MW-4 (500-65597-4)		10/23/13		14:30 Central		Water		X	
MW-5 (500-65597-5)		10/23/13		14:00 Central		Water		X	
MW-6 (500-65597-6)		10/23/13		13:30 Central		Water		X	
MW-7 (500-65597-7)		10/23/13		12:00 Central		Water		X	
P-8 (500-65597-8)		10/23/13		12:30 Central		Water		X	
MW-9 (500-65597-9)		10/23/13		11:15 Central		Water		X	
MW-10 (500-65597-10)		10/23/13		11:30 Central		Water		X	
MW-11 (500-65597-11)		10/23/13		13:00 Central		Water		X	
<b>Possible Hazard Identification</b> Unconfirmed					<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 10/25/13		Company: TAE-Chicago		Received by: <i>[Signature]</i>		Date/Time: 10-20-13 0845	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Carrier Temperature(s) °C and Other Remarks:				

Loc: 500  
65597

11/7/2013

Page 26 of 28

## Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-65597-1

Login Number: 65597

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Cedar Corporation

Job Number: 500-65597-1

Login Number: 65597

List Source: TestAmerica Nashville

List Number: 1

List Creation: 10/26/13 04:32 PM

Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	