KSingh | Engineers Scientists Consultants

January 6, 2017

Mr. Wendell Wojner
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711-5397

Project # 4870

Subject: Status Report and Plan for Additional Groundwater Monitoring
Erickson Freedom Station, 2216 University Avenue, Madison, WI 53726
WDNR BRRTS #03-13-284909

Dear Mr. Wojner:

On behalf of Open Pantry Food Marts of Wisconsin and Erickson Oil Products, we are pleased to submit a Status Report on groundwater monitoring for the referenced property.

December Sampling Results

Groundwater monitoring for PVOCs and Naphthalene was performed on December 6, 2016 for monitoring wells MW-01 to MW-06. No free product was identified in the wells prior to or at the time of December sampling. Groundwater elevation data is summarized in Table 1. Figure 1 provides a site layout and Figure 2 provides groundwater elevation and flow direction.

Analytical test results are included in Attachment A and summarized in Table 2. Mann-Kendall worksheets with the latest data are included in Attachment B. Mann-Kendall results have not changed significantly. Similar to the August 2016 data, current analysis shows an increasing trend for naphthalene in monitoring well MW-05 and an increasing trend for benzene in monitoring well MW-06 with other parameters having stable or declining trends.

Additional Information

In an email dated August 3, 2016, Mr. Wendell Wojner of the WDNR agreed that performing additional soil borings and investigation would not be likely to clarify the origin of contamination. Therefore, the WDNR agreed that only additional groundwater monitoring would be needed to complete the technical aspect of the investigation in establishing a stable or declining plume of contamination. A copy of this email was provided in the September 2016 Status Report.

However, as an increasing trend of naphthalene and MW-05 benzene in MW-06 is currently identified in the Mann-Kendall results, we have requested Open Pantry provide tank and piping testing results determine that a release is not continuing to occur.

Conclusion and Recommendation

Two additional rounds of groundwater sampling a recommended for March and June 2017. A status report will be prepared summarizing the two rounds of groundwater sampling performed and a recommendation for additional groundwater monitoring or submission of an amended Case Closure application will be included at that time.

Please call us, if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

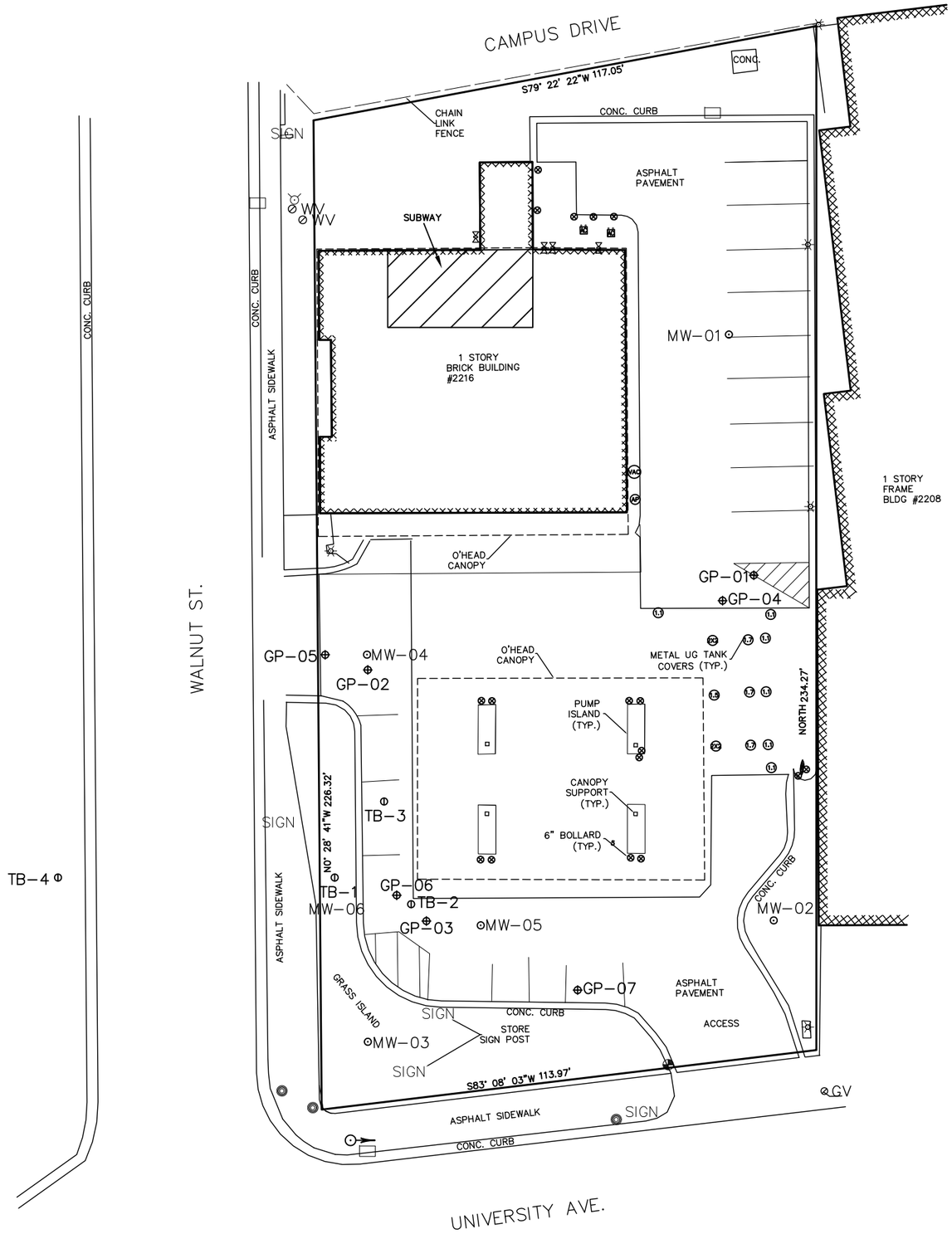
Michelle L. Peed
Senior Geologist

Robert T. Reineke, P.E.
Principal Engineer

Pratap N. Singh, Ph.D., P.E
Pratap N. Singh, Ph.D., P.E

cc: Mr. Justin Borchardt / Open Pantry Food Marts of Wisconsin
Mr. Gary VanderVorst / Erickson Oil Products

FIGURES



LEGEND

- IP — IRON PIPE
- BENCHMARK
- UTILITY MANHOLE
- SIGN — SIGN
- AIR CONDITIONER
- TRAFFIC SIGNAL
- ELECTRIC METER
- GUY — GUY POLE
- METAL UG TANK COVER
- HC — HANDICAPPED
- VAC — VACUUM
- AP — AIR PUMP
- CULVERT PIPE END
- FILLER CAP — FILLER CAP
- MONITORING WELL
- GV — GAS VALVE
- 6" BOLLARDS
- CANOPY SUPPORT
- MB — MAILBOX
- CATCH BASIN
- WV — WATER VALVE
- CONTROL VALVE
- POLE
- PEDESTAL
- POWER POLE
- SEPV — SEPTIC VALVE
- LIGHT POLE
- FIRE HYDRANT
- E — UG ELECTRIC
- W — UG WATER
- OH — OVERHEAD
- FO — UG FIBER OPTIC
- UG TELEPHONE
- G — UG GAS LINE
- Temporary Boring
- 5 — Benzene Concentration (ug/L)

SCALE 1" = 20'
0' 5' 10' 20'

DRAWN BY:	MP
CHECKED BY:	RR
DATE:	1/5/17
PROJECT NO.:	4870
DRAWING FILE:	Figure 1

ENGINEER

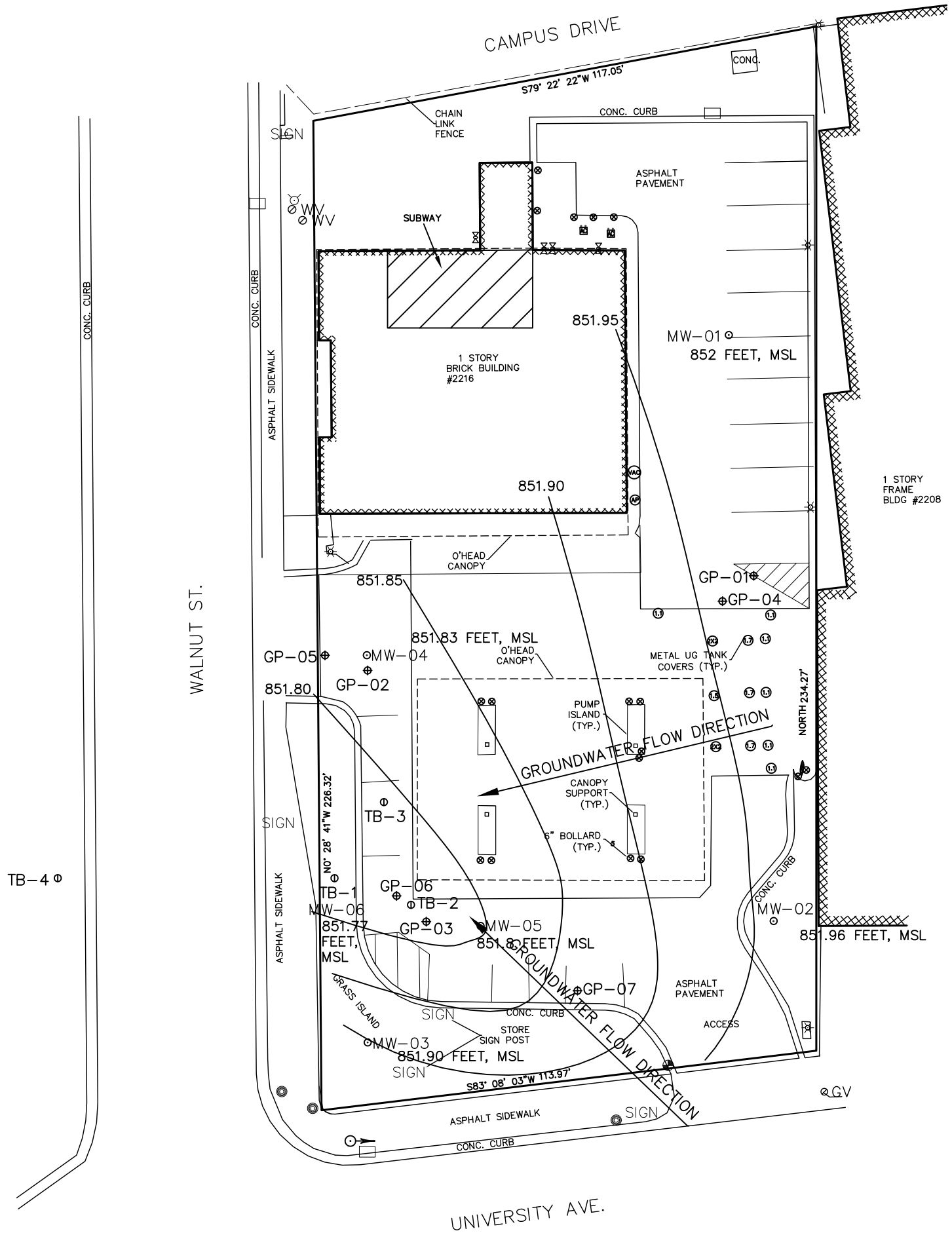
K. Singh & Associates, Inc.

ENGINEERS, SCIENTISTS & ENVIRONMENTAL MANAGEMENT CONSULTANTS
3636 N 124th Street
Wauwatosa, WI 53222
Phone: (262) 821-1171 KSA Website www.ksaconsultants.com

TITLE: FIGURE 1: SITE LAYOUT MAP

CLIENT: OPEN PANTRY FOOD MARTS OF WISCONSIN, INC
10505 CORPORATE DRIVE,
SUITE 101
PLEASANT PRAIRIE, WI
53158

SITE: ERICKSON FREEDOM STATION
2216 UNIVERSITY AVENUE, MADISON, WI



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- 5 — Benzene Concentration (ug/L)

SCALE 1" = 20'
0' 5' 10' 20'

DRAWN BY:	MP
CHECKED BY:	RR
DATE:	1/5/17
PROJECT NO.:	4870
DRAWING FILE:	Figure 2

ENGINEER
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Wauwatosa, WI 53222
Phone: (262) 821-1171 KSA Website www.ksaconsultants.com

TITLE: FIGURE 2:
GROUNDWATER ELEVATION
(12/6/16)

CLIENT: OPEN PANTRY FOOD
MARTS OF WISCONSIN, INC
10505 CORPORATE DRIVE,
SUITE 101
PLEASANT PRAIRIE, WI
53158

SITE: ERICKSON FREEDOM
STATION
2216 UNIVERSITY
AVENUE, MADISON, WI

TABLES

Table 1
Summary of Groundwater Elevation Measurements
Erickson Freedom Station, 2216 University Avenue, Madison, WI

Monitoring Well	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02
Sampling Date	10/24/2011	1/16/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	8/30/2016	12/6/2016	10/24/2011	1/16/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	9/7/2016	12/6/2016
PVC Elevation (feet, MSL)	868.92	868.92	868.92	868.92	868.92	868.92	868.92	868.92	874.31	874.31	874.31	874.31	874.31	874.31	874.31	874.31
Depth to Water (feet)	8.09	17.56	20.32	15.40	17.40	17.13	16.93	16.92	23.55	23.05	25.62	23.20	22.82	22.27	22.48	22.35
Unadjusted Groundwater Elevation (feet, MSL)	860.83	851.36	848.60	853.52	851.52	851.79	851.99	852.00	850.76	851.26	848.69	851.11	851.49	852.04	851.83	851.96
Depth to Free Product (feet)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thickness of Free Product (feet)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adjusted Groundwater Elevation (feet, MSL)	860.83	851.36	848.60	853.52	851.52	851.79	851.99	852.00	848.96	848.96	848.69	851.11	851.49	852.04	851.83	851.96
Top of Screen Elevation (feet, MSL)	850.92	850.92	850.92	850.92	850.92	850.92	850.92	850.92	856.31	856.31	856.31	856.31	856.31	856.31	856.31	856.31
Bottom of Screen Elevation (feet, MSL)	840.92	840.92	840.92	840.92	840.92	840.92	840.92	840.92	846.31	846.31	846.31	846.31	846.31	846.31	846.31	846.31

Monitoring Well	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04
Sampling Date	10/24/2011	1/16/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	9/7/2016	12/6/2016	10/24/2011	1/16/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	8/30/2016	12/6/2016
PVC Elevation (feet, MSL)	874.65	874.65	874.65	874.65	874.65	874.65	874.65	874.65	869.38	869.38	869.38	869.38	869.38	869.38	869.38	869.38
Depth to Water (feet)	23.96	23.50	25.96	23.55	23.20	22.60	22.95	22.75	18.77	18.28	25.92	18.75	18.05	17.33	17.68	17.55
Unadjusted Groundwater Elevation (feet, MSL)	850.69	851.15	848.69	851.10	851.45	852.05	851.70	851.90	850.61	851.10	843.46	850.63	851.33	852.05	851.70	851.83
Depth to Free Product (feet)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thickness of Free Product (feet)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adjusted Groundwater Elevation (feet, MSL)	850.69	851.15	848.69	851.10	851.45	852.05	851.70	851.90	850.61	851.10	843.46	850.63	851.33	852.05	851.70	851.83
Top of Screen Elevation (feet, MSL)	855.65	855.65	855.65	855.65	855.65	855.65	855.65	855.65	853.38	853.38	853.38	853.38	853.38	853.38	853.38	853.38
Bottom of Screen Elevation (feet, MSL)	845.65	845.65	845.65	845.65	845.65	845.65	845.65	845.65	843.38	843.38	843.38	843.38	843.38	843.38	843.38	843.38

Monitoring Well	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06
Sampling Date	10/24/2011	1/16/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	8/30/2016	12/6/2016	10/24/2011	6/15/2012	12/18/2012	6/18/2014	10/2/2014	12/23/2014	8/30/2016	12/6/2016
PVC Elevation (feet, MSL)	870.28	870.28	870.28	870.28	870.28	870.28	870.28	870.28	NI	871.07	871.07	871.07	871.07	871.07	871.07	871.07
Depth to Water (feet)	19.98	19.65	21.76	18.05	18.95	18.33	17.57	18.48	--	21.98	22.84	20.17	19.70	19.00	19.38	19.30
Unadjusted Groundwater Elevation (feet, MSL)	850.30	850.63	848.52	852.23	851.33	851.95	852.71	851.80	---	849.09	848.23	850.90	851.37	852.07	851.69	851.77
Depth to Free Product (feet)	19.52	18.99	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thickness of Free Product (feet)	0.46	0.66	0.00	0.02	0.00	0.00	0.00	0.00	---	0.00	0.34	0.02	0.00	0.00	0.00	0.00
Adjusted Groundwater Elevation (feet, MSL)	850.69	851.19	848.52	852.25	851.33	851.95	852.71	851.80	---	849.09	848.52	850.92	851.37	852.07	851.69	851.77
Top of Screen Elevation (feet, MSL)	853.28	853.28	853.28	853.28	853.28	853.28	853.28	853.28	---	853.07	853.07	853.07	853.07	853.07	853.07	853.07
Bottom of Screen Elevation (feet, MSL)	843.28	843.28	843.28	843.28	843.28	843.28	843.28	843.28	---	843.07	843.07	843.07	843.07	843.07	843.07	843.07

Table 2
Summary of Groundwater Quality Test Results
Erickson Freedom Station, 2216 University Avenue, Madison, Wisconsin

Monitoring Well	Sampling Date	Screen Depth	GRO	1,2,4-TMB	1,3,5-TMB	Benzene	Ethylbenzene	Methyl tert-butyl ether	Naphthalene	Tetrachloroethene	Toluene	Xylenes Total
Units		(feet, bgs)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GP-04	5/18/2011	13-18	<32.4	<0.97	<0.83	5.9	6.2	<0.061	NT	<0.45	4.5	1.2
MW-01	10/24/2011	18-28	<100	<1.0	<1.0	<1.0	<1.0	<1.0	NT	<1.0	<1.0	<3.0
MW-01	1/16/2012	18-28	NT	<0.43	<0.40	<0.39	<0.41	<0.38	NT	NT	<0.42	<1.25
MW-01	12/18/2012	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-01	6/18/2014	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-01	10/2/2014	18-28	NT	9.4	2.1	<0.36	0.78	2.5	15	NT	0.95	9.6
MW-01	12/23/2014	18-28	NT	<0.30	<0.30	<0.36	<0.37	1.3	<2.4	NT	<0.33	<0.58
MW-01	8/30/2016	18-28	NT	0.6	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-01	12/6/2016	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-02	10/24/2011	18-28	<100	<1.0	<1.0	<1.0	<1.0	<1.0	---	*1.20*	<1.0	<3.0
MW-02	1/16/2012	18-28	NT	<0.43	<0.40	<0.39	<0.41	<0.38	---	NT	<0.42	<1.25
MW-02	12/18/2012	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-02	6/18/2014	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-02	10/2/2014	18-28	NT	1.6	0.33	<0.36	<0.37	<0.24	4	NT	<0.33	1.3
MW-02	12/23/2014	18-28	NT	<0.30	<0.30	<0.36	<0.37	1.2	<2.4	NT	<0.33	<0.58
MW-02	9/7/2016	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-02	12/6/2016	18-28	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-03	10/24/2011	19-29	<100	<1.0	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<3.0
MW-03	1/16/2012	19-29	NT	<0.43	<.0.40	<0.39	<0.41	<0.38	---	NT	<0.42	<1.25
MW-03	12/18/2012	19-29	NT	<0.30	<0.30	<0.36	<0.37	0.25	<2.4	NT	<0.33	<0.58
MW-03	6/18/2014	19-29	NT	0.45	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-03	10/2/2014	19-29	NT	0.72	<0.30	<0.36	<0.37	<0.24	2.5	NT	<0.33	<0.58
MW-03	12/23/2014	19-29	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-03	9/7/2016	19-29	NT	<0.30	<0.30	<0.36	<0.37	0.55	<2.4	NT	<0.33	<0.58
MW-03	12/6/2016	19-29	NT	<0.30	<0.30	<0.36	<0.37	<0.24	<2.4	NT	<0.33	<0.58
MW-04	10/24/2011	16-26	<100	1.2	<1.0	<1.0	<1.0	<1.0	---	<1.0	<1.0	<3.0
MW-04	1/16/2012	16-26	NT	<0.43	<0.40	<0.39	<0.41	<0.38	---	NT	<0.42	<1.25
MW-04	12/18/2012	16-26	NT	14	0.76	620	19	*25*	*62*	NT	7.3	17
MW-04	6/18/2014	16-26	NT	77	<0.30	660	60	*20*	*24*	NT	12	71
MW-04	10/2/2014	16-26	NT	52	6.5	410	47	*17*	*23*	NT	10	71
MW-04	12/23/2014	16-26	NT	14	2.1	270	17	*7.2*	*20*	NT	5.5	17
MW-04	8/30/2016	16-26	NT	<0.30	<0.30	3.9	0.89	2.1	3.2	NT	<0.33	<0.58
MW-04	12/6/2016	16-26	NT	<0.30	<0.30	1.6	<0.37	0.46	<2.4	NT	<0.33	<0.58
MW-05	10/24/2011	17-27	Monitoring well not sampled due to presence of free product.									
MW-05	1/16/2012	17-27	Monitoring well not sampled due to presence of free product.									
MW-05	12/18/2012	17-27	NT	4,700	1,200	740	3,100	170	1,400	NT	7,400	22,000
MW-05	6/18/2014	17-27	NT	11,000	1,300	650	3,000	70	1,300	NT	12,000	30,000
MW-05	10/2/2014	17-27	NT	2,900	700	280	1,700	83	1,300	NT	3,300	1,100
MW-05	12/23/2014	17-27	NT	4,300	1,200	350	2,400	57	1,900	NT	3,900	15,000
MW-05	8/30/2016	17-27	NT	4,900	1,200	91	1,100	100	2,500	NT	1,100	11,000
MW-05	12/6/2016	17-27	NT	10,000	3,200	180	1,200	110	2,000	NT	850	15,000
MW-06	6/7/2012	18-28	NT	3,420	952	3,460	3,440	210	1,840	NT	9,050	15,300
MW-06	12/18/2012	18-28	Monitoring well not sampled due to presence of free product.									
MW-06	6/18/2014	18-28	NT	9,100	2600	4,800	4,900	280	2,100	NT	16,000	33,000
MW-06	10/2/2014	18-28	NT	3,500	850	5,300	2,600	94	1,500	NT	8,900	17,000
MW-06	12/23/2014	18-28	NT	18,000	5,300	4,000	4,800	140	7,700	NT	7,400	41,000
MW-06	8/30/2016	18-28	NT	3,200	800	5,800	2,300	100	1,400	NT	3,400	14,000
MW-06	12/6/2016	18-28	NT	4,200	1,200	6,400	2,800	220	1,200	NT	3,800	18,000
TB-2	6/7/2012	20-25	NT	9,420	2,840	5,680	7,180	683	7,020	NT	29,100	31,500
TB-3	6/8/2012	17.5-22.5	NT	946	101	108	1,210	103	700	NT	856	3,500
TB-4	6/15/2012	20-25	NT	<0.250	<0.250	0.253	<0.250	<0.250	<2.50	NT	<0.250	<0.500
NR 140 PAL*	---	---	---	96		0.5	140	12	10	0.5	160	400
NR 140 ES*	---	---	---	480		5	700	60	100	5	800	2,000

Italics = Exceeds NR 140 Preventative Action Limits (PAL)
Bold = Exceeds NR 140 Enforcement Limits (ES)
* Wisconsin Administrative Code NR 140 dated July 2015
--- No Established Standards
TMB - Trimethybenzene
NT = Not Tested

ATTACHMENT A

Laboratory Test Results

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: 500-121259-1
Client Project/Site: Open Pantry Food Mart 4870

For:
K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Mukesh Jain

Authorized for release by:
12/16/2016 1:47:51 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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.

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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Job ID: 500-121259-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-121259-1

Comments
No additional comments.

Receipt
The samples were received on 12/9/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.3º C.

GC VOA
Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-394157.

Method(s) WI-GRO: pH is 5 for Vial A. MW-02 (500-121259-2) and MW-04 (500-121259-4)

Method(s) WI-GRO: pH is 4 for vial A. MW-01 (500-121259-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Client Sample ID: MW-01 — Lab Sample ID: 500-121259-1

No Detections.

Client Sample ID: MW-02 — Lab Sample ID: 500-121259-2

No Detections.

Client Sample ID: MW-03 — Lab Sample ID: 500-121259-3

No Detections.

Client Sample ID: MW-04 — Lab Sample ID: 500-121259-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.46	J	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-05 — Lab Sample ID: 500-121259-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	10000		25	15	ug/L	50		WDNR	Total/NA
1,3,5-Trimethylbenzene	3200		25	15	ug/L	50		WDNR	Total/NA
Benzene	180		25	18	ug/L	50		WDNR	Total/NA
Ethylbenzene	1200		25	19	ug/L	50		WDNR	Total/NA
Methyl tert-butyl ether	110		25	12	ug/L	50		WDNR	Total/NA
Naphthalene	2000		250	120	ug/L	50		WDNR	Total/NA
Toluene	850		25	17	ug/L	50		WDNR	Total/NA
Xylenes, Total	15000		75	29	ug/L	50		WDNR	Total/NA

Client Sample ID: MW-06 — Lab Sample ID: 500-121259-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4200		25	15	ug/L	50		WDNR	Total/NA
1,3,5-Trimethylbenzene	1200		25	15	ug/L	50		WDNR	Total/NA
Benzene	6400		25	18	ug/L	50		WDNR	Total/NA
Ethylbenzene	2800		25	19	ug/L	50		WDNR	Total/NA
Methyl tert-butyl ether	220		25	12	ug/L	50		WDNR	Total/NA
Naphthalene	1200		250	120	ug/L	50		WDNR	Total/NA
Toluene	3800		25	17	ug/L	50		WDNR	Total/NA
Xylenes, Total	18000		75	29	ug/L	50		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

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: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-121259-1	MW-01	Ground Water	12/06/16 10:00	12/09/16 10:00
500-121259-2	MW-02	Ground Water	12/06/16 10:30	12/09/16 10:00
500-121259-3	MW-03	Ground Water	12/06/16 11:00	12/09/16 10:00
500-121259-4	MW-04	Ground Water	12/06/16 11:30	12/09/16 10:00
500-121259-5	MW-05	Ground Water	12/06/16 12:30	12/09/16 10:00
500-121259-6	MW-06	Ground Water	12/06/16 12:00	12/09/16 10:00

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Client Sample ID: MW-01

Lab Sample ID: 500-121259-1
Date Collected: 12/06/16 10:00
Matrix: Ground Water
Date Received: 12/09/16 10:00

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			12/15/16 00:35	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/15/16 00:35	1
Benzene	<0.36		0.50	0.36	ug/L			12/15/16 00:35	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/15/16 00:35	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/15/16 00:35	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/15/16 00:35	1
Toluene	<0.33		0.50	0.33	ug/L			12/15/16 00:35	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/15/16 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*		*12/15/16 00:35*	*1*

Client Sample ID: MW-02

Lab Sample ID: 500-121259-2
Date Collected: 12/06/16 10:30
Matrix: Ground Water
Date Received: 12/09/16 10:00

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			12/15/16 01:16	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/15/16 01:16	1
Benzene	<0.36		0.50	0.36	ug/L			12/15/16 01:16	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/15/16 01:16	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/15/16 01:16	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/15/16 01:16	1
Toluene	<0.33		0.50	0.33	ug/L			12/15/16 01:16	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/15/16 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*12/15/16 01:16*	*1*

Client Sample ID: MW-03

Lab Sample ID: 500-121259-3
Date Collected: 12/06/16 11:00
Matrix: Ground Water
Date Received: 12/09/16 10:00

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			12/15/16 01:57	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/15/16 01:57	1
Benzene	<0.36		0.50	0.36	ug/L			12/15/16 01:57	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/15/16 01:57	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/15/16 01:57	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/15/16 01:57	1
Toluene	<0.33		0.50	0.33	ug/L			12/15/16 01:57	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/15/16 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*12/15/16 01:57*	*1*

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Client Sample ID: MW-04

Lab Sample ID: 500-121259-4
Date Collected: 12/06/16 11:30
Matrix: Ground Water
Date Received: 12/09/16 10:00

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			12/15/16 02:37	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/15/16 02:37	1
Benzene	**1.6**		0.50	0.36	ug/L			12/15/16 02:37	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/15/16 02:37	1
Methyl tert-butyl ether	**0.46**	**J**	0.50	0.24	ug/L			12/15/16 02:37	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/15/16 02:37	1
Toluene	<0.33		0.50	0.33	ug/L			12/15/16 02:37	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/15/16 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*80 - 120*		*12/15/16 02:37*	*1*

Client Sample ID: MW-05

Lab Sample ID: 500-121259-5
Date Collected: 12/06/16 12:30
Matrix: Ground Water
Date Received: 12/09/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**10000**		25	15	ug/L			12/15/16 04:39	50
1,3,5-Trimethylbenzene	**3200**		25	15	ug/L			12/15/16 04:39	50
Benzene	**180**		25	18	ug/L			12/15/16 04:39	50
Ethylbenzene	**1200**		25	19	ug/L			12/15/16 04:39	50
Methyl tert-butyl ether	**110**		25	12	ug/L			12/15/16 04:39	50
Naphthalene	**2000**		250	120	ug/L			12/15/16 04:39	50
Toluene	**850**		25	17	ug/L			12/15/16 04:39	50
Xylenes, Total	**15000**		75	29	ug/L			12/15/16 04:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*120*		*80 - 120*		*12/15/16 04:39*	*50*

Client Sample ID: MW-06

Lab Sample ID: 500-121259-6
Date Collected: 12/06/16 12:00
Matrix: Ground Water
Date Received: 12/09/16 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**4200**		25	15	ug/L			12/15/16 05:20	50
1,3,5-Trimethylbenzene	**1200**		25	15	ug/L			12/15/16 05:20	50
Benzene	**6400**		25	18	ug/L			12/15/16 05:20	50
Ethylbenzene	**2800**		25	19	ug/L			12/15/16 05:20	50
Methyl tert-butyl ether	**220**		25	12	ug/L			12/15/16 05:20	50
Naphthalene	**1200**		250	120	ug/L			12/15/16 05:20	50
Toluene	**3800**		25	17	ug/L			12/15/16 05:20	50
Xylenes, Total	**18000**		75	29	ug/L			12/15/16 05:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*80 - 120*		*12/15/16 05:20*	*50*

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
CFL	Contains Free Liquid
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: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

GC VOA

Analysis Batch: 394157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-121259-1	MW-01	Total/NA	Ground Water	WDNR	
500-121259-2	MW-02	Total/NA	Ground Water	WDNR	
500-121259-3	MW-03	Total/NA	Ground Water	WDNR	
500-121259-4	MW-04	Total/NA	Ground Water	WDNR	
500-121259-5	MW-05	Total/NA	Ground Water	WDNR	
500-121259-6	MW-06	Total/NA	Ground Water	WDNR	
MB 490-394157/5	Method Blank	Total/NA	Water	WDNR	
LCS 490-394157/2	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-394157/3	Lab Control Sample Dup	Total/NA	Water	WDNR	

Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**TFT (80-120)**							
500-121259-1	MW-01	96							
500-121259-2	MW-02	97							
500-121259-3	MW-03	97							
500-121259-4	MW-04	102							
500-121259-5	MW-05	120							
500-121259-6	MW-06	102							

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)**							
LCS 490-394157/2	Lab Control Sample	104							
LCSD 490-394157/3	Lab Control Sample Dup	102							
MB 490-394157/5	Method Blank	98							

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

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

Lab Sample ID: MB 490-394157/5
Matrix: Water
Analysis Batch: 394157

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			12/14/16 13:43	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			12/14/16 13:43	1
Benzene	<0.36		0.50	0.36	ug/L			12/14/16 13:43	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			12/14/16 13:43	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			12/14/16 13:43	1
Naphthalene	<2.4		5.0	2.4	ug/L			12/14/16 13:43	1
Toluene	<0.33		0.50	0.33	ug/L			12/14/16 13:43	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			12/14/16 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*		*12/14/16 13:43*	*1*

Lab Sample ID: LCS 490-394157/2
Matrix: Water
Analysis Batch: 394157

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	20.0	20.9		ug/L		105	60 - 131
1,3,5-Trimethylbenzene	20.0	21.1		ug/L		105	70 - 130
Benzene	20.0	20.2		ug/L		101	69 - 129
Ethylbenzene	20.0	20.7		ug/L		103	70 - 130
Methyl tert-butyl ether	20.0	20.4		ug/L		102	57 - 138
Naphthalene	20.0	22.0		ug/L		110	69 - 133
Toluene	20.0	20.4		ug/L		102	66 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*80 - 120*

Lab Sample ID: LCSD 490-394157/3
Matrix: Water
Analysis Batch: 394157

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	20.0	21.3		ug/L		106	60 - 131	2	43
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		107	70 - 130	2	20
Benzene	20.0	20.3		ug/L		101	69 - 129	0	33
Ethylbenzene	20.0	21.0		ug/L		105	70 - 130	1	35
Methyl tert-butyl ether	20.0	19.9		ug/L		99	57 - 138	3	40
Naphthalene	20.0	22.6		ug/L		113	69 - 133	3	48
Toluene	20.0	20.5		ug/L		103	66 - 127	1	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*80 - 120*

Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Client Sample ID: MW-01
Date Collected: 12/06/16 10:00
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	394157	12/15/16 00:35	A1B	TAL NSH

Client Sample ID: MW-02
Date Collected: 12/06/16 10:30
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	394157	12/15/16 01:16	A1B	TAL NSH

Client Sample ID: MW-03
Date Collected: 12/06/16 11:00
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	394157	12/15/16 01:57	A1B	TAL NSH

Client Sample ID: MW-04
Date Collected: 12/06/16 11:30
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	394157	12/15/16 02:37	A1B	TAL NSH

Client Sample ID: MW-05
Date Collected: 12/06/16 12:30
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		50	394157	12/15/16 04:39	A1B	TAL NSH

Client Sample ID: MW-06
Date Collected: 12/06/16 12:00
Date Received: 12/09/16 10:00

Lab Sample ID: 500-121259-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		50	394157	12/15/16 05:20	A1B	TAL NSH

Laboratory References:

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

Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: Open Pantry Food Mart 4870

TestAmerica Job ID: 500-121259-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17

500-121259

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

(262) 821-1171 Fax (262) 821-1174

State of Wisconsin
Department of Natural Resources

CHAIN OF CUSTODY RECORD
LUST PROGRAM
Form 4400-151

500-121259 COC

Note: This form is required by the Department of Natural Resources for LUST sites in compliance with ch. NR. 500-540, NR 158 and NR 419, Wis. Adm. Code

Sample Collector(s)	Title	Telephone # (including Area Code)	Report To
Mukesh Jain	Project Engineer	(262) 821-1171	Mukesh Jain

Property Owner	Property Address	Telephone # (including Area Code)	Project #
Open Pantry Food Mart of WI	2216 University Avenue, Madison, WI		4870

I hereby certify that I received, properly, and disposed of these samples as noted below:

Lab. Name: Test America

Relinquished By (Signature)	Date/Time	Received By (Signature)
Mukesh Kumar Jain	12-8-16 11:10	[signature]
[signature]	12-8-16 1520	

Temperature of temperature blank: _____

If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice". If all of the ice was melted, the temperature of the melt may be substituted for the temperature blank.

	Field I.D. Number	Date Collected	Time Collected	Samples Type(1)	Samples Device	Location/Description (see footnote2)	PVOCs	Naphthalene									# / Type of Container HNO_3	HCl	H_2SO_4	Unpres.	Lab. I.D. No.	Sample Condition Cracked /Broken	Impro. Sealed	Good Cond.	Other Comment
1	4870	12/6/16	10:00 am	GW	Bailer	MW-01	✓	✓										3							
2	4870	12/6/16	10:30 am	GW	Bailer	MW-02	✓	✓										3							
3	4870	12/6/16	11:00 am	GW	Bailer	MW-03	✓	✓										3							
4	4870	12/6/16	11:30 am	GW	Bailer	MW-04	✓	✓										3							
5	4870	12/6/16	12:30 pm	GW	Bailer	MW-05	✓	✓										3							
6	4870	12/6/16	12:00 pm	GW	Bailer	MW-06	✓	✓										3							

1. Specify Groundwater (GW), Surface Water (SW), Soil (S), Sludge (SL), Air (A), etc.
2. Sample description must clearly correlate the sample I.D. to the sampling location.

DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES

Disposition of unused portion of sample
Laboratory should:

- ☐ Dispose
- ☐ Retain for _____ day
- ☐ Return
- ☐ Other

DEPARTMENT USE ONLY

-0.3

Split samples: Offered? ☐ Yes ☐ No
Accepted? ☐ Yes ☐ No

Accepted By: [signature] Signature TA 12/09/16 1000

ORIGIN ID:RRLA
SHIPPING
TESTAMERICA
4125 N 124TH ST

BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 08DEC16
ACTWGT: 30.9 LB
CAD: 525155/CAFE2915

BILL RECIPIENT

TO SAMPLE RECIEPT
TESTAMERICA LABS
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-6200
INV:
PO:
REF:
DEPT:

FedEx
Express
E

TRK# 0201 7125 4936 8285

FRI - 09 DEC 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL - US ORD

Part # 1561480V-434 RIT2 APV EXP 08/17

500-121259 Waybill

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-121259 Chain of Custody

Cooler Received/Opened On 12/10/2016 @ 09:50

Time Samples Removed From Cooler 1130 Time Samples Placed In Storage 1236 (2 Hour Window)

1. Tracking # C054 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 31470368 pH Strip Lot HC682847 Chlorine Strip Lot 0811161G

2. 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: one front

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) DA

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)? HKG 12/10/16 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) HKG

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) HKG

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) HKG

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

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

BIS = Broken in shipment

End of Form

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

Chain of Custody Record

Loc: 500
121259

TestAmerica — LEADER IN ENVIRONMENTAL TESTING

12/16/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	1306.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-121259-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 12/19/2016		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: Open Pantry Food Mart 4870	Project #: 50006762		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-01 (500-121259-1)	12/6/16	10:00 Central		Water			X	3	
MW-02 (500-121259-2)	12/6/16	10:30 Central		Water			X	3	
MW-03 (500-121259-3)	12/6/16	11:00 Central		Water			X	3	
MW-04 (500-121259-4)	12/6/16	11:30 Central		Water			X	3	
MW-05 (500-121259-5)	12/6/16	12:30 Central		Water			X	3	
MW-06 (500-121259-6)	12/6/16	12:00 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*			***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*			
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 12/09/16 @ 1600	Company TA	Received by: 1.S	Date/Time: 12/10/16 0950	Company TAN	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-121259-1

Login Number: 121259
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	-0.3c
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 (excluding tests with immediate HTs)	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 <6mm (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: K. Singh & Associates, Inc

Job Number: 500-121259-1

Login Number: 121259
List Number: 2
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville
List Creation: 12/10/16 11:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 (excluding tests with immediate HTs)	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B

MANN-KENDALL TABLES

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name : Erickson Freedom Station, 2216 University Avenue, Madison, W | BRRTS No. = 03-13-284909 | Well Number = MW-05

Event Number	Sampling Date (most recent last)	Benzene Concentration (leave blank if no data)	Napthalene Concentration (leave blank if no data)	Toluene Concentration (leave blank if no data)	MTBE Concentration (leave blank if no data)	Total TMB Concentration (leave blank if no data)	Ethylbenzene Concentration (leave blank if no data)
	Compound ->	Benzene	Napthalene	Toluene	MTBE	Total TMB	Ethylbenzene
1	18-Dec-12	740.00	1,400.00	7,400.00	170.00	5,900.00	3,100.00
2	18-Jun-14	650.00	1,300.00	12,000.00	70.00	12,300.00	3,000.00
3	2-Oct-14	280.00	1,300.00	3,300.00	83.00	3,600.00	1,700.00
4	23-Dec-14	350.00	1,900.00	3,900.00	57.00	5,500.00	2,400.00
5	30-Aug-16	91.00	2,500.00	1,100.00	100.00	6,100.00	1,100.00
6	6-Dec-16	180.00	2,000.00	850.00	110.00	13,200.00	1,200.00
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	-11.0	8.0	-11.0	1.0	5.0	-11.0
	Number of Rounds (n) =	6	6	6	6	6	6
	Average =	381.83	1733.33	4758.33	98.33	7766.67	2083.33
	Standard Deviation =	259.577	484.424	4264.788	40.053	3970.726	879.583
	Coefficient of Variation(CV)=	0.680	0.279	0.896	0.407	0.511	0.422
Error Check, Blank if No Errors Detected							
Trend ≥ 80% Confidence Level		DECREASING	INCREASING	DECREASING	No Trend	No Trend	DECREASING
Trend ≥ 90% Confidence Level		DECREASING	INCREASING	DECREASING	No Trend	No Trend	DECREASING
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	CV <= 1 STABLE	CV <= 1 STABLE	NA

Data Entry By = M.K.J. | Date = 6-Jan-17 | Checked By = P.N.S.

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

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Site Name : Erickson Freedom Station, 2216 University Avenue, Madison, W | BRRTS No. = 03-13-284909 | Well Number = MW-06

Event Number	Sampling Date (most recent last)	Benzene Concentration (leave blank if no data)	Napthalene Concentration (leave blank if no data)	Toluene Concentration (leave blank if no data)	MTBE Concentration (leave blank if no data)	Total TMB Concentration (leave blank if no data)	Ethylbenzene Concentration (leave blank if no data)
	Compound ->	Benzene	Napthalene	Toluene	MTBE	Total TMB	Ethylbenzene
1	7-Jun-12	3,460.00	1,840.00	9,050.00	210.00	4,372.00	3,440.00
2	18-Jun-14	4,800.00	2,100.00	16,000.00	280.00	11,700.00	4,900.00
3	2-Oct-14	5,300.00	1,500.00	8,900.00	94.00	4,350.00	2,600.00
4	23-Dec-14	4,000.00	7,700.00	7,400.00	140.00	23,300.00	4,800.00
5	30-Aug-16	5,800.00	1,400.00	3,400.00	100.00	4,000.00	2,300.00
6	6-Dec-16	6,400.00	1,200.00	3,800.00	220.00	5,400.00	2,800.00
7							
8							
9							
10							
	Mann Kendall Statistic (S) =	11.0	-7.0	-11.0	-1.0	-1.0	-5.0
	Number of Rounds (n) =	6	6	6	6	6	6
	Average =	4960.00	2623.33	8091.67	174.00	8853.67	3473.33
	Standard Deviation =	1103.812	2507.761	4583.058	74.404	7650.522	1130.428
	Coefficient of Variation(CV)=	0.223	0.956	0.566	0.428	0.864	0.325

Error Check, Blank if No Errors Detected

Trend ≥ 80% Confidence Level	INCREASING	DECREASING	DECREASING	No Trend	No Trend	No Trend
Trend ≥ 90% Confidence Level	INCREASING	No Trend	DECREASING	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level	NA	NA	NA	CV <= 1 STABLE	CV <= 1 STABLE	CV <= 1 STABLE

Data Entry By = M.K.J. | Date = 6-Jan-17 | Checked By = P.N.S.