From:	Matt Dahlem
To:	DuFresne, Kristin I - DNR
Cc:	Tim Maertz
Subject:	RE: Groundwater Quarterly Monitoring (Former One Hour Martinizing)
Date:	Monday, December 14, 2015 2:04:00 PM
Attachments:	DFT FIG - GW CHEM.pdf DFT FIG - GW ELEV.pdf DFT TBL A.1 - GW CHEM.pdf DFT TBL A.6 - GW ELEV.pdf

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Kristin, see attached. This is the gw info from our post excavation work. Our next quarterly would be mid-February if you want to go quarterly on this. We have funding for 1 more round of post excavation sampling. Let me know if you want it in mid-Feb or May (which would be 6-months from November 2015 sampling).

Thanks much!!
Matt

MATT DAHLEM, P.G. | Senior Project Hydrogeologist
Fehr Graham - Engineering & Environmental

1237 Pilgrim Road
Plymouth, Wisconsin 53073
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From: Matt Dahlem
Sent: Friday, November 06, 2015 12:49 PM
To: 'DuFresne, Kristin I - DNR' <Kristin.DuFresne@wisconsin.gov>
Subject: RE: Groundwater Quarterly Monitoring (Former One Hour Martinizing)

Will do, we will drum the purge water Kristin.

Have a great weekend!
Matt

MATT DAHLEM, P.G. | Senior Project Hydrogeologist
Fehr Graham - Engineering & Environmental

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Plymouth, Wisconsin 53073
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www.fehr-graham.com

From: DuFresne, Kristin I - DNR [mailto:Kristin.DuFresne@wisconsin.gov]
Sent: Friday, November 06, 2015 12:15 PM
To: Matt Dahlem <mdahlem@fehr-graham.com>
Cc: DuFresne, Kristin I - DNR <Kristin.DuFresne@wisconsin.gov>
Subject: RE: Groundwater Quarterly Monitoring (Former One Hour Martinizing)

Matt – Thank you for the update. Please drum the purge water so it can be properly disposed. Thanks!

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Kristin DuFresne
Phone: (920) 662-5443
Kristin.dufresne@wisconsin.gov

From: Matt Dahlem [mailto:mdahlem@fehr-graham.com]
Sent: Friday, November 06, 2015 11:32 AM
To: DuFresne, Kristin I - DNR
Cc: Garritt R. Bader; Tim Maertz; Brian Youngwirth; Justin Schuenemann
Subject: Groundwater Quarterly Monitoring (Former One Hour Martinizing)

Update for you Kristin,

We are planning on sampling our groundwater monitoring wells MW-1, MW-2, MW-4 through MW-9, piezometer PZ-1 and the sump that replaced MW-3 (10 wells total). We will also sample General Engineering 1-inch temporary wells TW-4 and TW-5. Sampling will be performed using standard sample procedures, with individually dedicated bailers for sampling. A YSI meter will also be used to gather field parameters for natural attenuation parameter data.

Question Kristin: we are planning to return the purge water to the site, is this ok with you? This is our plan unless you want the water to be drummed.

All samples will be sampled for VOCs.

We plan on doing this work November 12-13.

We are calling in Diggers again to mark any remaining utilities in order to map anything that has not been mapped already. We will also recon the remaining catch basins and inspect them on depths of influent/effluent piping to see which direction those are going, even though all utilities have already been capped and properly decommissioned as required by code.

Brian, can you get me a CAD map (PDF) of your well location map along with a gw chem map and gw flow map if you got them? That way I can update our maps with the TW-4 and TW-5 data more accurately.

This is our scope for next week, please contact me with any questions or descrepencies. Otherwise we will proceed as planned.

Thanks a bunch!

Matt

MATT DAHLEM, P.G. I Senior Project Hydrogeologist
Fehr Graham – Engineering & Environmental

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LEGEND

Dry Cleaning Machine Location

MW-5
Monitoring Well

Sump

Excavation Limits

Z=6' Excavation Depth

PCE Tetrachloroethene (ug/l)
TCE Trichloroethene (ug/l)
cis cis-Dichloroethene (ug/l)

ITALICS+ Exceeds NR140 Preventive Action Limit
BOLD ++ Exceeds NR140 Enforcement Standard
ND No Detectable Compounds

Estimated area of groundwater PCE/TCE contamination above Enforcement Standard.

MW-5
TCE ND
PCE ND
cis ND

MW-4
TCE *1.4*+
PCE ND
cis ND

MW-6
TCE ND
PCE ND
cis ND

SMW-3
TCE *3,100*++
PCE *504*++
cis *86.5*++

MW-9
TCE *0.94*+
PCE *1.7*+
cis ND

GEC TW-5
TCE ND
PCE ND
cis ND

MW-7
TCE *16.5*++
PCE 0.49
cis ND

GEC TW-4
TCE ND
PCE ND
cis ND

MW-1
TCE *6.8*++
PCE ND
cis ND

PZ-1
TCE ND
PCE ND
cis ND

MW-2
TCE ND
PCE ND
cis ND

MW-8
TCE ND
PCE ND
cis ND

Area A Z=6'
Area B Z=6'
Area C Z=6'
Area D Z=6'

gravel
asphalt
grass
sidewalk
drain
B/R
office
Main St. / Hwy. 29

N

10 0 10 20
SCALE

One Hour Martinizing
1923 Main Street
Green Bay, WI

TITLE: Groundwater Flow & Contour Nov. 12, 2015			FEHR GRAHAM ENGINEERING & ENVIRONMENTAL
SITE: One Hour Martinizing 1923 Main St. Green Bay, WI 54302			
SCALE:	ATS/FG PROJECT NUMBER: RIC-2012-01 14-1138 BRRTS# 02-05-217276	Date: 8/15/14	DWG #: F:/BaseMap - Rice OHM - 14-1138.skf
REV: DATE:	DESCRIPTION: APPVD.:	DRAWN BY: MKH	FIGURE

A.1.I
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	HA-1	MW-1												PZ-1										
Date				6/8/99	6/7/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	10/15/10	12/12/12	11/15/15	6/7/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15
Groundwater Elevation				NA	93.78	92.00	94.63	94.56	93.54	92.77	94.51	95.18	94.63	--	93.92	95.39	86.51	92.25	93.95	93.99	93.23	92.25	94.08	94.26	93.86	91.35	94.29
Notes														Dup												
Benzene	(ug/L)	*0.5*	**5**	<0.94	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.97	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50
Toluene	(ug/L)	*160*	**800**	<0.55	0.14P	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<2.85	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	--	--	--	--	<1.8	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	--	--	--	--	<0.83	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.41	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<0.89	<2.5	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	--	--	<0.61	<0.17	--	--	--	--	--	--	--	--	--	<0.61	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.97	<0.50	--	--	--	--	--	--	--	--	--	<0.97	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	--	--	--	--	<0.83	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<4.05	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	*84.7*	*71.9*	*20*	*16*	*21*	*22*	*17*	*16*	*16*	*19.9*	*17*	*6.5*	*6.8*	<0.34	<0.34	<0.45	<0.45	*4.8*	*15*	<0.45	<0.45	<0.45	<0.45	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	*1.79P*	0.29P	<0.21	<0.48	<0.48	*0.52*	*0.60*	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.21	<0.21	<0.48	<0.48	*0.56*	*1.1*	<0.48	<0.48	<0.48	<0.48	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.93	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	--	--	--	--	<0.89	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.70	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	--	--	--	--	<0.43	<0.23

Notes:
NS = No standard established
NA = Not analyzed for parameter
-- = Not Reported
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1.I
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-2											MW-3											SMW-3
Date				6/7/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	6/7/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	11/12/15
Groundwater Elevation				93.50	91.53	93.55	93.29	92.66	91.64	93.40	93.88	93.51	92.34	93.71	95.64	93.35	95.72	95.51	94.55	93.19	95.23	96.08	95.10	93.37	--	NA
Notes																										
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<31.3	<0.19	<10	<10	<41	<82	<20	<41	<2.0	<102	REMOVED DURING 2015 EXCAVATION	<20.0
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<32.3	<0.19	<14	<14	<54	<110	<27	<54	<2.7	<135		<20.0
Toluene	(ug/L)	*160*	**800**	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	1.6	<0.50	<18.3	0.75	<17	<17	<67	<130	<34	<67	<3.4	<168		<20.0
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<95	2.2	<66	<66	<263	<530	<132	<263	<13.2	<658		<60.0
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	--	--	--	--	<450		<40.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	--	--	--	--	<208		<20.0
Naphthalene	(ug/L)	*10*	**100**	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	<13.7	<0.082	<18	<18	<74	<150	<37	<74	<4.4	<222		<100
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	<0.61	<0.17	--	--	--	--	--	--	--	--	--	<152		<7.0
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.97	<0.50	--	--	--	--	--	--	--	--	--	<242		<20.0
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	--	--	--	--	<208		<20.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<135	5.4	<45	<45	<180	<360	<90	<180	<9.0	<450		<40.0
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.34	<0.45	<0.45	*9.8*	*15*	<0.45	<0.45	<0.48	<0.45	<0.50	*2,600*	*76*	*4,400*	*2,800*	*10,000*	*12,000*	*4,700*	*5,200*	*602*	*13,700*		*3,100*
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.21	<0.48	<0.48	*0.8*	*1.2*	<0.48	<0.48	<0.48	<0.48	<0.33	<35.3	*89*	*190*	*200*	*450*	*570*	*360*	*410*	*191*	*1,500*		*504*
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<31	1.6	<21	<21	<83	<170	<42	<83	*34.4*	<208		*86.5*
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	--	--	--	--	<222		<10.3
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<23.3	*1.2*	<4.5	<4.5	<18	<36	<9.0	<18	<0.9	<45.0		<7.0
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	--	--	--	--	<108		<9.3

Notes:
NS = No standard established
NA = Not analyzed for parameter
-- = Not Reported
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1.I
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-4								MW-5							MW-6						
Date				6/7/99	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15
Groundwater Elevation				96.43	94.02	96.72	95.19	95.92	95.99	94.83	95.05	94.09	96.79	95.28	95.86	95.96	93.85	93.92	92.71	95.05	93.91	94.27	94.26	92.76	92.98
Notes																									
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	<1.8	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.08	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	<0.17	--	--	--	--	--	<0.61	<0.17	--	--	--	--	--	<0.61	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	<0.97	<0.50	--	--	--	--	--	<0.97	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.34	*1.9*	*2.0*	*3.0*	<0.45	<0.45	*1.4*	<0.34	*1.9*	<0.45	<0.45	<0.45	<0.45	<0.50	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	<0.89	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	<0.43	<0.23

Notes:
NS = No standard established
NA = Not analyzed for parameter
-- = Not Reported
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1.I
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-7							MW-8							MW-9							GES TW-4		GES TW-5		Trip Blank
Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	8/28/01	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	9/24/15	11/12/15		11/12/15	11/12/15
Groundwater Elevation				91.22	94.12	92.92	93.72	93.64	93.07	94.25	92.50	94.88	93.65	94.84	95.02	94.13	95.79	NA	93.12	92.19	93.43	91.40	90.69	92.86	NA	NA		NA	NA
Notes																													
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.44	<0.50	<0.44	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.71	<0.50	<0.71	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.44	<0.50	<0.44	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<3.1	<1.5	<3.1	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	<1.8	<1.0	--	--	--	--	--	<1.8	<1.0	<2.2	<1.0	<2.2	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50	<0.9	<0.50	<0.9	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	--	<2.5	--	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17	--	--	--	--	--	<0.61	<0.17	--	--	--	--	--	<0.61	<0.17	<1.1	<0.17	<1.1	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50	--	--	--	--	--	<0.97	<0.50	--	--	--	--	--	<0.97	<0.50	<1.6	<0.50	<1.6	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50	--	--	--	--	--	<0.83	<0.50	<1.5	<0.50	<1.5	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<3.1	<1.0	<3.1	<1.0	<1.0
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.45	*30*	<0.45	*1.3*	*2*	*16.5*	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	<0.50	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	*0.94 J*	<0.49	<0.50	<0.49	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.48	*2.0*	<0.48	*0.78J*	<0.48	0.49 J	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.098	*0.55*	*2.6*	*0.7*	<0.48	<0.48	*1.7*	<0.47	<0.33	<0.47	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.83	<0.83	<0.83	2.2	<0.83	<0.26	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.19	1.2	3.4	<0.83	<0.83	<0.83	<0.26	<0.45	<0.26	<0.45	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	<0.89	<0.26	--	--	--	--	--	<0.89	<0.26	--	<0.26	--	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	--	<0.18	--	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	<0.43	<0.23	--	--	--	--	--	<0.43	<0.23	--	<0.23	--	<0.23	<0.23

Notes:
NS = No standard established
NA = Not analyzed for parameter
-- = Not Reported
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

LEGEND

Dry Cleaning Machine Location

MW-5
Monitoring Well

Sump

Excavation Limits

Z=6' Excavation Depth

Groundwater Flow Direction

91.35 Groundwater Elevation (ft. msl)

** Not used in contouring

MW-5
93.92

MW-6
92.98

MW-4
95.05

MW-9
92.86

MW-7
94.25

MW-1
95.39

PZ-1
94.29**

MW-2
93.71

MW-8
95.79

GEC
TW-5

GEC
TW-4

SMW-3

Area A
Z=6'

Area B
Z=6'

Area C
Z=6'

Area D
Z=6'

93

93.5

94

94.5

95

95.5

gravel

asphalt

grass

sidewalk

drain

B/R

office

Main St. / Hwy. 29

One Hour Martinizing
1923 Main Street
Green Bay, WI

N

10 0 10 20
SCALE

TITLE: Groundwater Flow & Contour Nov. 12, 2015				FEHR GRAHAM ENGINEERING & ENVIRONMENTAL
SITE: One Hour Martinizing 1923 Main St. Green Bay, WI 54302				
SCALE:	ATS/FG PROJECT NUMBER: RIC-2012-01 14-1138 BRRTS# 02-05-217276		Date: 8/15/14	DWG #: F:/BaseMap - Rice OHM - 14-1138.skf
REV: DATE:	DESCRIPTION:	APPVD.:	DRAWN BY: MKH	FIGURE

TABLE A.6
Water Level Elevations
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Well Identification	MW-1	PZ-1	MW-2	MW-3	SMW-3	MW-4	MW-5
Top of Casing Elevation (ft MSL)	98.61	99.15	98.31	98.29		99.27	98.92
Ground Surface Elevation (ft. MSL)	99.01	99.51	98.63	98.71	0.00	99.71	99.19
Total Well Depth	12.43	22.23	12.70	12.89	15.30	12.30	12.64
Stickup	-0.40	-0.36	-0.32	-0.42		-0.44	-0.27
Screened Elevation (ft MSL)							

Well Identification	MW-6	MW-7	MW-8	MW-9	GEC TW-4	GEC TW-5
Top of Casing Elevation (ft MSL)	97.65	97.83	98.91	97.43		
Ground Surface Elevation (ft. MSL)	97.93	98.13	99.29	97.77	0.00	0.00
Total Well Depth	12.55	12.26	12.54	13.50	12.88	12.68
Stickup	-0.28	-0.30	-0.38	-0.34	0.00	
Screened Elevation (ft MSL)						

	MW-1			PZ-1			MW-2		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999	4.83	5.23	93.78	12.64	13.00	86.51	4.81	5.13	93.50
1/3/2000	6.61	7.01	92.00	6.90	7.26	92.25	6.78	7.10	91.53
4/22/2004	3.98	4.38	94.63	5.20	5.56	93.95	4.76	5.08	93.55
7/22/2004	4.05	4.45	94.56	5.16	5.52	93.99	5.02	5.34	93.29
10/27/2004	5.07	5.47	93.54	5.92	6.28	93.23	5.65	5.97	92.66
1/25/2005	5.84	6.24	92.77	6.90	7.26	92.25	6.67	6.99	91.64
10/31/2006	4.10	4.50	94.51	5.07	5.43	94.08	4.91	5.23	93.40
4/30/2007	3.43	3.83	95.18	4.89	5.25	94.26	4.43	4.75	93.88
10/15/2010	3.98	4.38	94.63	5.29	5.65	93.86	4.80	5.12	93.51
12/12/2012	4.69	5.09	93.92	7.80	8.16	91.35	5.97	6.29	92.34
11/12/2015	3.22	3.62	95.39	4.86	5.22	94.29	4.60	4.92	93.71

	MW-3			SMW-3			MW-4		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999	2.65	3.07	95.64		Not Installed		2.84	3.28	96.43
1/3/2000	4.94	5.36	93.35		Not Installed		5.25	5.69	94.02
4/22/2004	2.57	2.99	95.72		Not Installed		2.55	2.99	96.72
7/22/2004	2.78	3.20	95.51		Not Installed			No Data	
10/27/2004	3.74	4.16	94.55		Not Installed		4.08	4.52	95.19
1/25/2005	5.10	5.52	93.19		Not Installed			No Data	
10/31/2006	3.06	3.48	95.23		Not Installed		3.35	3.79	95.92
4/30/2007	2.21	2.63	96.08		Not Installed			No Data	
10/15/2010	3.19	3.61	95.10		Not Installed		3.28	3.72	95.99
12/12/2012	4.92	5.34	93.37		Not Installed		4.44	4.88	94.83
11/12/2015	Abandoned 2015 Excavation			5.68	5.68	-5.68	4.22	4.66	95.05

TABLE A.6
Water Level Elevations
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

	MW-5			MW-6			MW-7		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999		Not Installed			Not Installed			Not Installed	
1/3/2000	4.83	5.10	94.09	4.94	5.22	92.71	6.61	6.91	91.22
4/22/2004	2.13	2.40	96.79	2.60	2.88	95.05	3.71	4.01	94.12
7/22/2004		No Data			No Data			No Data	
10/27/2004	3.64	3.91	95.28	3.74	4.02	93.91	4.91	5.21	92.92
1/25/2005		No Data			No Data			No Data	
10/31/2006	3.06	3.33	95.86	3.38	3.66	94.27	4.11	4.41	93.72
4/30/2007		No Data			No Data			No Data	
10/15/2010	2.96	3.23	95.96	3.39	3.67	94.26	4.19	4.49	93.64
12/12/2012	5.07	5.34	93.85	4.89	5.17	92.76	4.76	5.06	93.07
11/12/2015	5.00	5.27	93.92	4.67	4.95	92.98	3.58	3.88	94.25

	MW-8			MW-9			GES TW-4		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999		Not Installed			Not Installed			No Data	
1/3/2000	6.41	6.79	92.50		Not Installed			No Data	
4/22/2004	4.03	4.41	94.88	4.31	4.65	93.12		No Data	
7/22/2004		No Data			No Data			No Data	
10/27/2004	5.26	5.64	93.65	5.24	5.58	92.19		No Data	
1/25/2005		No Data			No Data			No Data	
10/31/2006	4.07	4.45	94.84	4.00	4.34	93.43		No Data	
4/30/2007		No Data			No Data			No Data	
10/15/2010	3.89	4.27	95.02	6.03	6.37	91.40		No Data	
12/12/2012	4.78	5.16	94.13	6.74	7.08	90.69		No Data	
11/12/2015	3.12	3.50	95.79	4.57	4.91	92.86	4.03	4.03	-4.03

	GES TW-5		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)
11/12/2015	3.77	3.77	-3.77

NOTES:
ft MSL - Feet below Mean Sea Level