CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: May 2, 2001 FILE REF: Montello Lodge

TO: Bruce Urben-NER RR

FROM: Kevin McKnight-OSH

SUBJECT: Request for State Funded Response Moneys

Map and groundwater sample results are attached.

Background: High levels of chlorinated compounds were found in groundwater samples taken during the Freitag & Sons, Inc. LUST investigation in Nov. 1997. Potential sources for the contamination include the subject site which had a former machine shop (removed >20ys ago) and a former dry cleaner/laundromat directly adjacent to the Freitag & Sons site. Due to the contaminant distribution found in 1997 the Department requested Freitag & Sons to perform additional soil and groundwater sampling to determine if they were the source of the contamination. In Jan. 2001 groundwater sampling showed continued high concentrations of chlorinated compounds including PCE and TCE in the well directly adjacent to the former dry cleaner/laundromat.

The local Masonic Lodge owns the former laundromat/dry cleaner building. The Lodge was contacted and information regarding the past uses of the building requested. According to information the Department received from the Lodge and one former operator of the dry cleaner, the site has had laundry service with dry cleaning off and on from 1959 to around 1989. The laundromat closed in 1996. The latest operator Mr. Lyle Heiling wrote that all the dry cleaning equipment was removed in 1989 and that no spill occurred while he operated the equipment (~1983-1989) and that no chemicals were purchased or disposed of after 1989.

The Department on April 10, 2001 made an onsite inspection of the Lodge property. The Lodge building was built in the early 1900's and consists of a stone foundation with a dirt floor. The building does not have a basement but does have a ~3.5foot crawlspace.

Proposal: I am requesting funds to perform a limited PRP investigation for chlorinated solvents on the Lodge Property. Mr. Don Roidt, the Departments contact at the Lodge, has indicated the Lodge does not have the funds to perform the investigation but would allow the Department access provided they do not get the bill. I have begun discussions with Mark Putra regarding ability to pay.

The proposed investigation would involve two parts, the first would be collection of soil and groundwater samples from the crawl space under the location of the dry cleaning machine. The second part would be geoprobe soil and groundwater sampling on Lodge property upgradient of the former equipment. Total cost of the proposed work is estimated at $4000-$6000.

Printed on Recycled Paper

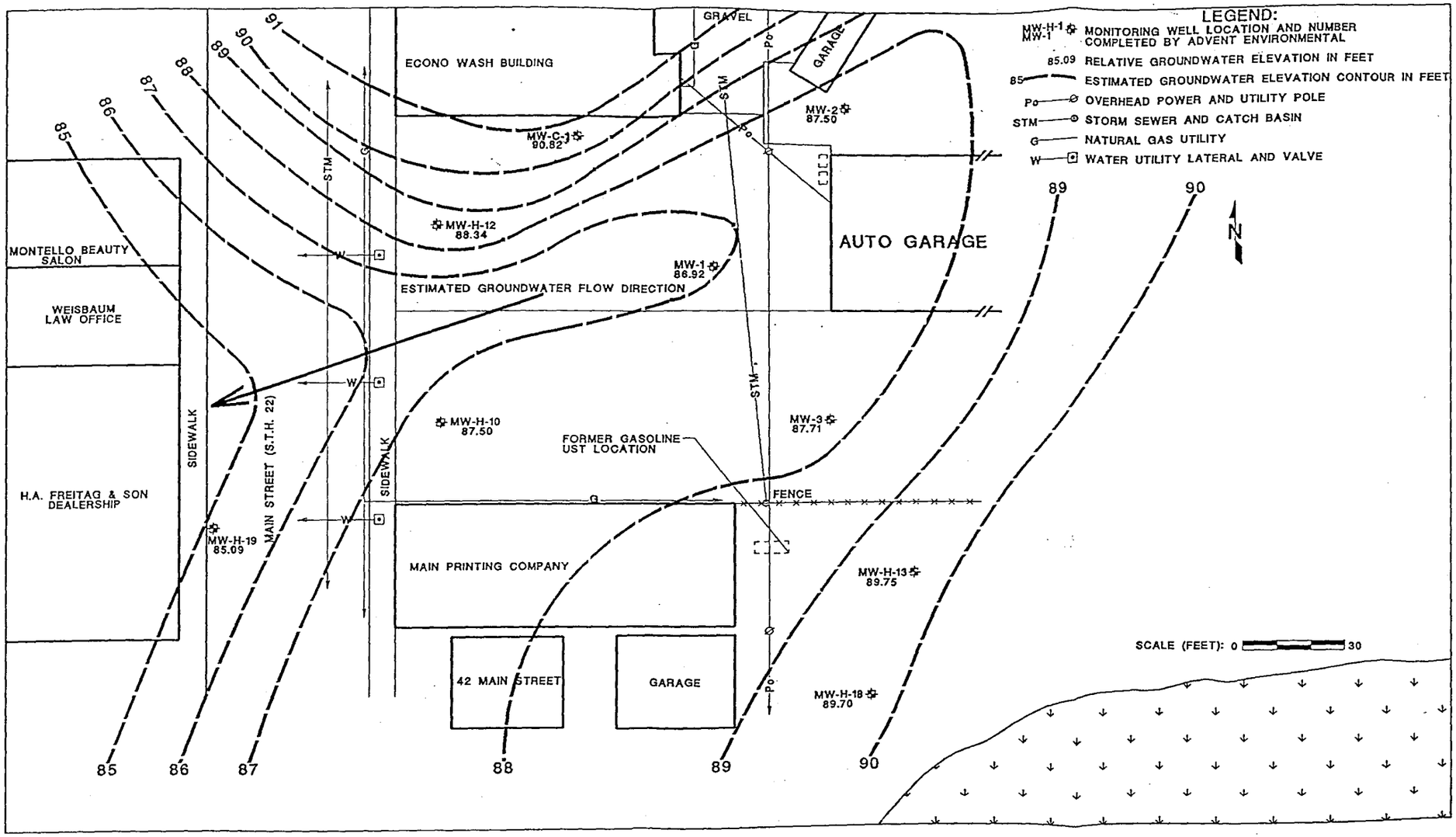

FIGURE 1 RELATIVE GROUNDWATER ELEVATION (7/13/99)
H.A. FREITAG
MONTELLO, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
DATE: 12/9/99
DRAWING #97289.03F

TABLE 1 (page 2 of 9)
ANALYTICAL RESULTS - GROUNDWATER
H. A. FREITAG & SON CHLORINATED SITE

Sample	FC-1	W-C-1	NR 140	
Monitor Well	MW-C-1	MW-C-1		
Date Collected	11/24/97	1/17/01	Standards	
ANALYTE			ES	PAL
VOCs (ppb)				
Benzene	<8.2	0.572	5	0.5
n-Butlybenzene	<6.2	<0.5	---	---
1,2-Dichloroethane	<4.8	**0.628**	5	0.5
1,1-Dichloroethene	<5.6	2.34	850	85
cis-1,2-dichloroethene	**2,000**	**2,110**	70	7
trans-1,2-dichloroethene	<5.0	<100	100	20
Ethylbenzene	<4.6	<0.5	700	140
Isopropylbenzene	<5.4	<0.5	---	---
p-Isopropyltoluene	<4.4	<0.5	---	---
Methyl-tert-butyl-ether	<11	<0.5	60	12
Naphthalene	<13	<2.0	40	8
Tetrachloroethene	<5.4	**1,180**	5	0.5
Trichloroethene	<4.0	**2,980**	5	0.5
n-propylbenzene	<5.4	<0.5	---	---
Toluene	<5.6	1.2	1,000	200
1,2,4-Trimethylbenzene	<6.0	<1.0	---	---
1,3,5-Trimethylbenzene	<5.0	<1.0	---	---
Vinyl Chloride	<4.6	**2.94**	0.2	0.02
Xylene (total)	<5.6	<0.5	10,000	1,000

Bold values indicate concentrations exceeding the
the NR 140 preventative action limit (PAL) for Groundwater Quality.
Shaded boxes indicate concentrations exceeding the
NR 140 enforcement standard (ES) for Groundwater Quality.
ND = Not Detected
--- Not applicable

TABLE 1 (page 5 of 9)
ANALYTICAL RESULTS - GROUNDWATER
H. A. FREITAG & SON CHLORINATED SITE

Sample	W-10	W-10	W-10	W-10	W-10	W-10	W-10	W-10	W-10	W-10	NR 140	
Monitor Well	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10	MW-H-10		
Date Collected	6/10/96	11/24/97	2/24/98	5/28/98	8/20/98	1/21/99	4/15/99	7/13/99	10/12/99	1/17/01	Standards	
ANALYTE											ES	PAL
GROs (ppb)	500	610	930	680	690	530	1500	560	970	---	---	---
Lead (ppm)	ND	---	---	---	---	---	---	---	---	---	0.015	0.0015
Iron (ppm)	---	**9.4**	**5.3**	**9.5**	**11.0**	---	---	---	---	---	0.3	0.15
Manganese (ppm)	---	**2.3**	**2**	**1.8**	**2.0**	---	---	---	---	---	0.05	0.025
Nitrate (ppm)	---	ND	0.052	0.17	ND	---	---	---	---	---	10	2
Sulfate (ppm)	---	28	25	7.2	20	---	---	---	---	---	250	125
Dissolved Oxygen (mg/l)	---	0.5	0.4	0.4	0.3	---	---	---	---	---	---	---
VOCs/PVOCs (ppb)[1]												
Benzene	**52**	**70**	**110**	**68**	**89**	**72**	**130**	**67**	**85**	**28.7**	5	0.5
n-Butlybenzene	<1.3	---	---	---	---	---	---	---	---	<0.5	---	---
cis-1,2-dichloroethene	2.2	---	---	---	---	---	---	---	---	<0.5	70	7
trans-1,2-dichloroethene	<1.3	---	---	---	---	---	---	---	---	<0.5	100	20
Ethylbenzene	<1.3	2.9	4.8	3.8	4.0	2.4	12	7.1	5.9	4.03	700	140
Isopropylbenzene	3.3	---	---	---	---	---	---	---	---	3.69	---	---
p-Isopropyltoluene	<1.3	---	---	---	---	---	---	---	---	0.762	---	---
Methyl-tert-butyl-ether	<13	1.8	3.5	0.62	1.6	5.3	2.6	ND	ND	<0.5	60	12
Naphthalene	<20	---	---	---	---	---	---	---	---	<2.0	40	8
Tetrachloroethene	<1.3	---	---	---	---	---	---	---	---	<0.5	5	0.5
Trichloroethene	<1.3	---	---	---	---	---	---	---	---	<0.5	5	0.5
n-propylbenzene	3.3	---	---	---	---	---	---	---	---	2.05	---	---
Toluene	<1.3	1.2	1.5	1.5	1.5	1.1	2.9	1.9	2.2	1.77	1,000	200
1,2,4-Trimethylbenzene	41	41	56	38	44	29	**100**	33	71	41.4	480*	96*
1,3,5-Trimethylbenzene	8	12	19	11	13	11	**34**	4.9	21	11.9		
Vinyl Chloride	<0.50	---	---	---	---	---	---	---	---	**12.0**	0.2	0.02
Xylene (total)	130	242.4	384.1	242.6	233.4	172.5	534.9	163.1	313.7	253	10,000	1,000

Bold values indicate concentrations exceeding the NR 140 preventative action limit (PAL) for Groundwater Quality
Shaded boxes indicate concentrations exceeding the NR 140 enforcement standard (ES) for Groundwater Quality
ND = Not Detected
* = Add concentrations of 1,2,4 and 1,3,5 TMB to determine presence of PAL or ES exceedance

TABLE 1 (page 6 of 9)
ANALYTICAL RESULTS - GROUNDWATER
H. A. FREITAG & SON CHLORINATED SITE

Sample	W-12A	W-12B	W-12	W-12	W-12	W-12	W-12	W-12	W-12	W-12	W-12	NR 140	
Monitor Well	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12	MW-H-12		
Date Collected	6/10/96	6/10/96	11/24/97	2/24/98	5/28/98	8/20/98	1/21/99	4/15/99	7/13/99	10/12/99	1/17/01	Standards	
ANALYTE												ES	PAL
GROs (ppb)	ND	---	---	---	---	1,300	350	540	900	1,400	---	---	---
Lead (ppm)	ND	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
Iron (ppm)	---	---	**7.3**	**4.5**	**1.7**	**11.0**	---	---	---	---	---	0.3	0.15
Manganese (ppm)	---	---	**1.7**	**3.7**	**0.98**	**1.1**	---	---	---	---	---	0.05	0.025
Nitrate (ppm)	---	---	ND	0.032	0.036	0.13	---	---	---	---	---	10	2
Sulfate (ppm)	---	---	19	3.9	7.2	31	---	---	---	---	---	250	125
Dissolved Oxygen (mg/l)	---	---	1.8	0.4	0.3	0.5	---	---	---	---	---	---	---
VOCs/PVOCs (ppb)[1]													
Benzene	<0.5	ND	<4.1	**0.81**	**0.7**	**1.7**	**0.67**	**0.77**	ND	**1.4**	<0.5	5	0.5
n-Butlybenzene	0.71	0.62	<3.1	---	---	---	---	---	---	---	<0.5	---	---
1,2-Dichloroethane	<0.5	<0.5	<2.4	---	---	---	---	---	---	---	**3.95**	5	0.5
1,1-Dichloroethene	<0.5	<0.5	<2.8	---	---	---	---	---	---	---	1.56	850	85
cis-1,2-dichloroethene	**46**	**33**	**1400**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**2,550**	70	7
trans-1,2-dichloroethene	<0.5	<0.5	4.7	---	---	---	---	---	---	---	3.63	100	20
Ethylbenzene	<0.5	<0.5	<2.3	ND	ND	ND	ND	ND	ND	ND	<0.5	700	140
Isopropylbenzene	<0.5	<0.5	<2.7	---	---	---	---	---	---	---	<0.5	---	---
p-Isopropyltoluene	<0.5	<0.5	<2.2	---	---	---	---	---	---	---	<0.5	---	---
Methyl-tert-butyl-ether	<5.0	<5.0	<5.3	8.7	ND	ND	ND	13	ND	ND	<0.5	60	12
Naphthalene	<8.0	<8.0	<6.6	---	---	---	---	---	---	---	<2.0	40	8
Tetrachloroethene	**1.4**	**1.4**	**250**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**11.5**	5	0.5
Trichloroethene	<0.5	<0.5	**780**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**220**	5	0.5
n-propylbenzene	<0.5	<0.5	<2.7	---	---	---	---	---	---	---	<0.5	---	---
Toluene	<0.5	<0.5	<2.8	0.39	ND	0.42	ND	ND	0.27	0.41	<0.5	1,000	200
1,2,4-Trimethylbenzene	1.6	1.6	1.6	ND	ND	ND	ND	ND	ND	ND	<1.0	480*	96*
1,3,5-Trimethylbenzene	<1.0	<1.0	<2.5	ND	ND	ND	ND	ND	ND	ND	<1.0		
Vinyl Chloride	<0.2	<0.2	<2.3	---	---	---	---	---	---	---	**0.47**	0.2	0.02
Xylene (total)	0.69	0.84	<2.8	ND	ND	ND	ND	ND	ND	1.1	<0.5	10,000	1,000

Bold values indicate concentrations exceeding the NR 140 preventative action limit (PAL) for Groundwater Quality
Shaded boxes indicate concentrations exceeding the NR 140 enforcement standard (ES) for Groundwater Quality
ND = Not Detected
* = Add concentrations of 1,2,4 and 1,3,5 TMB to determine presence of PAL or ES exceedance

TABLE 1 (page 8 of 9)
ANALYTICAL RESULTS - GROUNDWATER
H. A. FREITAG & SON CHLORINATED SITE

Sample	W-15	W-16	W-17	W-18	W-18	W-18	W-18	W-18	W-18	W-18	W-18	NR 140	
Monitor Well/Soil Boring	H-15 (T)	H-16 (T)	H-17 (T)	MW-H-18	MW-H-18	MW-H-18	MW-H-18	MW-H-18	MW-H-18	MW-H-18	MW-H-18		
Date Collected	9/17/96	9/17/96	9/17/96	10/1/96	2/24/98	5/28/98	8/20/98	1/21/99	4/15/99	7/13/99	10/12/99	Standards	
ANALYTE												ES	PAL
GROs (ppb)	---	ND	ND	130	220	180	260	290	170	390	450	---	---
Total Lead (ppm)	---	ND	---	---	---	---	---	---	---	---	---	0.015	0.0015
Iron (ppm)	---	---	---	---	**2.1**	---	---	---	---	---	---	0.3	0.15
Manganese (ppm)	---	---	---	---	**0.42**	---	---	---	---	---	---	0.05	0.025
Nitrate (ppm)	---	---	---	---	0.084	---	---	---	---	---	---	10	2
Sulfate (ppm)	---	---	---	---	19	---	---	---	---	---	---	250	125
Dissolved Oxygen (mg/l)	---	---	---	---	---	---	---	---	---	---	---		
VOCs/PVOCs (ppb)[1]													
Benzene	ND	ND	**14**	**59**	**48**	**39**	**56**	**48**	**25**	**77**	**42**	5	0.5
n-Butylbenzene	ND	ND	ND	1.2	---	---	---	---	---	---	---	---	---
cis-1,2-dichloroethene	**61**	**140**	ND	ND	---	---	---	---	---	---	---	70	7
trans-1,2-Dichloroethene	ND	0.8	ND	ND	---	---	---	---	---	---	---	100	20
Ethylbenzene	ND	0.63	ND	0.57	0.48	1.8	2.8	0.76	2	1.0	2.8	700	140
Isopropylbenzene	ND	ND	ND	0.82	---	---	---	---	---	---	---	---	---
p-Isopropyltoluene	ND	ND	ND	0.69	---	---	---	---	---	---	---	---	---
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	12
Naphthalene	ND	ND	ND	ND	---	---	---	---	---	---	---	40	8
Tetrachloroethene	ND	ND	ND	ND	---	---	---	---	---	---	---	5	0.5
Trichloroethene	ND	**4.8**	ND	ND	---	---	---	---	---	---	---	5	0.5
n-propylbenzene	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---
Toluene	ND	ND	ND	1.0	1.1	0.72	1.1	0.52	0.29	0.93	1.2	1,000	200
1,2,4-Trimethylbenzene	1.4	ND	ND	5.6	24	12	21	16	15	37	32	480*	96*
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.79	1.5	0.74	1.3	ND	9.7		
Vinyl chloride	**1.4**	ND	ND	ND	---	---	---	---	---	---	---	0.2	0.02
Xylene (total)	1.0	4.4	10	5.6	27.9	30.58	44.86	42.99	23.37	56.3	162.1	10,000	1,000

Bold values indicate concentrations exceeding the NR 140 preventative action limit (PAL) for Groundwater Quality
Shaded boxes indicate concentrations exceeding the NR 140 enforcement standard (ES) for Groundwater Quality
ND = Not Detected
--- = Not Analyzed
T = Indicates Temporary Well Sample
* = Add concentrations of 1,2,4 and 1,3,5 TMB to determine presence of PAL or ES exceedance

TABLE 1 (page 9 of 9)
ANALYTICAL RESULTS - GROUNDWATER
H. A. FREITAG & SON CHLORINATED SITE

Sample	FA-1W	W-19	W-19	W-19	W-19	W-19	W-19	W-19	W-19	W-19	W-19	NR 140	
Monitor Well/Soil Boring	FA-1 (T)	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19	MW-H-19		
Date Collected	2/18/94	11/24/97	2/24/98	5/28/98	8/20/98	8/20/98	1/21/99	4/15/99	7/13/99	10/12/99	1/17/01	Standards	
ANALYTE						DUPLICATE						ES	PAL
GROs (ppb)	ND	130	190	ND	ND	ND	88	110	ND	51	---	---	---
Total Lead (ppm)	---	---	---	---	---	---	---	---	---	---	---	0.015	0.0015
Iron (ppm)	---	**2.8**	**4.2**	**0.45**	**0.64**	**0.42**	---	---	---	---	---	0.3	0.15
Manganese (ppm)	---	**1.4**	**1.9**	**0.41**	**0.42**	**0.4**	---	---	---	---	---	0.05	0.025
Nitrate (ppm)	---	0.027	0.036	0.69	0.12	ND	---	---	---	---	---	10	2
Sulfate (ppm)	---	29	17	7.2	60	56	---	---	---	---	---	250	125
Dissolved Oxygen (mg/l)	---	1.6	0.4	1.4	0.3	---	---	---	---	---	---	---	---
VOCs/PVOCs (ppb)[1]													
Benzene	ND	**27**	**76**	**14**	**5.9**	**8.3**	**23**	**35**	**13**	**9.3**	**1.70**	5	0.5
n-Butylbenzene	ND	---	---	---	---	---	---	---	---	---	0.527	---	---
1,2-Dichlorobenzene		---	---	---	---	---	---	---	---	---	0.865	600	60
cis-1,2-dichloroethene	ND	---	---	---	---	---	---	---	---	---	6.21	70	7
trans-1,2-Dichloroethene	ND	---	---	---	---	---	---	---	---	---	<0.5	100	20
Ethylbenzene	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	<0.5	700	140
Isopropylbenzene	ND	---	---	---	---	---	---	---	---	---	<0.5	---	---
p-Isopropyltoluene	ND	---	---	---	---	---	---	---	---	---	<0.5	---	---
Methyl-tert-butyl-ether	ND	ND	11	2.1	0.36	0.36	1.3	2.2	0.7	0.97	<0.5	60	12
Naphthalene	ND	---	---	---	---	---	---	---	---	---	<2.0	40	8
Tetrachloroethene	ND	---	---	---	---	---	---	---	---	---	<0.5	5	0.5
Trichloroethene	ND	---	---	---	---	---	---	---	---	---	<0.5	5	0.5
n-propylbenzene	ND	---	---	---	---	---	---	---	---	---	<0.5	---	---
Toluene	ND	0.55	ND	ND	ND	ND	0.31	0.3	0.22	0.42	<0.5	1,000	200
1,2,4-Trimethylbenzene	ND	5.9	6.9	ND	ND	ND	3.8	4.9	ND	1.0	<1.0	480*	96*
1,3,5-Trimethylbenzene	ND	1.3	1.2	ND	ND	ND	0.63	1.1	ND	ND	<1.0		
Vinyl chloride	ND	---	---	---	---	---	---	---	---	---	**2.52**	0.2	0.02
Xylene (total)	ND	20.89	27.86	ND	ND	1.8	12.47	11.51	ND	10.26	0.718	10,000	1,000

Bold values indicate concentrations exceeding the NR 140 preventative action limit (PAL) for Groundwater Quality
Shaded boxes indicate concentrations exceeding the NR 140 enforcement standard (ES) for Groundwater Quality
ND = Not Detected
--- = Not Analyzed
* = Add concentrations of 1,2,4 and 1,3,5 TMB to determine presence of PAL or ES exceedance