

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email if Available

Mr. Richard Rusch or Current Property Owner
518 N. 64th Street
Wauwatosa, WI 53213

RE: Results of December 2018 Groundwater Sample from Monitoring Well MW-10, 518 N. 64th Street, Wauwatosa, Wisconsin, Master Dry Cleaners DERF Site, 6326 W. Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Dear Property Owner:

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

The groundwater chemistry laboratory analytical report showing the result of the testing from your property is attached. Also attached is a table showing the historic results on the groundwater from your well and a map showing the well locations for this project.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from your property, and other off-site properties, indicate concentrations of PCE and/or related breakdown products may still be present in some of the groundwater off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals. The Master Cleaners property was also a gasoline station, and a release of petroleum has also been documented, remediated, and closed by the WDNR. Some petroleum related compounds are also present in the groundwater.

As shown on the table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested compounds.

While several of the tested locations display one or more compounds in the groundwater at concentrations above the standards, we expect those levels to continue to decrease over time as the chemicals are further degraded.

When the groundwater from the Master Cleaners site and your property display stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

Thanks for your help on this project. While this post-inject sample is encouraging, we will be obtaining more samples to verify the remedy continues to work. The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, if you have any questions, I can be reached at (920) 453-0700, or the WDNR project manager, Mr. J. Hnat at (414) 263-8644 a call.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Report
Table of Groundwater Results
WDNR Form 4400-249
Figure 1: Well Locations

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: **SMW-10** Lab ID: **40181617010** Collected: 12/28/18 10:35 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	6.5J	ug/L	20.0	4.9	20		01/07/19 08:49	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		01/07/19 08:49	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		01/07/19 08:49	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		01/07/19 08:49	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		01/07/19 08:49	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		01/07/19 08:49	74-83-9	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		01/07/19 08:49	104-51-8	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		01/07/19 08:49	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		01/07/19 08:49	98-06-6	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		01/07/19 08:49	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		01/07/19 08:49	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		01/07/19 08:49	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		01/07/19 08:49	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		01/07/19 08:49	74-87-3	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		01/07/19 08:49	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		01/07/19 08:49	106-43-4	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		01/07/19 08:49	96-12-8	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		01/07/19 08:49	124-48-1	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		01/07/19 08:49	106-93-4	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		01/07/19 08:49	74-95-3	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		01/07/19 08:49	95-50-1	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		01/07/19 08:49	541-73-1	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		01/07/19 08:49	106-46-7	
Dichlorodifluoromethane	<10	ug/L	100	10	20		01/07/19 08:49	75-71-8	
1,1-Dichloroethane	<5.5	ug/L	20.0	5.5	20		01/07/19 08:49	75-34-3	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		01/07/19 08:49	107-06-2	
1,1-Dichloroethene	23.7	ug/L	20.0	4.9	20		01/07/19 08:49	75-35-4	
cis-1,2-Dichloroethene	2030	ug/L	20.0	5.4	20		01/07/19 08:49	156-59-2	
trans-1,2-Dichloroethene	<21.8	ug/L	72.7	21.8	20		01/07/19 08:49	156-60-5	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		01/07/19 08:49	78-87-5	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		01/07/19 08:49	142-28-9	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		01/07/19 08:49	594-20-7	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		01/07/19 08:49	563-58-6	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		01/07/19 08:49	10061-01-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		01/07/19 08:49	10061-02-6	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		01/07/19 08:49	108-20-3	
Ethylbenzene	524	ug/L	20.0	4.4	20		01/07/19 08:49	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		01/07/19 08:49	87-68-3	
Isopropylbenzene (Cumene)	22.1J	ug/L	100	7.9	20		01/07/19 08:49	98-82-8	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		01/07/19 08:49	99-87-6	
Methylene Chloride	<11.6	ug/L	100	11.6	20		01/07/19 08:49	75-09-2	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		01/07/19 08:49	1634-04-4	
Naphthalene	<23.5	ug/L	100	23.5	20		01/07/19 08:49	91-20-3	
n-Propylbenzene	45.1J	ug/L	100	16.2	20		01/07/19 08:49	103-65-1	
Styrene	<9.3	ug/L	31.0	9.3	20		01/07/19 08:49	100-42-5	
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		01/07/19 08:49	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: SMW-10 Lab ID: 40181617010 Collected: 12/28/18 10:35 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		01/07/19 08:49	79-34-5	
Tetrachloroethene	11.1J	ug/L	21.8	6.5	20		01/07/19 08:49	127-18-4	
Toluene	1300	ug/L	100	3.4	20		01/07/19 08:49	108-88-3	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		01/07/19 08:49	87-61-6	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		01/07/19 08:49	120-82-1	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		01/07/19 08:49	71-55-6	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		01/07/19 08:49	79-00-5	
Trichloroethene	43.7	ug/L	20.0	5.1	20		01/07/19 08:49	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		01/07/19 08:49	75-69-4	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		01/07/19 08:49	96-18-4	
1,2,4-Trimethylbenzene	545	ug/L	56.0	16.8	20		01/07/19 08:49	95-63-6	
1,3,5-Trimethylbenzene	225	ug/L	58.2	17.5	20		01/07/19 08:49	108-67-8	
Vinyl chloride	28.4	ug/L	20.0	3.5	20		01/07/19 08:49	75-01-4	
m&p-Xylene	2510	ug/L	40.0	9.3	20		01/07/19 08:49	179601-23-1	
o-Xylene	895	ug/L	20.0	5.2	20		01/07/19 08:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		20		01/07/19 08:49	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		20		01/07/19 08:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		20		01/07/19 08:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Sample ID	Date	Groundwater Elevation	NR 40.10 Preventive Action Limit	NR 40.10 EIS Remediation Standard	SMW-10 518 N. 64th Street, Wauwatosa, WI 53213												
					09/09/08	08/18/09	07/01/10	10/29/10	01/10/12	09/30/15	04/26/16	10/14/16	02/22/17	05/23/17	10/02/17	12/27/18	
					678.23	677.94	680.07	677.51	678.29	678.27	679.57	678.26	678.40	679.95	678.71	680.30	
Tetrachloroethene (PCE)	(ug/L)	0.5	5	7,700	440	--	--	--	--	583	1.0 J	242	58.2	51.9	<12.5	11.1 J	
Trichloroethene (TCE)	(ug/L)	0.5	5	139	<19.5	--	--	--	--	263	75.7	251	136	124	<8.3	43.7	
cis-1,2-Dichloroethene	(ug/L)	7	70	<22	<34	--	--	--	--	777	162	1,430	2,750	2,840	3,220	2,030	
trans-1,2-Dichloroethene	(ug/L)	20	100	<30.5	<30.5	--	--	--	--	14.2	<0.51	13.7 J	<5.1	9.0 J	<6.4	<21.8	
Vinyl Chloride	(ug/L)	0.02	0.2	<10	<10	--	--	--	--	37.5	2.9	50.8	<3.5	40.8	<4.4	28.4	
Methylene Chloride	(ug/L)	0.5	5	<49.5	<75	--	--	--	--	<2.3	<0.47	<4.7	<4.7	<4.7	<5.8	<11.6	
Benzene	(ug/L)	0.5	5	24.5 J	<20.5	<4	6.1	3.6	<5.0	<1.0	<10.0	<10.0	<10.0	11.5 J	<12.5	6.5 J	
Ethylbenzene	(ug/L)	140	700	2,470	105 J	12 J	296	390	326	19.2	451	396	746	606	524		
Toluene	(ug/L)	160	800	1,140	53 J	37	65	120	65.5	67	290	1,080	948	546	1,300		
Xylenes (TOTAL)	(ug/L)	400	2,000	8,730	699	90	770	1,237	795	336	1,422	2,697	2,792	2,570	3,405		
m,p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	688	216	1,180	2,290	2,680	2,210	2,510		
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	107	120	242	407	112	360	895		
Naphthalene	(ug/L)	10	100	312	<85	<12	61	107	54.2	<5.0	82.3 J	<50.0	<50.0	<62.5	<23.5		
MTBE	(ug/L)	12	60	<35	<25	<4.9	<0.49	<0.47	<1.7	<0.35	<3.5	<3.5	<3.5	<4.4	<24.9		
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	96	480	2,350	354	43.9	427	621	486.7	226.7	649.8	657.4	883	933	770		
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	1,880	270	27.2	370	490	454	175	612	600	738	811	545		
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	<470	84 J	16.7 J	57	131	32.7	51.7	37.8	57.4	145	122	225		
Bromobenzene	(ug/L)	NS	NS	<22	<21.5	--	--	--	<2.3	<0.68	<4.6	<4.6	<4.6	<5.8	<4.8		
Bromochloromethane	(ug/L)	NS	NS	--	--	--	--	--	<3.4	<1.0	<6.8	<6.8	<6.8	<8.5	<7.2		
Bromodichloromethane	(ug/L)	0.06	0.6	<15	<20.5	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<7.3		
Bromoform	(ug/L)	0.44	4.4	<35	<23	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<79.4		
Bromomethane	(ug/L)	10	--	--	--	--	--	--	<24.3	<4.9	<48.7	<48.7	<48.7	<60.9	<19.4		
n-Butylbenzene	(ug/L)	NS	NS	66 J	<75	--	--	--	61.2	<1.0	<10.0	<10.0	<10.0	<12.5	<14.2		
sec-Butylbenzene	(ug/L)	NS	NS	<36.5	<21.5	--	--	--	<21.9	<4.4	<43.7	<43.7	<43.7	<54.7	<17.0		
tert-Butylbenzene	(ug/L)	NS	NS	<16	<23	--	--	--	<1.8	<0.36	<3.6	<3.6	<3.6	<4.5	<6.1		
Carbon Tetrachloride	(ug/L)	0.5	5	<15	<21	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<3.3		
Chlorobenzene	(ug/L)	NS	NS	<19.5	<19.5	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<14.2		
Chloroethane	(ug/L)	80	400	<48.5	<75	--	--	--	<3.7	<0.75	<7.5	<7.5	<7.5	<9.4	<26.8		
Chloroform	(ug/L)	0.6	6	<23.5	<24	--	--	--	<25.0	<5.0	<50.0	<50.0	<50.0	<62.5	<25.5		
Chloromethane	(ug/L)	3	30	<25	<25	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<43.8		
2-Chlorotoluene	(ug/L)	NS	NS	<20.5	<18.5	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<18.5		
4-Chlorotoluene	(ug/L)	NS	NS	<15	<21.5	--	--	--	<2.1	<0.43	<4.3	<4.3	<4.3	<5.3	<15.1		
1,2-Dibromo-3-chloropropane	(ug/L)	0.02	0.2	<85	<100	--	--	--	<21.6	<4.3	<43.3	<43.3	<43.3	<54.1	<35.3		
Dibromochloromethane	(ug/L)	6	60	<20	<38	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<52.0		
1,2-Dibromoethane (DBE)	(ug/L)	0.005	0.05	<38	<26	--	--	--	<1.8	<0.36	<3.6	<3.6	<3.6	<4.4	<16.6		
Dibromomethane	(ug/L)	NS	NS	--	--	--	--	--	<4.3	<0.85	<8.5	<8.5	<8.5	<10.7	<18.7		
1,2-Dichlorobenzene	(ug/L)	60	600	<44	<33	--	--	--	<0.50	<1.0	<10.0	<10.0	<10.0	<12.5	<14.1		
1,3-Dichlorobenzene	(ug/L)	120	600	<33.5	<17	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<12.6		
1,4-Dichlorobenzene	(ug/L)	15	75	<37	<38.5	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<18.9		
Dichlorodifluoromethane	(ug/L)	200	1,000	<38	<22.5	--	--	--	<2.2	<0.45	<4.5	<4.5	<4.5	<5.6	<10		
1,1-Dichloroethane	(ug/L)	85	850	<29.5	<22	--	--	--	<2.4	<0.48	<4.8	<4.8	<4.8	<6.0	<5.5		
1,2-Dichloroethane	(ug/L)	0.5	5	<20.5	<21.5	--	--	--	<1.7	<0.34	<3.4	<3.4	<3.4	<4.2	<5.6		
1,1-Dichloroethene	(ug/L)	0.7	7	<25	<23.5	--	--	--	<4.1	<0.82	8.8 J	22.0	17.6 J	32.3	23.7		
1,2-Dichloropropane	(ug/L)	0.5	5	<13.5	<13	--	--	--	<2.3	<0.47	<4.7	<4.7	<4.7	<5.8	<5.7		
1,3-Dichloropropane	(ug/L)	NS	NS	<20	<24.5	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<16.5		
2,2-Dichloropropane	(ug/L)	NS	NS	<26.5	<44.5	--	--	--	<4.8	<0.97	<9.7	<9.7	<9.7	<12.1	<45.3		
1,1-Dichloropropene	(ug/L)	NS	NS	--	--	--	--	--	<4.4	<0.88	<8.8	<8.8	<8.8	<11.0	<10.8		
cis-1,3-Dichloropropene	(ug/L)	0.04	0.4	--	--	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<72.6		
trans-1,3-Dichloropropene	(ug/L)	0.04	0.4	--	--	--	--	--	<2.3	<0.46	<4.6	<4.6	<4.6	<5.7	<87.4		
Dilopropyl ether	(ug/L)	NS	NS	<18.5	<16	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<37.8		
Hexachloro-1,3-butadiene	(ug/L)	NS	NS	<85	<75	--	--	--	<21.1	<4.2	<42.1	<42.1	<42.1	<52.6	<23.6		
Isopropylbenzene	(ug/L)	NS	NS	130	20 J	--	--	--	18.8	1.5 J	34.3	14.0 J	32.4	29.8	22.1 J		
p-Isopropyltoluene	(ug/L)	NS	NS	<38.5	<28.5	--	--	--	<5.0	3.2	<10.0	<10.0	<10.0	<12.5	<16.0		
n-Propylbenzene	(ug/L)	NS	NS	360	40 J	--	--	--	40.9	1.7 J	72.9	22.2	57.0	59.8	45.1 J		
Styrene	(ug/L)	10	100	--	--	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<9.3		
1,1,1,2-Tetrachloroethane	(ug/L)	7	70	<16	<27	--	--	--	<1.8	<0.36	<3.6	<3.6	<3.6	<4.5	<5.4		
1,1,2,2-Tetrachloroethane	(ug/L)	0.02	0.2	<25	<27.5	--	--	--	<2.5	<0.50	<5.0	<5.0	<5.0	<6.2	<5.5		
1,1,2,3-Trichlorobenzene	(ug/L)	NS	NS	<80	<80	--	--	--	<21.3	<4.3	<42.7	<42.7	<42.7	<53.3	<12.5		
1,2,4-Trichlorobenzene	(ug/L)	14	70	<55	<105	--	--	--	<22.1	<4.4	<44.2	<44.2	<44.2	<55.2	<19.0		
1,1,1-Trichloroethane	(ug/L)	40	200	<14	<23	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<4.9		
1,1,2-Trichloroethane	(ug/L)	0.5	5	<19.5	<20.5	--	--	--	<2.0	<0.39	<3.9	<3.9	<3.9	<4.9	<11.0		
Trichlorofluoromethane	(ug/L)	NS	NS	<40.5	<36	--	--	--	<1.8	<0.37	<3.7	<3.7	<3.7	<4.6	<4.3		
1,2,3-Trichloropropane	(ug/L)	12	60	--	--	--	--	--	<5.0	<1.0	<10.0	<10.0	<10.0	<12.5	<11.8		

INJECTION DECEMBER 2015

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information			
Site Name		DNR ID # (BRRTS #)	
Master Drycleaning Inc		02-41-545142	
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213

Responsible Party			
The person(s) responsible for completing this environmental investigation is:			
Property Owner			
Master Drycleaning Inc.			
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213
Contact Person		Phone Number (include area code)	
Mr. Harold Shipshock / Tom Shipshock (son)		(414) 313-9168	
Person or company that collected samples			
Fehr-Graham Inc.			

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Post-Treatment Routine Monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well.

Yes No

If yes, the sampled drinking water well had detectable contaminants.

Yes No

Contaminants in Vapor		
	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/n589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Fehr-Graham Inc.		Ebbott	Kendrick	
Address		City	State	ZIP Code
909 N. 8th Street, Suite 101		Sheboygan	WI	53081
Phone # (inc. area code)	Email			
(920) 453-0700	Kebbott@fehr-graham.com			

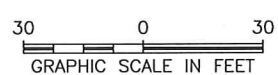
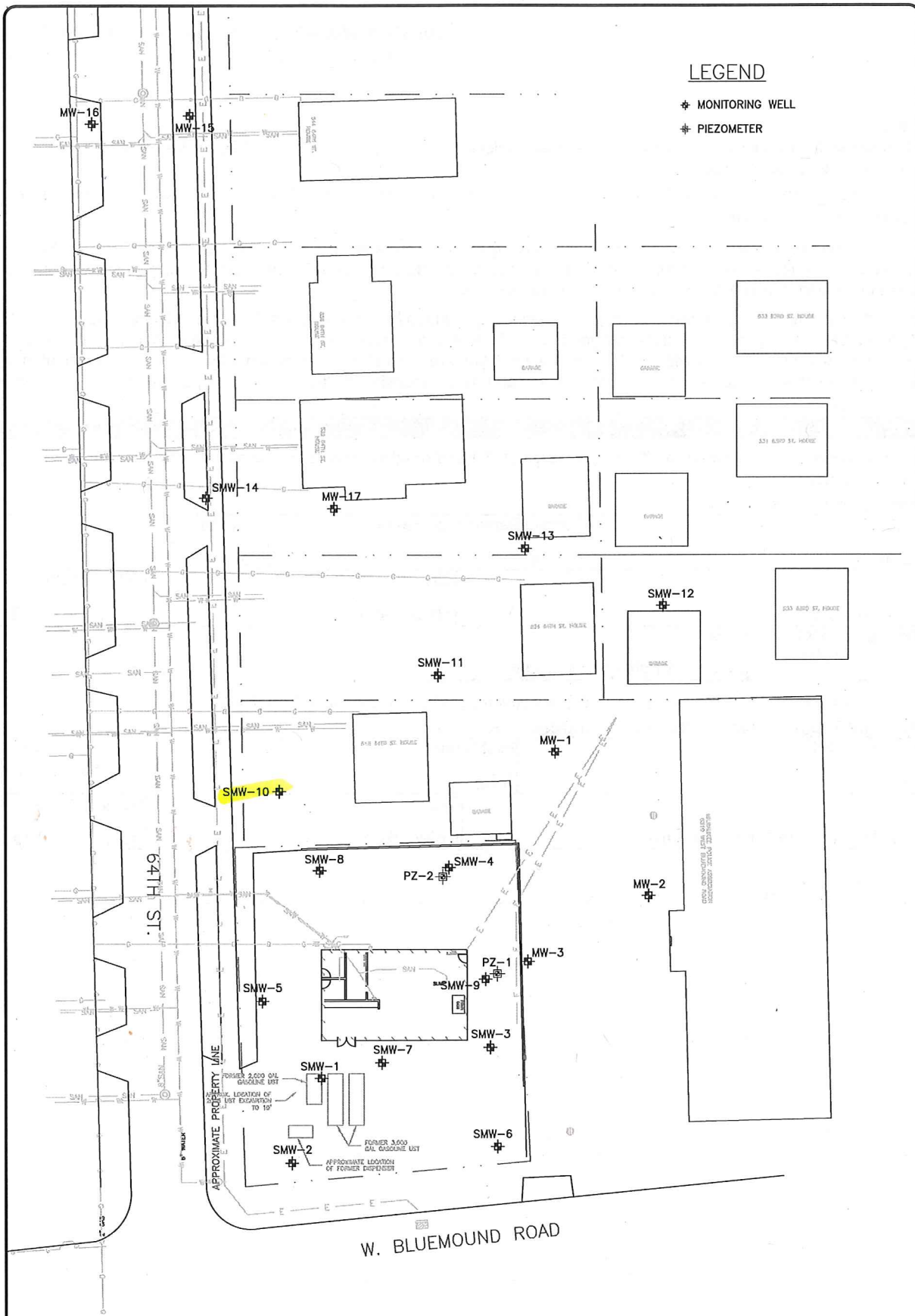
Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Hnat		John	(414) 263-8644	
Address		City	State	ZIP Code
2300 N. Dr. Martin Luther King Jr. Drive		Milwaukee	WI	53212
Email				
John.Hnat@Wisconsin.gov				

LEGEND

- ◆ MONITORING WELL
- ◆ PIEZOMETER



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
 ENGINEERING & ENVIRONMENTAL

MASTER DRYCLEANING INC.
 6326 W. BLUEMOUND RD.
 WAUWATOSA, WI 53213

DRWN:MKH DATE:01/17/14 APPD:KE

TITLE: BASE MAP

BRRTS: 02-41-545142
 JOB NO.: 15-1209
 PLOT DATE: 2/1/19

FIGURE: 1

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email if Available

Ms. Ledvina or Current Property Owner
523 N. 63rd St.
Wauwatosa, WI 53213

RE: Results of December 2018 Groundwater Sample from Monitoring Well 12, 523 North 63rd Street, Wauwatosa, Wisconsin, Master Dry Cleaners DERF Site, 6326 West Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Dear Property Owner:

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

The groundwater chemistry laboratory analytical report showing the result of the testing from your property is attached. Also attached is a table showing the historic results on the groundwater from your well and a map showing the well locations for this project.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from your property indicates no contamination has been detected for the third straight post-injection sample. Other off-site properties, indicate concentrations of PCE and/or related breakdown products may still be present in some of the groundwater off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals.

As shown on the table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested compounds. While several of the tested locations display one or more drycleaning related compounds in the groundwater at concentrations above the standards, we expect those levels to

continue to decrease over time as the chemicals are further degraded. At your property, no compounds were detected above state standards.

When the groundwater from the Master Cleaners site and your property display stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

Thanks for your help on this project. While this post-inject sample is encouraging, we will be obtaining more samples to verify the remedy continues to work. The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, if you have any questions, I can be reached at (920) 453-0700, or the WDNR project manager, Mr. J. Hnat at (414) 263-8644 a call.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Report
Table of Groundwater Results
WDNR Form 4400-249
Figure 1: Well Locations



ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: SMW-12 Lab ID: 40181617012 Collected: 12/28/18 10:25 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 12:52	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 12:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 12:52	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 12:52	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 12:52	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 12:52	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:52	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 12:52	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 12:52	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 12:52	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:52	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 12:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 12:52	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 12:52	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 12:52	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 12:52	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 12:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 12:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 12:52	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 12:52	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:52	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 12:52	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 12:52	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 12:52	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 12:52	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:52	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 12:52	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/04/19 12:52	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 12:52	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:52	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 12:52	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 12:52	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 12:52	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 12:52	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 12:52	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 12:52	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 12:52	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 12:52	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 12:52	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 12:52	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 12:52	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 12:52	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 12:52	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 12:52	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 12:52	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: SMW-12 Lab ID: 40181617012 Collected: 12/28/18 10:25 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:52	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/04/19 12:52	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 12:52	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 12:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 12:52	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 12:52	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 12:52	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/04/19 12:52	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 12:52	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 12:52	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 12:52	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 12:52	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 12:52	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 12:52	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 12:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/04/19 12:52	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		01/04/19 12:52	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/04/19 12:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Sample ID	Date	Groundwater Elevation	NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	SMW-12 523 N. 64th Street, Wauwatosa, WI 53213								
					09/09/08			08/18/09			09/30/15		
					678.64	677.78	678.38	679.04	679.60	678.42	679.04	679.60	678.42
Tetrachloroethene (PCE)	(ug/L)	0.5	5	0.75 J	+0.42	+0.50	+0.50	+0.50	+0.50	+0.33			
Trichloroethene (TCE)	(ug/L)	0.5	5	+0.47	+0.39	+0.33	+0.33	+0.33	+0.33	+0.26			
cis-1,2-Dichloroethene	(ug/L)	7	70	+0.44	+0.68	1.9	+0.26	+0.26	+0.27	+0.27			
trans-1,2-Dichloroethene	(ug/L)	20	100	+0.61	+0.61	+0.26	+0.26	+0.26	+0.26	+1.1			
Vinyl Chloride	(ug/L)	0.02	0.2	0.59 J	1.2	5.8	+0.18	+0.18	+0.17	+0.17			
Methylene Chloride	(ug/L)	0.5	5	+0.99	+1.5	+0.23	+0.23	+0.23	+0.23	+0.58			
Benzene	(ug/L)	0.5	5	+0.24	+0.41	+0.50	+0.50	+0.50	+0.50	+0.25			
Ethylbenzene	(ug/L)	140	700	+0.35	+0.87	+0.50	+0.50	+0.50	+0.50	+0.22			
Toluene	(ug/L)	160	800	+0.39	+0.51	+0.50	+0.50	+0.50	+0.50	+0.17			
Xylenes (TOTAL)	(ug/L)	400	2,000	+1.67	+2.13	+1.5	+1.50	+1.5	+1.5	+0.73			
m,p-Xylene	(ug/L)	NS	NS	..	..	+1.0	+1.0	+1.0	+1.0	+0.47	
o-Xylene	(ug/L)	NS	NS	..	..	+0.50	+0.50	+0.50	+0.50	+0.26	
Naphthalene	(ug/L)	10	100	+1.8	+1.7	+2.5	+2.5	+2.5	+2.5	+1.2			
MTBE	(ug/L)	12	60	+0.7	+0.5	+0.17	+0.17	+0.17	+0.17	+1.2			
Trimethylbenzene Total (1,2,4- & 1,3,5)	(ug/L)	96	480	+0.74	+2.6	+1.0	+0.50	+1.0	+1.0	+1.71			
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	+0.51	+1.1	+0.50	+0.50	+0.50	+0.50	+0.84			
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	+0.23	+1.5	+0.50	+0.50	+0.50	+0.50	+0.87			
Bromobenzene	(ug/L)	NS	NS	+0.44	+0.43	+0.23	+0.23	+0.23	+0.23	+0.24			
Bromochloromethane	(ug/L)	NS	NS	..	..	+0.34	+0.34	+0.34	+0.34	+0.36	
Bromodichloromethane	(ug/L)	0.06	0.6	+0.3	+0.41	+0.50	+0.50	+0.50	+0.50	+0.36			
Bromoforn	(ug/L)	0.44	4.4	+0.7	+0.46	+0.50	+0.50	+0.50	+0.50	+4.0			
Bromomethane	(ug/L)	1	10	..	..	+2.4	+2.4	+2.4	+2.4	+0.97	
n-Butylbenzene	(ug/L)	NS	NS	+0.55	+1.5	+0.50	+0.50	+0.50	+0.50	+0.71			
sec-Butylbenzene	(ug/L)	NS	NS	+0.73	+0.43	+2.2	+2.2	+2.2	+2.2	+0.85			
tert-Butylbenzene	(ug/L)	NS	NS	+0.32	+0.46	+0.18	+0.18	+0.18	+0.18	+0.30			
Carbon Tetrachloride	(ug/L)	0.5	5	+0.3	+0.43	+0.50	+0.50	+0.50	+0.50	+0.17			
Chlorobenzene	(ug/L)	NS	NS	+0.39	+0.39	+0.50	+0.50	+0.50	+0.50	+0.71			
Chloroethane	(ug/L)	80	400	+0.97	+1.5	+0.37	+0.37	+0.37	+0.37	+1.3			
Chloroform	(ug/L)	0.6	6	+0.47	+0.48	+2.5	+2.5	+2.5	+2.5	+1.3			
Chloromethane	(ug/L)	3	30	+0.5	+0.5	+0.50	+0.50	+0.50	+0.50	+2.2			
2-Chlorotoluene	(ug/L)	NS	NS	+0.41	+0.37	+0.50	+0.50	+0.50	+0.50	+0.93			
4-Chlorotoluene	(ug/L)	NS	NS	+0.3	+0.63	+0.21	+0.21	+0.21	+0.21	+0.76			
1,2-Dibromo-3-chloropropane	(ug/L)	0.02	0.2	+1.7	+2	+2.2	+2.2	+2.2	+2.2	+1.8			
Dibromochloromethane	(ug/L)	6	60	+0.4	+0.76	+0.50	+0.50	+0.50	+0.50	+2.6			
1,2-Dibromomethane (EDB)	(ug/L)	0.005	0.05	+0.76	+0.52	+0.18	+0.18	+0.18	+0.18	+0.83			
Dibromomethane	(ug/L)	NS	NS	..	..	+0.43	+0.43	+0.43	+0.43	+0.94	
1,2-Dichlorobenzene	(ug/L)	60	600	+0.88	+0.66	+0.50	+0.50	+0.50	+0.50	+0.71			
1,3-Dichlorobenzene	(ug/L)	120	600	+0.67	+0.34	+0.50	+0.50	+0.50	+0.50	+0.63			
1,4-Dichlorobenzene	(ug/L)	15	75	+0.74	+0.77	+0.50	+0.50	+0.50	+0.50	+0.94			
Dichlorodifluoromethane	(ug/L)	200	1,000	+0.76	+0.45	+0.22	+0.22	+0.22	+0.22	+0.50			
1,1-Dichloroethane	(ug/L)	85	850	+0.59	+0.44	+0.24	+0.24	+0.24	+0.24	+0.27			
1,2-Dichloroethane	(ug/L)	0.5	5	+0.41	+0.43	+0.17	+0.17	+0.17	+0.17	+0.28			
1,1-Dichloroethene	(ug/L)	0.7	7	+0.5	+0.47	+0.41	+0.41	+0.41	+0.41	+0.24			
1,2-Dichloropropane	(ug/L)	0.5	5	+0.27	+0.26	+0.23	+0.23	+0.23	+0.23	+0.08			
1,3-Dichloropropane	(ug/L)	NS	NS	+0.4	+0.49	+0.50	+0.50	+0.50	+0.50	+0.83			
2,2-Dichloropropane	(ug/L)	NS	NS	+0.53	+0.89	+0.48	+0.48	+0.48	+0.48	+2.3			
1,1-Dichloropropene	(ug/L)	NS	NS	..	..	+0.44	+0.44	+0.44	+0.44	+0.54	
cis-1,3-Dichloropropene	(ug/L)	0.04	0.4	..	..	+0.50	+0.50	+0.50	+0.50	+3.6	
trans-1,3-Dichloropropene	(ug/L)	0.04	0.4	..	..	+0.23	+0.23	+0.23	+0.23	+4.4	
Dihropyl ether	(ug/L)	NS	NS	+0.37	+0.32	+0.50	+0.50	+0.50	+0.50	+1.9			
Hexachloro-1,2-butadiene	(ug/L)	NS	NS	+1.7	+1.5	+2.1	+2.1	+2.1	+2.1	+1.2			
Isopropylbenzene	(ug/L)	NS	NS	+0.6	+0.39	+0.14	+0.14	+0.14	+0.14	+0.39			
p-Isopropyltoluene	(ug/L)	NS	NS	+0.77	+0.57	+0.50	+0.50	+0.50	+0.50	+0.80			
n-Propylbenzene	(ug/L)	NS	NS	+0.54	+0.33	+0.50	+0.50	+0.50	+0.50	+0.81			
Styrene	(ug/L)	10	100	..	..	+0.50	+0.50	+0.50	+0.50	+0.47	
1,1,1,2-Tetrachloroethane	(ug/L)	7	70	+0.32	+0.54	+0.18	+0.18	+0.18	+0.18	+0.27			
1,1,1,2,2-Tetrachloroethane	(ug/L)	0.02	0.2	+0.5	+0.55	+0.25	+0.25	+0.25	+0.25	+0.28			
1,1,3-Trichlorobenzene	(ug/L)	NS	NS	+1.6	+1.6	+2.1	+2.1	+2.1	+2.1	+0.63			
1,2,4-Trichlorobenzene	(ug/L)	14	70	+1.1	+2.1	+2.2	+2.2	+2.2	+2.2	+0.95			
1,1,1-Trichloroethane	(ug/L)	40	200	+0.28	+0.46	+0.50	+0.50	+0.50	+0.50	+0.24			
1,1,2-Trichloroethane	(ug/L)	0.5	5	+0.39	+0.41	+0.20	+0.20	+0.20	+0.20	+0.55			
Trichlorofluoromethane	(ug/L)	NS	NS	+0.81	+0.72	+0.18	+0.18	+0.18	+0.18	+0.21			
1,2,3-Trichloropropane	(ug/L)	12	60	..	..	+0.50	+0.50	+0.50	+0.50	+0.59	

INJECTION POINTS (METERS)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information			
Site Name		DNR ID # (BRRTS #)	
Master Drycleaning Inc		02-41-545142	
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213

Responsible Party			
The person(s) responsible for completing this environmental investigation is:			
Property Owner			
Master Drycleaning Inc.			
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213
Contact Person		Phone Number (include area code)	
Mr. Harold Shipshock / Tom Shipshock (son)		(414) 313-9168	
Person or company that collected samples			
Fehr-Graham Inc.			

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Post-Treatment Routine Monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Fehr-Graham Inc.		Ebbott	Kendrick	
Address		City	State	ZIP Code
909 N. 8th Street, Suite 101		Sheboygan	WI	53081
Phone # (inc. area code)	Email			
(920) 453-0700	Kebott@fehr-graham.com			

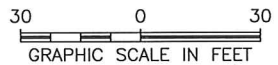
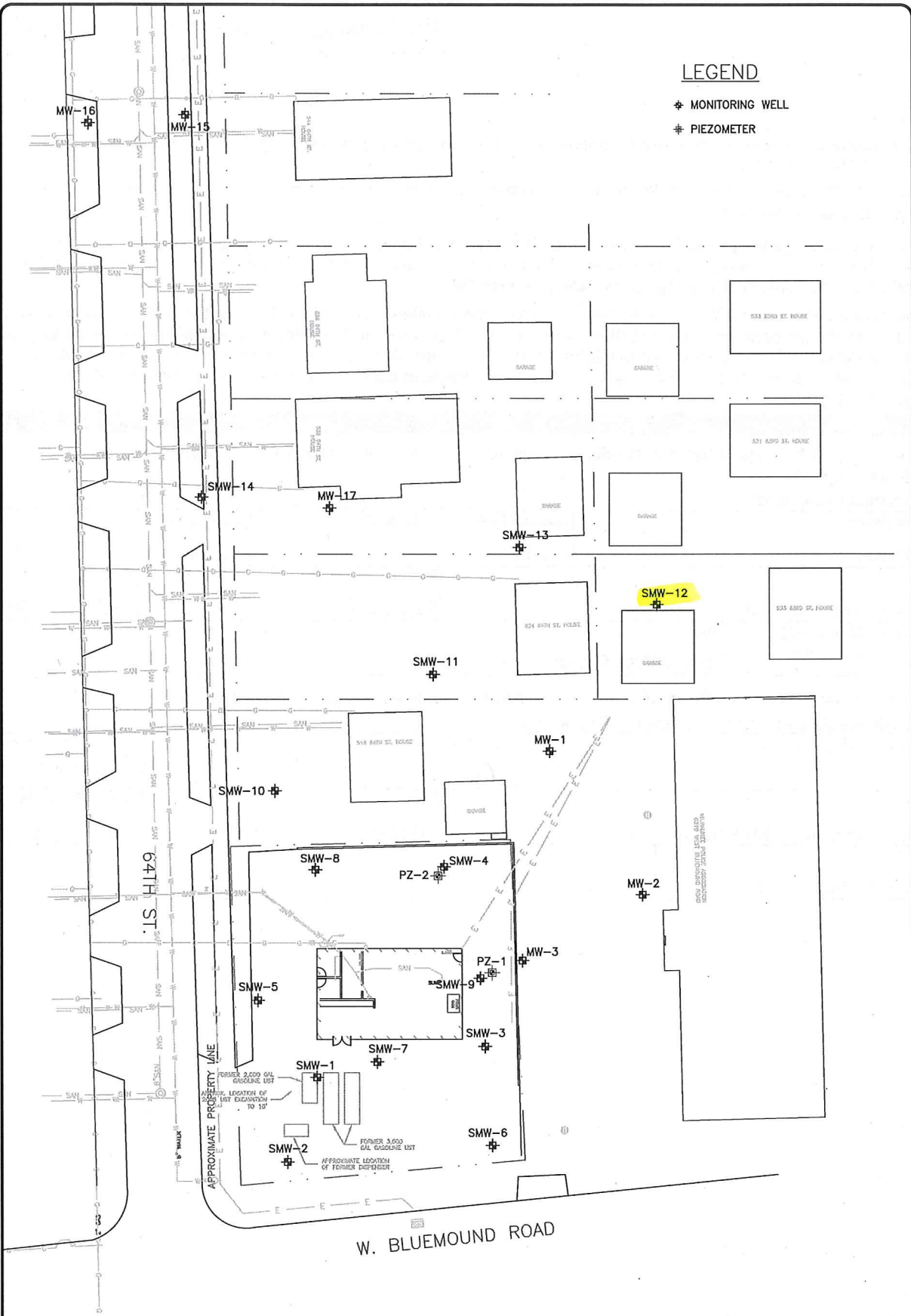
Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Hnat		John	(414) 263-8644	
Address		City	State	ZIP Code
2300 N. Dr. Martin Luther King Jr. Drive		Milwaukee	WI	53212
Email				
John.Hnat@Wisconsin.gov				

LEGEND

- ⊕ MONITORING WELL
- ⊕ PIEZOMETER



FEHR GRAHAM ILLINOIS ENGINEERING & ENVIRONMENTAL WISCONSIN	TITLE:	BASE MAP
	MASTER DRYCLEANING INC. 6326 W. BLUEMOUND RD. WAUWATOSA, WI 53213 DRWN:MKH DATE:01/17/14 APPD:KE	BRRTS: 02-41-545142 JOB NO.: 15-1209 PLOT DATE: 2/1/19	FIGURE: 1

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email if Available

Mr. John Kuchno
505 N. Rosedale Drive
Brookfield, WI 53005

RE: Results of December 2018 Groundwater Sample from Monitoring Well MW-11, 524 N. 64th Street, Wauwatosa, Wisconsin, Master Dry Cleaners DERF Site, 6326 West Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Dear Property Owner:

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

The groundwater chemistry laboratory analytical report showing the result of the testing from your property is attached. Also attached is a table showing the historic results on the groundwater from your well and a map showing the well locations for this project.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from your property, and other off-site properties, indicate concentrations of PCE and/or related breakdown products may still be present in some of the groundwater off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals.

As shown on the table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested compounds. While several of the tested locations display one or more drycleaning related compounds in the groundwater at concentrations above the standards, we expect those levels to continue to decrease over time as the chemicals are further degraded.

February 1, 2019
Fehr Graham
Page 2

When the groundwater from the Master Cleaners site and your property display stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

Thanks for your help on this project. While this post-inject sample is encouraging, we will be obtaining more samples to verify the remedy continues to work. The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, if you have any questions, I can be reached at (920) 453-0700, or the WDNR project manager, Mr. J. Hnat at (414) 263-8644 a call.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Report
Table of Groundwater Results
WDNR Form 4400-249
Figure 1: Well Locations

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS

Pace Project No.: 40181617

Sample: SMW-11 Lab ID: 40181617011 Collected: 12/28/18 10:30 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	0.42J	ug/L	1.0	0.25	1		01/07/19 09:33	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/07/19 09:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/07/19 09:33	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/07/19 09:33	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/07/19 09:33	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/07/19 09:33	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/07/19 09:33	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/07/19 09:33	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/07/19 09:33	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/07/19 09:33	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/07/19 09:33	108-90-7	
Chloroethane	3.9J	ug/L	5.0	1.3	1		01/07/19 09:33	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/07/19 09:33	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/07/19 09:33	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/07/19 09:33	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/07/19 09:33	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/07/19 09:33	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/07/19 09:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/07/19 09:33	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/07/19 09:33	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/07/19 09:33	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/07/19 09:33	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/07/19 09:33	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/07/19 09:33	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/07/19 09:33	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/07/19 09:33	107-06-2	
1,1-Dichloroethene	0.39J	ug/L	1.0	0.24	1		01/07/19 09:33	75-35-4	
cis-1,2-Dichloroethene	76.6	ug/L	1.0	0.27	1		01/07/19 09:33	156-59-2	
trans-1,2-Dichloroethene	2.6J	ug/L	3.6	1.1	1		01/07/19 09:33	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/07/19 09:33	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/07/19 09:33	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/07/19 09:33	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/07/19 09:33	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/07/19 09:33	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/07/19 09:33	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/07/19 09:33	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/07/19 09:33	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/07/19 09:33	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/07/19 09:33	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/07/19 09:33	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/07/19 09:33	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/07/19 09:33	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/07/19 09:33	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/07/19 09:33	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/07/19 09:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/07/19 09:33	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: SMW-11 Lab ID: 40181617011 Collected: 12/28/18 10:30 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/07/19 09:33	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/07/19 09:33	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/07/19 09:33	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/07/19 09:33	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/07/19 09:33	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/07/19 09:33	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/07/19 09:33	79-00-5	
Trichloroethene	0.80J	ug/L	1.0	0.26	1		01/07/19 09:33	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/07/19 09:33	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/07/19 09:33	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/07/19 09:33	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/07/19 09:33	108-67-8	
Vinyl chloride	47.6	ug/L	1.0	0.17	1		01/07/19 09:33	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/07/19 09:33	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/07/19 09:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		01/07/19 09:33	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		01/07/19 09:33	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		01/07/19 09:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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A.1.1
 Groundwater Analytical Table - VOC
 Master Drycleaning, Inc.
 6326 W. Bluemound Rd., Wauwatosa, WI 53213
 BRRTS# 02-41-545142

Sample ID		SMW-11 524 N. 64th Street, Wauwatosa, WI 53213										
Date		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	09/09/08	08/18/09	09/30/15	04/26/16	10/14/16	02/22/17	05/23/17	10/02/17	12/27/18
Groundwater Elevation				678.76	678.13	678.46	679.44	678.24	678.42	679.87	677.84	677.26
Tetrachloroethene (PCE)	(ug/L)	0.5	5	266	205	268	<1.2	269	1.7 J	<0.50	217	<0.33
Trichloroethene (TCE)	(ug/L)	0.5	5	220	133	96.8	<0.83	85.5	3.8	0.61 J	81.7	0.80 J
cis-1,2-Dichloroethene	(ug/L)	7	70	90	57	63.6	126	107	519	79.5	117	76.6
trans-1,2-Dichloroethene	(ug/L)	20	100	<12.2	<12.2	<0.26	7.1	4.0	20.7	2.5	2.5	2.6 J
Vinyl Chloride	(ug/L)	0.02	0.2	<4	<4	77.0	19.1	6.5	8.2	20.8	27.8	47.6
Methylene Chloride	(ug/L)	0.5	5	<19.8	<30	<0.23	<0.58	<0.47	<0.47	<0.23	<0.23	<0.58
Benzene	(ug/L)	0.5	5	<4.8	<8.2	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	0.42 J
Ethylbenzene	(ug/L)	140	700	<7	<17.4	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.22
Toluene	(ug/L)	160	800	<7.8	<10.2	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.17
Xylenes (TOTAL)	(ug/L)	400	2,000	<33.4	<42.6	<1.5	<3.7	<3.0	<3.0	<1.5	<1.50	<0.73
m,p-Xylene	(ug/L)	NS	NS	--	--	<1.0	<2.5	<2.0	<2.0	<1.0	<1.0	<0.47
o-Xylene	(ug/L)	NS	NS	--	--	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.26
Naphthalene	(ug/L)	10	100	<36	<34	<2.5	<6.2	<5.0	<5.0	<2.5	<2.5	<1.2
MTBE	(ug/L)	12	60	<14	<10	<0.17	<0.44	<0.35	<0.35	<0.17	<0.17	<1.2
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	96	480	10.6	<52	<1.0	<2.4	<2.0	<2.0	<1.0	<1.0	<1.71
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	10.6 J	<22	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.84
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	<4.6	<30	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.87
n-Butylbenzene	(ug/L)	NS	NS	<11	<30	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.71
sec-Butylbenzene	(ug/L)	NS	NS	<14.6	<8.6	<2.2	<5.5	<4.4	<4.4	<2.2	<2.2	<0.85
Chloroethane	(ug/L)	80	400	<19.4	<30	<0.37	<0.94	<0.75	<0.75	<0.37	20.0	3.9 J
Chloroform	(ug/L)	0.6	6	<9.4	<9.6	<2.5	<6.2	<5.0	<5.0	<2.5	<2.5	<1.3
Chloromethane	(ug/L)	3	30	<10	<10	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<2.2
2-Chlorotoluene	(ug/L)	NS	NS	<8.2	<7.4	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.93
4-Chlorotoluene	(ug/L)	NS	NS	<6	<12.6	<0.21	<0.53	<0.43	<0.43	<0.21	<0.21	<0.76
1,2-Dibromo-3-chloropropane	(ug/L)	0.02	0.2	<34	<40	<2.2	<5.4	<4.3	<4.3	<2.2	<2.2	<1.8
Dibromochloromethane	(ug/L)	6	60	<8	<15.2	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<2.6
1,2-Dibromoethane (EDB)	(ug/L)	0.005	0.05	<15.2	<10.4	<0.18	<0.44	<0.36	<0.36	<0.18	<0.18	<0.83
Dibromomethane	(ug/L)	NS	NS	--	--	<0.43	<1.1	<0.85	<0.85	<0.43	<0.43	<0.94
1,2-Dichlorobenzene	(ug/L)	60	600	<17.6	<13.2	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.71
1,3-Dichlorobenzene	(ug/L)	120	600	<13.4	<6.8	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.63
1,4-Dichlorobenzene	(ug/L)	15	75	<14.8	<15.4	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.94
Dichlorodifluoromethane	(ug/L)	200	1,000	<15.2	<9	<0.22	<0.56	<0.45	<0.45	<0.22	<0.22	<0.50
1,1-Dichloroethane	(ug/L)	85	850	<11.8	<8.8	<0.24	<0.60	<0.48	<0.48	<0.24	<0.24	<0.27
1,2-Dichloroethane	(ug/L)	0.5	5	<8.2	<8.6	<0.17	<0.42	<0.34	<0.34	<0.17	<0.17	<0.28
1,1-Dichloroethene	(ug/L)	0.7	7	<10	<9.4	<0.41	<1.0	<0.82	<0.82	<0.41	1.3	0.39 J
1,2-Dichloropropane	(ug/L)	0.5	5	<5.4	<5.2	<0.23	<0.58	<0.47	<0.47	<0.23	<0.23	<0.08
Isopropylbenzene	(ug/L)	NS	NS	<12	<7.8	<0.14	<0.36	<0.29	<0.29	<0.14	<0.14	<0.39
p-Isopropyltoluene	(ug/L)	NS	NS	<15.4	<11.4	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.80
n-Propylbenzene	(ug/L)	NS	NS	<10.8	<6.6	<0.50	<1.2	<1.0	<1.0	<0.50	<0.50	<0.81

INJECTION DECEMBER 2015

Notes:
 NS = No standard established
 -- = Not analyzed for parameter
 NR = Not Reported

ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
 BOLD indicates exceedance of NR 140.10 Enforcement Standard

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Master Drycleaning Inc		02-41-545142	
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Master Drycleaning Inc.		State		ZIP Code
Address	City	WI	53213	
6326 Bluemound Road	Wauwatosa			

Contact Person	Phone Number (include area code)
Mr. Harold Shipshock / Tom Shipshock (son)	(414) 313-9168

Person or company that collected samples

Fehr-Graham Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Post-Treatment Routine Monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor

	Yes	No
	Indoor Air	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Fehr-Graham Inc.		Ebbott	Kendrick	
Address		City	State	ZIP Code
909 N. 8th Street, Suite 101		Sheboygan	WI	53081
Phone # (inc. area code)	Email			
(920) 453-0700	Kebott@fehr-graham.com			

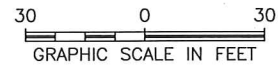
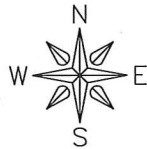
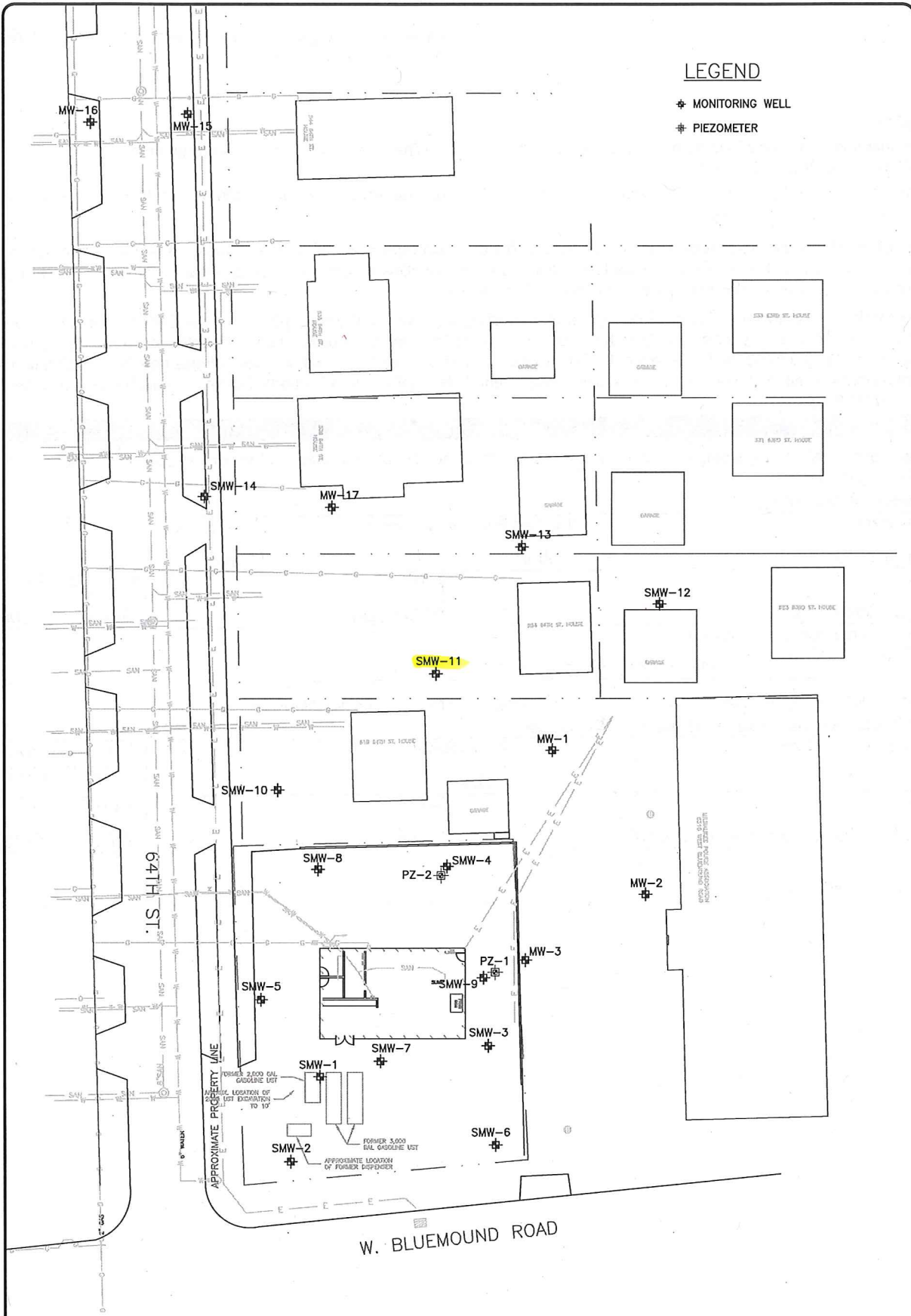
Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Hnat		John	(414) 263-8644	
Address		City	State	ZIP Code
2300 N. Dr. Martin Luther King Jr. Drive		Milwaukee	WI	53212
Email				
John.Hnat@Wisconsin.gov				

LEGEND

- ◆ MONITORING WELL
- ◆ PIEZOMETER



FEHR GRAHAM ILLINOIS IOWA WISCONSIN ENGINEERING & ENVIRONMENTAL	TITLE:	BASE MAP
	MASTER DRYCLEANING INC. 6326 W. BLUEMOUND RD. WAUWATOSA, WI 53213	BRRTS: 02-41-545142 JOB NO.: 15-1209 PLOT DATE: 2/1/19	FIGURE: 1
DRWN: MKH DATE: 01/17/14 APPD: KE	© 2019 FEHR GRAHAM	

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email if Available

Mr. Eric Prigge or Current Property Owner
532 N. 64th Street
Wauwatosa, WI 53213

RE: Results of December 2018 Groundwater and Soil Samples from Monitoring Well MW-13 and MW-17, 532 N. 64th Street, Wauwatosa, Wisconsin, Master Dry Cleaners DERF Site, 6326 West Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Dear Property Owner:

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

An additional monitoring well, MW-17, was installed on your property in 2018. The groundwater chemistry laboratory analytical reports showing the results of the testing from the soil at the new well and the groundwater from both wells on your property are attached. Also attached are tables showing the historic results on the groundwater from your wells and a map showing the well locations for this project.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from your property indicate no detection of any tested compounds. Results from other off-site properties indicate concentrations of PCE and/or related breakdown products may still be present in some of the groundwater off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals.

As shown on the table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested compounds.

February 1, 2019
Fehr Graham
Page 2

The soil and groundwater chemistry results from the monitoring wells on your property have no detectable concentration of any of the tested constituents.

Several of the tested locations display one or more drycleaning related compound in the groundwater at concentrations above the standards, but we expect those levels to continue to decrease over time as the chemicals are further degraded.

When the groundwater from the Master Cleaners site and your property display stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

Thanks for your help on this project. While this post-inject sample is encouraging, we will be obtaining more samples to verify the remedy continues to work. The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, if you have any questions, I can be reached at (920) 453-0700, or the WDNR project manager, Mr. J. Hnat at (414) 263-8644 a call.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Reports
Table of Groundwater Results
WDNR Form 4400-249
Figure 1: Well Locations

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: SMW-13 Lab ID: 40181617013 Collected: 12/28/18 10:20 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 14:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 14:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 14:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 14:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 14:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 14:42	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 14:42	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 14:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 14:42	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 14:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 14:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 14:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 14:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 14:42	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 14:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 14:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 14:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 14:42	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 14:42	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 14:42	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 14:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 14:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 14:42	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 14:42	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 14:42	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 14:42	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/04/19 14:42	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 14:42	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 14:42	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 14:42	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 14:42	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 14:42	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 14:42	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 14:42	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 14:42	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 14:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 14:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 14:42	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 14:42	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 14:42	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 14:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 14:42	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 14:42	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 14:42	630-20-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: SMW-13 Lab ID: 40181617013 Collected: 12/28/18 10:20 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 14:42	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/04/19 14:42	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 14:42	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 14:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 14:42	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 14:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 14:42	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/04/19 14:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 14:42	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 14:42	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 14:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 14:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 14:42	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 14:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 14:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		01/04/19 14:42	460-00-4	
Dibromofluoromethane (S)	83	%	70-130		1		01/04/19 14:42	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		01/04/19 14:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-17 Lab ID: 40181617022 Collected: 12/28/18 10:10 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 12:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 12:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 12:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 12:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 12:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 12:44	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:44	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 12:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 12:44	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 12:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 12:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 12:44	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 12:44	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 12:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 12:44	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 12:44	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 12:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 12:44	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 12:44	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 12:44	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 12:44	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 12:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 12:44	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 12:44	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:44	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 12:44	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/04/19 12:44	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 12:44	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:44	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 12:44	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 12:44	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 12:44	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 12:44	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 12:44	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 12:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 12:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 12:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 12:44	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 12:44	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 12:44	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 12:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 12:44	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 12:44	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 12:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 12:44	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-17 Lab ID: 40181617022 Collected: 12/28/18 10:10 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 12:44	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/04/19 12:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 12:44	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 12:44	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 12:44	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 12:44	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 12:44	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/04/19 12:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 12:44	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 12:44	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 12:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 12:44	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 12:44	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 12:44	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 12:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		01/04/19 12:44	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		01/04/19 12:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		01/04/19 12:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS

Pace Project No.: 40181257

Sample: MW17 (2-4) Lab ID: 40181257006 Collected: 12/18/18 12:25 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 12:28	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 12:28	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 12:28	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 12:28	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 12:28	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	100-42-5	W

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW17 (2-4') Lab ID: 40181257006 Collected: 12/18/18 12:25 Received: 12/19/18 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 12:28	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 12:28	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:28	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-148		1	12/24/18 07:45	12/27/18 12:28	1868-53-7	
Toluene-d8 (S)	110	%	58-142		1	12/24/18 07:45	12/27/18 12:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	48-130		1	12/24/18 07:45	12/27/18 12:28	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.0	%	0.10	0.10	1		12/26/18 14:29		

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW17 (4-6') Lab ID: 40181257005 Collected: 12/18/18 12:30 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 12:05	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 12:05	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 12:05	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 12:05	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 12:05	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW17 (4-6') Lab ID: 40181257005 Collected: 12/18/18 12:30 Received: 12/19/18 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 12:05	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 12:05	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 12:05	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	83	%	57-148		1	12/24/18 07:45	12/27/18 12:05	1868-53-7	
Toluene-d8 (S)	89	%	58-142		1	12/24/18 07:45	12/27/18 12:05	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-130		1	12/24/18 07:45	12/27/18 12:05	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.4	%	0.10	0.10	1		12/26/18 14:29		

REPORT OF LABORATORY ANALYSIS

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Sample ID	Date	MS. 140.10 Preventive Action Limit	MS. 140.10 Enforcement Standard	AW-17
Groundwater Elevation	12/27/18			678.47
Tetrachloroethene (PCE)	(ug/L)	0.5	5	<0.33
Trichloroethene (TCE)	(ug/L)	0.5	5	<0.26
cis-1,2-Dichloroethene	(ug/L)	7	70	<0.27
trans-1,2-Dichloroethene	(ug/L)	20	100	<1.1
Vinyl Chloride	(ug/L)	0.02	0.2	<0.17
Methylene Chloride	(ug/L)	0.5	5	<0.58
Benzene	(ug/L)	0.5	5	<0.25
Ethylbenzene	(ug/L)	140	700	<0.22
Toluene	(ug/L)	160	800	<0.17
Xylenes (TOTAL)	(ug/L)	400	2,000	<0.73
mfp-Xylene	(ug/L)	NS	NS	<0.47
o-Xylene	(ug/L)	NS	NS	<0.26
Naphthalene	(ug/L)	10	100	<1.2
MTBE	(ug/L)	12	60	<1.2
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	95	450	<1.71
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	<0.84
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	<0.87
Bromobenzene	(ug/L)	NS	NS	<0.24
Bromochloromethane	(ug/L)	NS	NS	<0.36
Bromodichloromethane	(ug/L)	0.06	0.6	<0.36
Bromoform	(ug/L)	0.44	4.4	<4.0
Bromomethane	(ug/L)	1	10	<0.97
n-Butylbenzene	(ug/L)	NS	NS	<0.71
sec-Butylbenzene	(ug/L)	NS	NS	<0.85
tert-Butylbenzene	(ug/L)	NS	NS	<0.30
Carbon Tetrachloride	(ug/L)	0.5	5	<0.17
Chlorobenzene	(ug/L)	NS	NS	<0.71
Chloroethane	(ug/L)	80	400	<1.3
Chloroform	(ug/L)	0.6	6	<1.3
Chloromethane	(ug/L)	3	30	<2.2
2-Chlorotoluene	(ug/L)	NS	NS	<0.93
4-Chlorotoluene	(ug/L)	NS	NS	<0.76
1,2-Dibromo-3-chloropropane	(ug/L)	0.02	0.2	<1.8
Dibromochloromethane	(ug/L)	6	60	<2.6
1,2-Dibromoethane (EDB)	(ug/L)	0.005	0.05	<0.83
Dibromomethane	(ug/L)	NS	NS	<0.94
1,2-Dichlorobenzene	(ug/L)	50	500	<0.71
1,3-Dichlorobenzene	(ug/L)	120	600	<0.63
1,4-Dichlorobenzene	(ug/L)	15	75	<0.94
Dichlorodifluoromethane	(ug/L)	200	1,000	<0.50
1,1-Dichloroethane	(ug/L)	85	850	<0.27
1,2-Dichloroethane	(ug/L)	0.5	5	<0.28
1,1-Dichloroethene	(ug/L)	0.7	7	<0.24
1,2-Dichloropropane	(ug/L)	0.5	5	<0.08
1,3-Dichloropropane	(ug/L)	NS	NS	<0.83
2,2-Dichloropropane	(ug/L)	NS	NS	<2.3
1,1-Dichloropropene	(ug/L)	NS	NS	<0.54
cis-1,3-Dichloropropene	(ug/L)	0.04	0.4	<3.6
trans-1,3-Dichloropropene	(ug/L)	0.04	0.4	<4.4
Diisopropyl ether	(ug/L)	NS	NS	<1.9
Hexachloro-1,3-butadiene	(ug/L)	NS	NS	<1.2
Isopropylbenzene	(ug/L)	NS	NS	<0.39
p-Isopropyltoluene	(ug/L)	NS	NS	<0.80
n-Propylbenzene	(ug/L)	NS	NS	<0.81
Styrene	(ug/L)	10	100	<0.47
1,1,1,2-Tetrachloroethane	(ug/L)	7	70	<0.27
1,1,2,2-Tetrachloroethane	(ug/L)	0.02	0.2	<0.28
1,2,3-Trichlorobenzene	(ug/L)	NS	NS	<0.63
1,2,4-Trichlorobenzene	(ug/L)	14	70	<0.95
1,1,1-Trichloroethane	(ug/L)	40	200	<0.24
1,1,2-Trichloroethane	(ug/L)	0.5	5	<0.55
Trichlorofluoromethane	(ug/L)	NS	NS	<0.21
1,2,3-Trichloropropane	(ug/L)	12	60	<0.59

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Master Drycleaning Inc		02-41-545142	
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Master Drycleaning Inc.		State		ZIP Code	
Address		WI		53213	
6326 Bluemound Road		City		Wauwatosa	

Contact Person	Phone Number (include area code)
Mr. Harold Shipshock / Tom Shipshock (son)	(414) 313-9168

Person or company that collected samples

Fehr-Graham Inc.

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Post-Treatment Routine Monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor

	Contaminants in Vapor	
	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Fehr-Graham Inc.		Ebbott	Kendrick	
Address		City	State	ZIP Code
909 N. 8th Street, Suite 101		Sheboygan	WI	53081
Phone # (inc. area code)	Email			
(920) 453-0700	Kebott@fehr-graham.com			

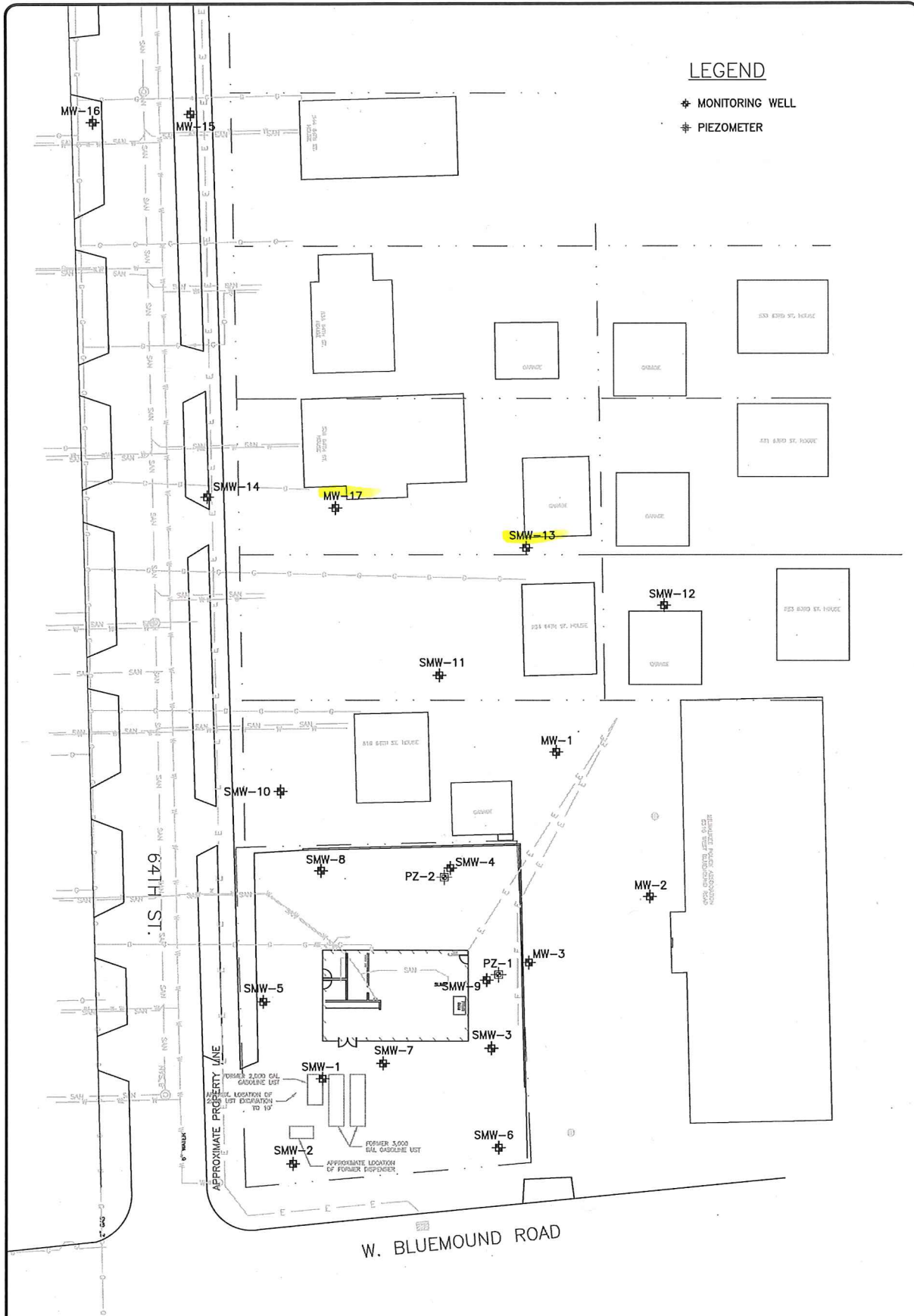
Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name	Phone # (inc. area code)	
Hnat		John	(414) 263-8644	
Address		City	State	ZIP Code
2300 N. Dr. Martin Luther King Jr. Drive		Milwaukee	WI	53212
Email				
John.Hnat@Wisconsin.gov				

LEGEND

- ✦ MONITORING WELL
- ✦ PIEZOMETER



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL

MASTER DRYCLEANING INC.
6326 W. BLUEMOUND RD.
WAUWATOSA, WI 53213

DRWN:MKH DATE:01/17/14 APPD:KE

TITLE:

BASE MAP

BRRTS: 02-41-545142

JOB NO.:15-1209

PLOT DATE: 2/1/19

FIGURE:

1



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email if Available

Mr. Michael Crivello
Milwaukee Police Association
6310 W. Bluemound Rd.
Milwaukee, WI 53213

RE: Results of December 2018 Groundwater Sample from Monitoring Well MW-1, MW-2, and MW-3, 6310 West Bluemound Road, Milwaukee, Wisconsin, Master Dry Cleaners DERF Site, 6326 West Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Dear Property Owner:

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

The groundwater chemistry laboratory analytical report showing the result of the testing from your property is attached. Also attached is a table showing the historic results on the groundwater from your well and a map showing the well locations for this project.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from your property, and other off-site properties, indicate concentrations of PCE and/or related breakdown products may still be present in some of the groundwater off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals.

As shown on the table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested compounds. While several of the tested locations display one or more drycleaning related compounds

in the groundwater at concentrations above the standards, we expect those levels to continue to decrease over time as the chemicals are further degraded.

When the groundwater from the Master Cleaners site and your property display stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

Thanks for your help on this project. While this post-inject sample is encouraging, we will be obtaining more samples to verify the remedy continues to work. The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, if you have any questions, I can be reached at (920) 453-0700, or the WDNR project manager, Mr. J. Hnat at (414) 263-8644 a call.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Report
Table of Groundwater Results
WDNR Form 4400-249
Figure 1: Well Locations

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-1 Lab ID: 40181617017 Collected: 12/28/18 10:40 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 13:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 13:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 13:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 13:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 13:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 13:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 13:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 13:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 13:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 13:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 13:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 13:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 13:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 13:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 13:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 13:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 13:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 13:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 13:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 13:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 13:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 13:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 13:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 13:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 13:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 13:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 13:36	75-35-4	
cis-1,2-Dichloroethene	2.7	ug/L	1.0	0.27	1		01/04/19 13:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 13:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 13:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 13:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 13:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 13:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 13:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 13:36	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 13:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 13:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 13:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 13:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 13:36	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 13:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 13:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 13:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 13:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 13:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 13:36	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: MW-1 Lab ID: 40181617017 Collected: 12/28/18 10:40 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 13:36	79-34-5	
Tetrachloroethene	0.91J	ug/L	1.1	0.33	1		01/04/19 13:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 13:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 13:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 13:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 13:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 13:36	79-00-5	
Trichloroethene	0.42J	ug/L	1.0	0.26	1		01/04/19 13:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 13:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 13:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 13:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 13:36	108-67-8	
Vinyl chloride	1.4	ug/L	1.0	0.17	1		01/04/19 13:36	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 13:36	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 13:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/04/19 13:36	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		01/04/19 13:36	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/04/19 13:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS

Pace Project No.: 40181617

Sample: MW-2 **Lab ID: 40181617018** Collected: 12/28/18 10:45 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 15:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 15:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 15:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 15:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 15:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 15:04	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 15:04	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 15:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 15:04	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 15:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 15:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 15:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 15:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 15:04	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 15:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 15:04	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 15:04	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 15:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 15:04	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 15:04	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 15:04	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 15:04	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 15:04	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 15:04	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 15:04	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 15:04	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 15:04	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/04/19 15:04	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 15:04	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 15:04	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 15:04	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 15:04	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 15:04	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 15:04	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 15:04	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 15:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 15:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 15:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 15:04	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 15:04	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 15:04	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 15:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 15:04	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 15:04	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 15:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 15:04	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-2 Lab ID: 40181617018 Collected: 12/28/18 10:45 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 15:04	79-34-5	
Tetrachloroethene	2.7	ug/L	1.1	0.33	1		01/04/19 15:04	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 15:04	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 15:04	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 15:04	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 15:04	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 15:04	79-00-5	
Trichloroethene	1.4	ug/L	1.0	0.26	1		01/04/19 15:04	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 15:04	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 15:04	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 15:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 15:04	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 15:04	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 15:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 15:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		01/04/19 15:04	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		01/04/19 15:04	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/04/19 15:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-3 Lab ID: 40181617019 Collected: 12/28/18 10:50 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.49	ug/L	2.0	0.49	2		01/04/19 17:17	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		01/04/19 17:17	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		01/04/19 17:17	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		01/04/19 17:17	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		01/04/19 17:17	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		01/04/19 17:17	74-83-9	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		01/04/19 17:17	104-51-8	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		01/04/19 17:17	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		01/04/19 17:17	98-06-6	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		01/04/19 17:17	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		01/04/19 17:17	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		01/04/19 17:17	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		01/04/19 17:17	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		01/04/19 17:17	74-87-3	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		01/04/19 17:17	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		01/04/19 17:17	106-43-4	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		01/04/19 17:17	96-12-8	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		01/04/19 17:17	124-48-1	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		01/04/19 17:17	106-93-4	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		01/04/19 17:17	74-95-3	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		01/04/19 17:17	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		01/04/19 17:17	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		01/04/19 17:17	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		01/04/19 17:17	75-71-8	
1,1-Dichloroethane	<0.55	ug/L	2.0	0.55	2		01/04/19 17:17	75-34-3	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		01/04/19 17:17	107-06-2	
1,1-Dichloroethene	<0.49	ug/L	2.0	0.49	2		01/04/19 17:17	75-35-4	
cis-1,2-Dichloroethene	51.1	ug/L	2.0	0.54	2		01/04/19 17:17	156-59-2	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		01/04/19 17:17	156-60-5	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		01/04/19 17:17	78-87-5	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		01/04/19 17:17	142-28-9	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		01/04/19 17:17	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		01/04/19 17:17	563-58-6	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		01/04/19 17:17	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		01/04/19 17:17	10061-02-6	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		01/04/19 17:17	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		01/04/19 17:17	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		01/04/19 17:17	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		01/04/19 17:17	98-82-8	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		01/04/19 17:17	99-87-6	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		01/04/19 17:17	75-09-2	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		01/04/19 17:17	1634-04-4	
Naphthalene	<2.4	ug/L	10.0	2.4	2		01/04/19 17:17	91-20-3	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		01/04/19 17:17	103-65-1	
Styrene	<0.93	ug/L	3.1	0.93	2		01/04/19 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		01/04/19 17:17	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: MW-3 Lab ID: 40181617019 Collected: 12/28/18 10:50 Received: 01/03/19 14:45 Matrix: Water

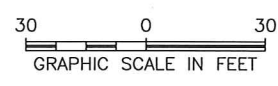
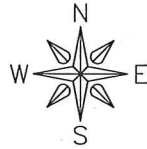
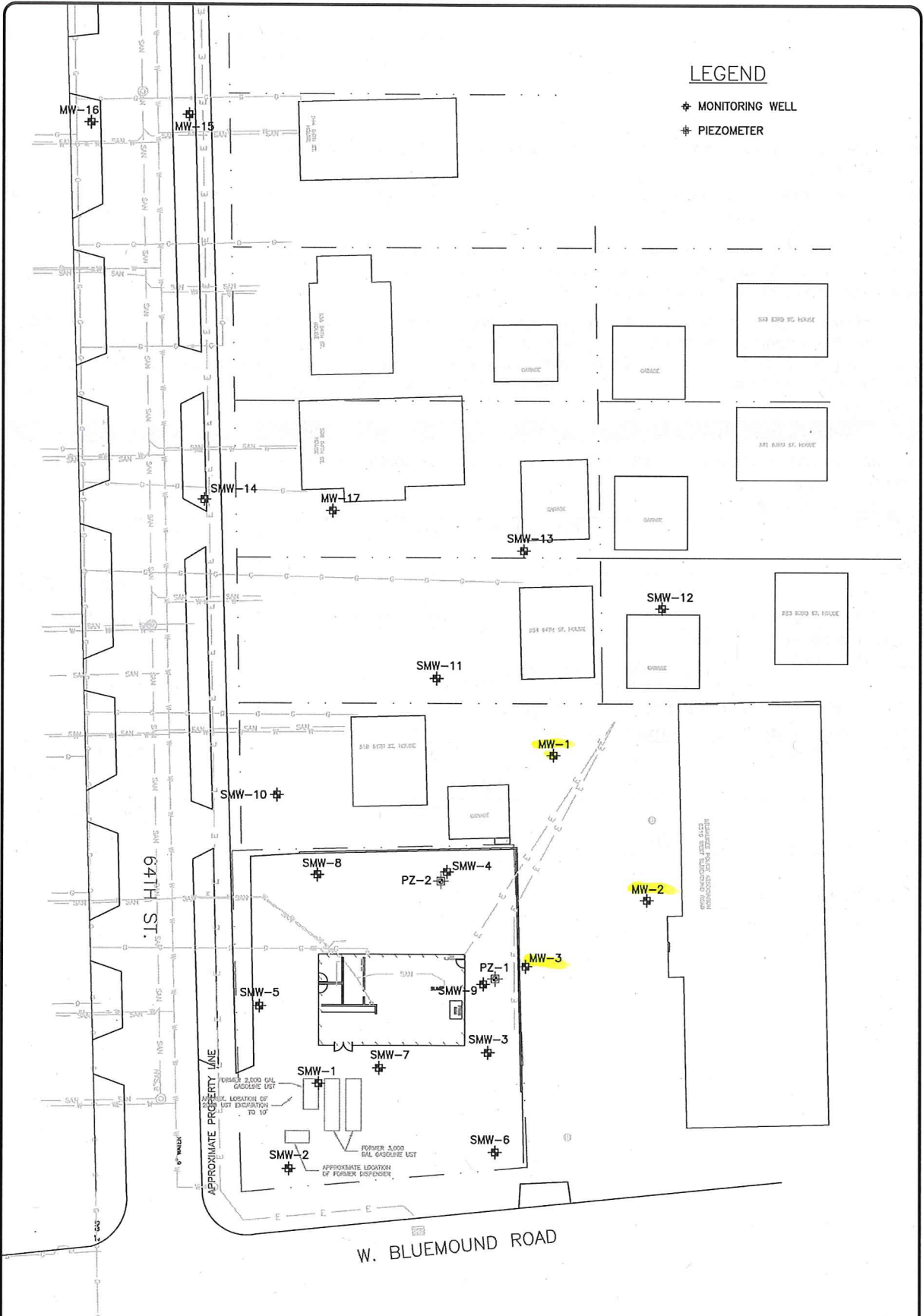
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		01/04/19 17:17	79-34-5	
Tetrachloroethene	209	ug/L	2.2	0.65	2		01/04/19 17:17	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		01/04/19 17:17	108-88-3	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		01/04/19 17:17	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		01/04/19 17:17	120-82-1	
1,1,1-Trichloroethane	<0.49	ug/L	2.0	0.49	2		01/04/19 17:17	71-55-6	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		01/04/19 17:17	79-00-5	
Trichloroethene	25.6	ug/L	2.0	0.51	2		01/04/19 17:17	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		01/04/19 17:17	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		01/04/19 17:17	96-18-4	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		01/04/19 17:17	95-63-6	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		01/04/19 17:17	108-67-8	
Vinyl chloride	17.3	ug/L	2.0	0.35	2		01/04/19 17:17	75-01-4	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		01/04/19 17:17	179601-23-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		01/04/19 17:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		2		01/04/19 17:17	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		2		01/04/19 17:17	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2		01/04/19 17:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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LEGEND

- ✦ MONITORING WELL
- ✦ PIEZOMETER



<p>FEHR GRAHAM ENGINEERING & ENVIRONMENTAL</p>	<p>ILLINOIS IOWA WISCONSIN</p>	<p>TITLE: BASE MAP</p>
	<p>MASTER DRYCLEANING INC. 6326 W. BLUEMOUND RD. WAUWATOSA, WI 53213</p>	<p>BRRTS: 02-41-545142 JOB NO.: 15-1209 PLOT DATE: 2/1/19</p>	FIGURE: 1
<p>DRWN: MKH DATE: 01/17/14 APPD: KE</p>	<p>© 2019 FEHR GRAHAM</p>	

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name		Contact Person Last Name	First Name	
Fehr-Graham Inc.		Ebbott	Kendrick	
Address		City	State	ZIP Code
909 N. 8th Street, Suite 101		Sheboygan	WI	53081
Phone # (inc. area code)	Email			
(920) 453-0700	Kebott@fehr-graham.com			

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Hnat		John		(414) 263-8644	
Address		City	State	ZIP Code	
2300 N. Dr. Martin Luther King Jr. Drive		Milwaukee	WI	53212	
Email					
John.Hnat@Wisconsin.gov					

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information			
Site Name		DNR ID # (BRRTS #)	
Master Drycleaning Inc		02-41-545142	
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213

Responsible Party			
The person(s) responsible for completing this environmental investigation is:			
Property Owner			
Master Drycleaning Inc.			
Address	City	State	ZIP Code
6326 Bluemound Road	Wauwatosa	WI	53213
Contact Person		Phone Number (include area code)	
Mr. Harold Shipshock / Tom Shipshock (son)		(414) 313-9168	
Person or company that collected samples			
Fehr-Graham Inc.			

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Post-Treatment Routine Monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

	Contaminants in Vapor	
	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

February 1, 2019

Sent by Mail and Email to dhitt@wauwatosa.net

Dear Hitt, Engineering Services
City of Wauwatosa
7725 W. North Ave.
Wauwatosa, WI 53213

RE: Results of December 2018 Soil and Groundwater Samples from Monitoring Wells MW-14, MW-15, and MW-16, City of Wauwatosa - Right of Way, Wauwatosa, Wisconsin, Master Dry Cleaners DERF Site, 6326 West Bluemound Road, Wauwatosa, WI, BRRTS # 02-41-545142

Fehr Graham, 909 N. 8th St., Ste 101 Sheboygan, Wisconsin (Sheboygan County) has been hired by Master Dry Cleaners (Mr. Harold Shipshock) to complete additional environmental investigation and remediation activities at the Master Dry Cleaners property referenced above.

As noted previously, a release of the drycleaning solvent, tetrachloroethene (PCE) has been documented from the Master Cleaners property. Injection of chemicals that accelerate the degradation of PCE took place on the Master Cleaners property in early December 2015. A soil excavation at the source was also completed in March of 2017.

We obtained permission to install soil borings and monitoring wells in the City of Wauwatosa Right of Way, and borings MW-15 and MW-16 were installed and sampled in 2018. Well MW-14 had previously been installed and sampled in the right of way, and groundwater was sampled from well MW-14 in December 2018. Copies of the soil and groundwater chemistry laboratory analytical reports from these locations are attached. Also attached is a table showing the historic results on the groundwater from well MW-14 and a map showing all well locations.

The Wisconsin Department of Natural Resources (WDNR) approved remediation strategy includes treatment of the groundwater on the Master Cleaners property, followed by monitoring of the groundwater over time from the site monitoring well network. The chemicals will continue to degrade the PCE at the injected area near the Master Cleaners building and more testing will be performed later this year.

The results from the right of way, and other off-site properties, indicate concentrations of PCE and/or related breakdown products may still be present off-site to the north, northeast, and northwest of the Master Cleaners site. That is the direction of groundwater flow beneath the site. However, the concentration of the spilled compound, PCE, has dropped significantly on the Property since the injection took place. Some locations display a slight increase of some of the breakdown products of PCE, such as dichloroethene. At other off-site locations, previously detected compounds are no longer present at all and the groundwater is free of the spilled chemicals.

As shown on the groundwater chemistry table, comparison to the enforcement standards of Wisconsin Administrative Code NR 140 are shown by bold type for the various tested

compounds. At well 14 and 16, the level of one or more drycleaning related compounds in the groundwater exceed the state standards. Soil and groundwater samples from well 15 displays no detection of any VOCs.

We would like to discuss with you any information you might have regarding the sanitary sewer line that runs beneath 64th Street, such as whether there are any plans for utility improvements, or video coverage documenting the integrity of the utilities in this area.

When the groundwater from the Master Cleaners site and other properties displays stable or declining concentrations of contaminants in groundwater over time, WDNR closure for the project can be pursued.

The next round of groundwater samples to evaluate effectiveness will take place later this year. When we get the next round of results from your property, another update displaying the findings will be provided.

In the meantime, please contact me at your convenience at (920) 453-0700 to discuss the findings in more detail. If you want, you can also contact the WDNR project manager, Mr. J. Hnat at (414) 263-8644.

Sincerely,



Kendrick A. Ebbott, P.G.
Branch Manager

Attachment: Laboratory Reports
Tables of Groundwater Results
Figure 1: Well Locations

ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS

Pace Project No.: 40181617

Sample: SMW-14 Lab ID: 40181617014 Collected: 12/28/18 10:15 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	6.8J	ug/L	10.0	2.5	10		01/07/19 09:55	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		01/07/19 09:55	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		01/07/19 09:55	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		01/07/19 09:55	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		01/07/19 09:55	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		01/07/19 09:55	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		01/07/19 09:55	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		01/07/19 09:55	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		01/07/19 09:55	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		01/07/19 09:55	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		01/07/19 09:55	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		01/07/19 09:55	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		01/07/19 09:55	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		01/07/19 09:55	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		01/07/19 09:55	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		01/07/19 09:55	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		01/07/19 09:55	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		01/07/19 09:55	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		01/07/19 09:55	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		01/07/19 09:55	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		01/07/19 09:55	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		01/07/19 09:55	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		01/07/19 09:55	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		01/07/19 09:55	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		01/07/19 09:55	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		01/07/19 09:55	107-06-2	
1,1-Dichloroethene	5.4J	ug/L	10.0	2.4	10		01/07/19 09:55	75-35-4	
cis-1,2-Dichloroethene	232	ug/L	10.0	2.7	10		01/07/19 09:55	156-59-2	
trans-1,2-Dichloroethene	11.0J	ug/L	36.4	10.9	10		01/07/19 09:55	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		01/07/19 09:55	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		01/07/19 09:55	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		01/07/19 09:55	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		01/07/19 09:55	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		01/07/19 09:55	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		01/07/19 09:55	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		01/07/19 09:55	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		01/07/19 09:55	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		01/07/19 09:55	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		01/07/19 09:55	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		01/07/19 09:55	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		01/07/19 09:55	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		01/07/19 09:55	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		01/07/19 09:55	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		01/07/19 09:55	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		01/07/19 09:55	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		01/07/19 09:55	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: SMW-14 Lab ID: 40181617014 Collected: 12/28/18 10:15 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		01/07/19 09:55	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		01/07/19 09:55	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		01/07/19 09:55	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		01/07/19 09:55	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		01/07/19 09:55	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		01/07/19 09:55	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		01/07/19 09:55	79-00-5	
Trichloroethene	<2.6	ug/L	10.0	2.6	10		01/07/19 09:55	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		01/07/19 09:55	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		01/07/19 09:55	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		01/07/19 09:55	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		01/07/19 09:55	108-67-8	
Vinyl chloride	828	ug/L	10.0	1.7	10		01/07/19 09:55	75-01-4	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		01/07/19 09:55	179601-23-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		01/07/19 09:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		10		01/07/19 09:55	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		10		01/07/19 09:55	1868-53-7	
Toluene-d8 (S)	104	%	70-130		10		01/07/19 09:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-15 Lab ID: 40181617020 Collected: 12/28/18 10:05 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 16:33	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 16:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 16:33	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 16:33	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 16:33	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 16:33	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 16:33	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 16:33	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 16:33	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 16:33	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 16:33	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 16:33	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 16:33	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 16:33	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 16:33	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 16:33	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 16:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 16:33	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 16:33	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 16:33	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 16:33	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 16:33	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 16:33	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 16:33	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 16:33	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 16:33	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/04/19 16:33	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 16:33	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 16:33	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 16:33	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 16:33	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 16:33	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 16:33	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 16:33	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 16:33	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 16:33	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 16:33	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 16:33	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 16:33	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 16:33	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 16:33	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 16:33	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 16:33	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 16:33	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-15 Lab ID: 40181617020 Collected: 12/28/18 10:05 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 16:33	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/04/19 16:33	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 16:33	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 16:33	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 16:33	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 16:33	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 16:33	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/04/19 16:33	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 16:33	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 16:33	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 16:33	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 16:33	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 16:33	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 16:33	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 16:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/04/19 16:33	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		01/04/19 16:33	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		01/04/19 16:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
Pace Project No.: 40181617

Sample: MW-16 Lab ID: 40181617021 Collected: 12/28/18 10:00 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/04/19 11:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/04/19 11:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/04/19 11:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/04/19 11:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/04/19 11:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/04/19 11:57	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 11:57	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/04/19 11:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/04/19 11:57	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/04/19 11:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 11:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/04/19 11:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/04/19 11:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/04/19 11:57	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/04/19 11:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/04/19 11:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/04/19 11:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/04/19 11:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/04/19 11:57	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/04/19 11:57	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/04/19 11:57	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/04/19 11:57	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/04/19 11:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/04/19 11:57	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 11:57	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 11:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/04/19 11:57	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.27	1		01/04/19 11:57	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/04/19 11:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/04/19 11:57	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/04/19 11:57	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/04/19 11:57	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/04/19 11:57	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/04/19 11:57	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/04/19 11:57	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/04/19 11:57	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/04/19 11:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/04/19 11:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/04/19 11:57	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/04/19 11:57	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/04/19 11:57	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/04/19 11:57	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/04/19 11:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/04/19 11:57	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/04/19 11:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/04/19 11:57	630-20-6	

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ANALYTICAL RESULTS

Project: 15-1209 MASTER CLEANERS
 Pace Project No.: 40181617

Sample: MW-16 Lab ID: 40181617021 Collected: 12/28/18 10:00 Received: 01/03/19 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/04/19 11:57	79-34-5	
Tetrachloroethene	102	ug/L	1.1	0.33	1		01/04/19 11:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/04/19 11:57	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/04/19 11:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/04/19 11:57	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/04/19 11:57	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/04/19 11:57	79-00-5	
Trichloroethene	5.2	ug/L	1.0	0.26	1		01/04/19 11:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/04/19 11:57	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/04/19 11:57	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/04/19 11:57	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/04/19 11:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/04/19 11:57	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/04/19 11:57	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/04/19 11:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		01/04/19 11:57	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		01/04/19 11:57	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/04/19 11:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW 15 (2-4') Lab ID: 40181257001 Collected: 12/18/18 10:00 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 00:47	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 00:47	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 00:47	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 00:47	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 00:47	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	100-42-5	W

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
 Pace Project No.: 40181257

Sample: MW 15 (2-4') Lab ID: 40181257001 Collected: 12/18/18 10:00 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 00:47	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 00:47	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 00:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	57-148		1	12/24/18 07:45	12/27/18 00:47	1868-53-7	
Toluene-d8 (S)	95	%	58-142		1	12/24/18 07:45	12/27/18 00:47	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	12/24/18 07:45	12/27/18 00:47	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.9	%	0.10	0.10	1		12/19/18 16:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS

Pace Project No.: 40181257

Sample: MW 15 (6-8') Lab ID: 40181257002 Collected: 12/18/18 10:05 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 10:55	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 10:55	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 10:55	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 10:55	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 10:55	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	100-42-5	W

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
 Pace Project No.: 40181257

Sample: MW 15 (6-8') Lab ID: 40181257002 Collected: 12/18/18 10:05 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 10:55	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 10:55	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 10:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	12/24/18 07:45	12/27/18 10:55	1868-53-7	
Toluene-d8 (S)	109	%	58-142		1	12/24/18 07:45	12/27/18 10:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-130		1	12/24/18 07:45	12/27/18 10:55	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.2	%	0.10	0.10	1		12/19/18 16:13		

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS

Pace Project No.: 40181257

Sample: MW16 (2-4') Lab ID: 40181257003 Collected: 12/18/18 11:10 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 11:18	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 11:18	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 11:18	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 11:18	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 11:18	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	100-42-5	W

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
 Pace Project No.: 40181257

Sample: MW16 (2-4') Lab ID: 40181257003 Collected: 12/18/18 11:10 Received: 12/19/18 09:20 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 11:18	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 11:18	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-148		1	12/24/18 07:45	12/27/18 11:18	1868-53-7	
Toluene-d8 (S)	105	%	58-142		1	12/24/18 07:45	12/27/18 11:18	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-130		1	12/24/18 07:45	12/27/18 11:18	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.9	%	0.10	0.10	1		12/19/18 16:13		

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW16 (8-10') Lab ID: 40181257004 Collected: 12/18/18 11:15 Received: 12/19/18 09:20 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/24/18 07:45	12/27/18 11:41	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/24/18 07:45	12/27/18 11:41	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	12/24/18 07:45	12/27/18 11:41	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/24/18 07:45	12/27/18 11:41	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/24/18 07:45	12/27/18 11:41	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	100-42-5	W

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ANALYTICAL RESULTS

Project: 15-1304 MASTER CLEANERS
Pace Project No.: 40181257

Sample: MW16 (8-10') Lab ID: 40181257004 Collected: 12/18/18 11:15 Received: 12/19/18 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	79-34-5	W
Tetrachloroethene	2340	ug/kg	69.8	29.1	1	12/24/18 07:45	12/27/18 11:41	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/24/18 07:45	12/27/18 11:41	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/24/18 07:45	12/27/18 11:41	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/24/18 07:45	12/27/18 11:41	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	57-148		1	12/24/18 07:45	12/27/18 11:41	1868-53-7	
Toluene-d8 (S)	116	%	58-142		1	12/24/18 07:45	12/27/18 11:41	2037-26-5	
4-Bromofluorobenzene (S)	108	%	48-130		1	12/24/18 07:45	12/27/18 11:41	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.1	%	0.10	0.10	1		12/19/18 16:13		

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TABLE A.2.1
 Soil Analytical Results Table - VOC
 Non-Industrial Direct Contact Standards
 Master Drycleaning, Inc.
 6326 W. Bluemound Rd., Wauwatosa, WI 53213
 BRRTS# 02-41-545142

501

Sample ID	Date	Depth	Description	DEPTH to Seasonal Low Water Table (ft BGS)	Saturated (S) or Unsaturated (U)	PID Reading	Soil Remaining	Notes	Groundwater Pathway RCL	Industrial Direct-Contact (0-4') RCL (ug/kg)	Non-Industrial Direct-Contact RCL	MW-15 12/18/18		MW-16 12/18/18	
												2-4'	6-8'	2-4'	8-10'
												8-10'	8-10'	8-9'	8-9'
Tetrachloroethene (PCE)	(ug/kg)	4.54	145,000	33,000	<25.0	<25.0	<25.0	2,340							
Trichloroethene (TCE)	(ug/kg)	3.58	8,410	1,300	<25.0	<25.0	<25.0	<25.0							
cis-1,2-Dichloroethene	(ug/kg)	41.2	2,340,000	156,000	<25.0	<25.0	<25.0	<25.0							
trans-1,2-Dichloroethene	(ug/kg)	58.8	1,860,000	1,560,000	<25.0	<25.0	<25.0	<25.0							
Vinyl Chloride	(ug/kg)	0.138	2,080	67	<25.0	<25.0	<25.0	<25.0							
Methylene Chloride	(ug/kg)	2.56	1,150,000	61,800	<25.0	<25.0	<25.0	<25.0							
Benzene	(ug/kg)	5.12	7,070	1,600	<25.0	<25.0	<25.0	<25.0							
Ethylbenzene	(ug/kg)	1,570	35,400	8,020	<25.0	<25.0	<25.0	<25.0							
Toluene	(ug/kg)	1,110	818,000	818,000	<25.0	<25.0	<25.0	<25.0							
Xylenes (TOTAL)	(ug/kg)	3,940	778,000	260,000	<75.0	<75.0	<75.0	<75.0							
m,p-Xylene	(ug/kg)	NS	434,000	778,000	<50.0	<50.0	<50.0	<50.0							
o-Xylene	(ug/kg)	NS	260,000	434,000	<25.0	<25.0	<25.0	<25.0							
Naphthalene	(ug/kg)	658	24,100	5,520	<40.0	<40.0	<40.0	<40.0							
MTBE	(ug/kg)	27	282,000	63,800	<25.0	<25.0	<25.0	<25.0							
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	1,380	219,000	NS	<50.0	<50.0	<50.0	<50.0							
1,2,4-Trimethylbenzene	(ug/kg)	NS	182,000	219,000	<25.0	<25.0	<25.0	<25.0							
1,3,5-Trimethylbenzene	(ug/kg)	NS	NS	182,000	<25.0	<25.0	<25.0	<25.0							
Bromobenzene	(ug/kg)	NS	679,000	342,000	<25.0	<25.0	<25.0	<25.0							
Bromochloromethane	(ug/kg)	NS	906,000	216,000	<25.0	<25.0	<25.0	<25.0							
Bromodichloromethane	(ug/kg)	0.326	1,830	418	<25.0	<25.0	<25.0	<25.0							
Bromoform	(ug/kg)	2.33	113,000	25,400	<25.0	<25.0	<25.0	<25.0							
Bromomethane	(ug/kg)	5.06	43,000	9,600	<69.9	<69.9	<69.9	<69.9							
n-Butylbenzene	(ug/kg)	NS	108,000	108,000	<25.0	<25.0	<25.0	<25.0							
sec-Butylbenzene	(ug/kg)	NS	145,000	145,000	<25.0	<25.0	<25.0	<25.0							
tert-Butylbenzene	(ug/kg)	NS	183,000	183,000	<25.0	<25.0	<25.0	<25.0							
Carbon Tetrachloride	(ug/kg)	3.88	4,030	916	<25.0	<25.0	<25.0	<25.0							
Chlorobenzene	(ug/kg)	NS	761,000	370,000	<25.0	<25.0	<25.0	<25.0							
Chloroethane (ethyl chloride)	(ug/kg)	227	2,121,000	2,120,000	<67.0	<67.0	<67.0	<67.0							
Chloroform	(ug/kg)	3.33	1,980	454	<46.4	<46.4	<46.4	<46.4							
Chloromethane	(ug/kg)	15.5	669,000	159,000	<25.0	<25.0	<25.0	<25.0							
2-Chlorotoluene	(ug/kg)	NS	907,000	907,000	<25.0	<25.0	<25.0	<25.0							
4-Chlorotoluene	(ug/kg)	NS	253,000	253,000	<25.0	<25.0	<25.0	<25.0							
1,2-Dibromo-3-chloropropane	(ug/kg)	0.173	92	8	<91.2	<91.2	<91.2	<91.2							
Dibromochloromethane	(ug/kg)	32	38,900	8,280	<25.0	<25.0	<25.0	<25.0							
1,2-Dibromoethane (EDB)	(ug/kg)	0.0282	221	50	<25.0	<25.0	<25.0	<25.0							
Dibromomethane	(ug/kg)	NS	143,000	34,000	<25.0	<25.0	<25.0	<25.0							
1,2-Dichlorobenzene	(ug/kg)	1,170	376,000	376,000	<25.0	<25.0	<25.0	<25.0							
1,3-Dichlorobenzene	(ug/kg)	1,150	297,000	297,000	<25.0	<25.0	<25.0	<25.0							
1,4-Dichlorobenzene	(ug/kg)	144	16,400	3,740	<25.0	<25.0	<25.0	<25.0							
Dichlorodifluoromethane	(ug/kg)	3,090	530,000	126,000	<25.0	<25.0	<25.0	<25.0							
1,1-Dichloroethane	(ug/kg)	483	22,200	5,060	<25.0	<25.0	<25.0	<25.0							
1,2-Dichloroethane	(ug/kg)	2.84	2,870	652	<25.0	<25.0	<25.0	<25.0							
1,1-Dichloroethene	(ug/kg)	5.02	1,190	320,000	<25.0	<25.0	<25.0	<25.0							
1,2-Dichloropropane	(ug/kg)	3.32	1,780	406	<25.0	<25.0	<25.0	<25.0							
1,3-Dichloropropane	(ug/kg)	NS	1,490,000	1,490,000	<25.0	<25.0	<25.0	<25.0							
2,2-Dichloropropane	(ug/kg)	NS	191,000	191,000	<25.0	<25.0	<25.0	<25.0							
1,1-Dichloropropene	(ug/kg)	NS	NS	NS	<25.0	<25.0	<25.0	<25.0							
cis-1,3-Dichloropropene	(ug/kg)	0.286	1,220,000	1,220,000	<25.0	<25.0	<25.0	<25.0							
trans-1,3-Dichloropropene	(ug/kg)	0.286	1,510,000	1,510,000	<25.0	<25.0	<25.0	<25.0							
Diisopropyl ether	(ug/kg)	NS	2,260,000	2,260,000	<25.0	<25.0	<25.0	<25.0							
Hexachloro-1,3-butadiene	(ug/kg)	NS	7,450	1,630	<25.0	<25.0	<25.0	<25.0							
Isopropylbenzene	(ug/kg)	NS	268,000	268,000	<25.0	<25.0	<25.0	<25.0							
p-Isopropyltoluene	(ug/kg)	NS	162,000	162,000	<25.0	<25.0	<25.0	<25.0							
n-Propylbenzene	(ug/kg)	NS	264,000	264,000	<25.0	<25.0	<25.0	<25.0							
Styrene	(ug/kg)	220	867,000	867,000	<25.0	<25.0	<25.0	<25.0							
1,1,1,2-Tetrachloroethane	(ug/kg)	53.4	12,300	2,780	<25.0	<25.0	<25.0	<25.0							
1,1,2,2-Tetrachloroethane	(ug/kg)	0.156	3,600	810	<25.0	<25.0	<25.0	<25.0							
1,2,3-Trichlorobenzene	(ug/kg)	NS	934,000	62,600	<25.0	<25.0	<25.0	<25.0							
1,2,4-Trichlorobenzene	(ug/kg)	408	113,000	24,000	<47.6	<47.6	<47.6	<47.6							
1,1,1-Trichloroethane	(ug/kg)	140	640,000	640,000	<25.0	<25.0	<25.0	<25.0							
1,1,2-Trichloroethane	(ug/kg)	3.24	7,010	1,590	<25.0	<25.0	<25.0	<25.0							
Trichlorofluoromethane	(ug/kg)	NS	1,230,000	1,120,000	<25.0	<25.0	<25.0	<25.0							
1,2,3-Trichloropropane	(ug/kg)	51.9	109	5	<25.0	<25.0	<25.0	<25.0							
No. of Individual Exceedances (DC)					--	--	--	--							
Cumulative Hazard Index (DC)			≤1.0		--	--	--	--							
Cumulative Cancer Risk (DC)			1.00E-05		--	--	--	--							

Exceedance Highlights:
 BOLD Red font indicates DC RCL exceedance per DNR RCL calculator 7/14/14, and BTV exceedance for metals. *BT*: Cumulative exceedance (HI > 1), even though no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance per DHR RCL calculator 7/14/14.
 Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

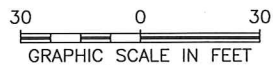
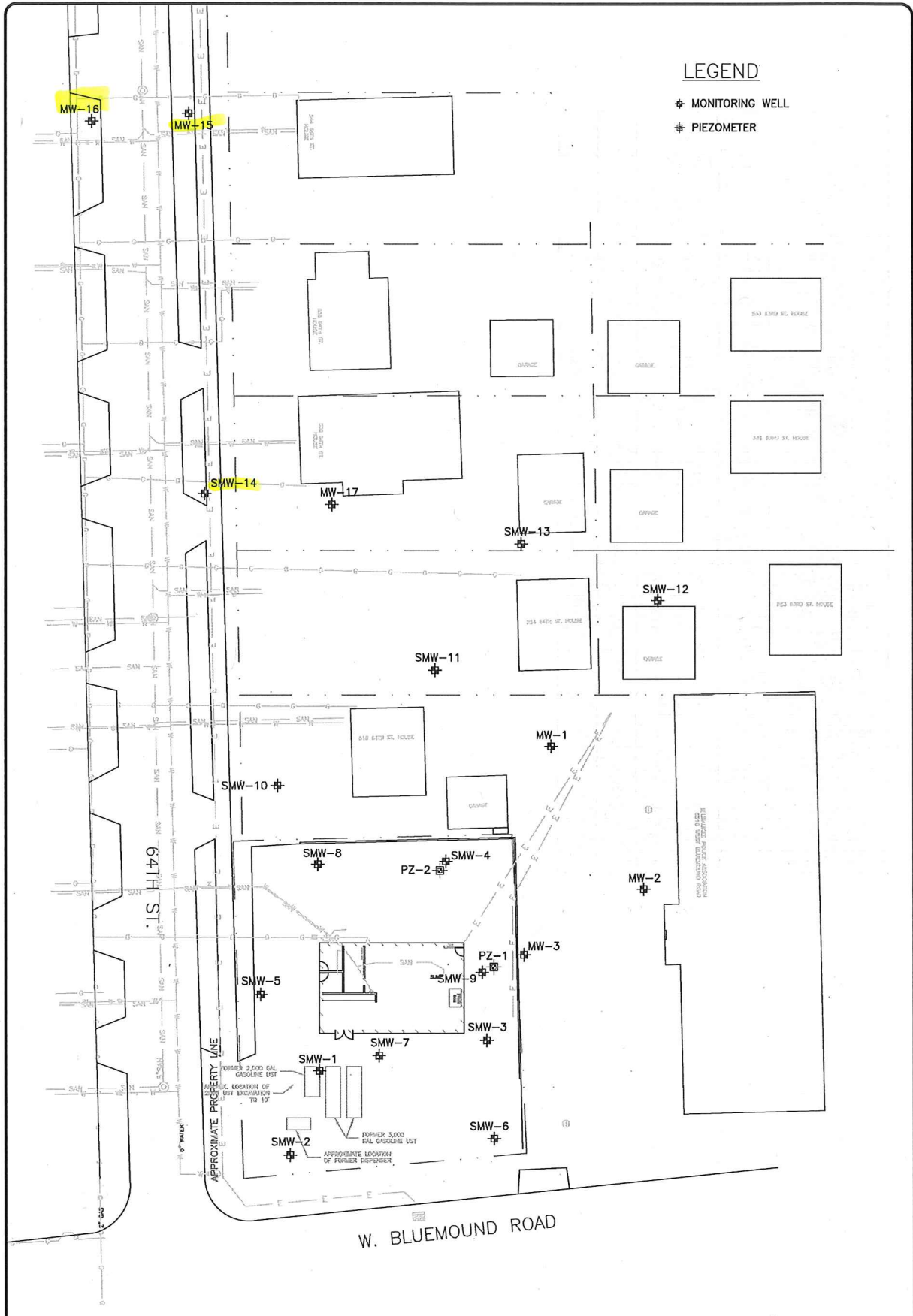
Notes:
 NS = No standard established
 -- = Not analyzed or reported for parameter

Sample ID	Date	Groundwater Elevation	MR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	SHW-14: In Eastern ROW 64th Street at 532 N 64th St. Wauwatosa, WI							
					08/18/09	09/30/15	04/26/16	10/14/16	02/22/17	05/23/17	10/02/17	12/27/18
					677.27	677.48	678.56	677.41	677.59	678.89	677.05	677.98
Tetrachloroethene (PCE)	(ug/L)	0.5	5	<2.1	-0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<3.3	
Trichloroethene (TCE)	(ug/L)	0.5	5	<1.95	-0.33	<0.66	<0.66	0.88 J	3.0	<0.83	<2.6	
cis-1,2-Dichloroethene	(ug/L)	7	70	151	652	282	443	269	387	356	232	
trans-1,2-Dichloroethene	(ug/L)	20	100	15.5	35.4	14.9	26.8	13.0	19.0	23.3	11.0 J	
Vinyl Chloride	(ug/L)	0.02	0.2	32	38.6	22.3	178	87.3	564	253	828	
Methylene Chloride	(ug/L)	0.5	5	<7.5	-0.23	<0.47	<0.47	<0.47	<0.47	<0.58	<5.8	
Benzene	(ug/L)	0.5	5	<2.05	-0.50	<1.0	<1.0	2.1	12.9	<1.2	6.8 J	
Ethylbenzene	(ug/L)	140	700	<4.35	-0.50	<1.0	<1.0	<1.0	1.1 J	<1.2	<2.2	
Toluene	(ug/L)	160	800	<2.55	-0.50	<1.0	<1.0	<1.0	1.9 J	<1.2	<1.7	
Xylenes (TOTAL)	(ug/L)	400	2,000	<10.65	<1.5	<3.0	<3.0	<3.0	<3.0	<3.7	7.3	
mEp-Xylene	(ug/L)	NS	NS	..	<1.0	<2.0	<2.0	<2.0	<2.0	<2.5	<4.7	
o-Xylene	(ug/L)	NS	NS	..	<0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<2.6	
Naphthalene	(ug/L)	10	100	<8.5	<2.5	<5.0	<5.0	<5.0	<5.0	<6.2	<11.8	
MTBE	(ug/L)	12	60	<2.5	-0.17	<0.35	<0.35	<0.35	<0.35	<0.44	<12.5	
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	96	480	<13	<1.0	<2.0	<2.0	1.2	1.2	<2.4	<17.1	
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	<5.5	-0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<8.4	
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	<7.5	-0.50	<1.0	<1.0	<1.0	1.2 J	<1.2	<8.7	
n-Butylbenzene	(ug/L)	NS	NS	<7.5	-0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<7.1	
sec-Butylbenzene	(ug/L)	NS	NS	<2.15	-2.2	<4.4	<4.4	<4.4	<4.4	<5.5	<8.5	
Chloroethane	(ug/L)	80	400	<7.5	-0.37	<0.75	<0.75	<0.75	<0.75	<0.94	<13.4	
Chloroform	(ug/L)	0.6	6	<2.4	-2.5	<5.0	<5.0	<5.0	<5.0	<6.2	<12.7	
1,2-Dichloroethane	(ug/L)	0.5	5	<2.15	0.49 J	<0.34	<0.34	<0.34	<0.34	<0.42	<2.8	
1,1-Dichloroethane	(ug/L)	0.7	7	<2.35	2.6	<0.82	2.7	1.8 J	6.7	3.9	5.4 J	
1,2-Dichloropropane	(ug/L)	0.5	5	<1.3	-0.23	<0.47	<0.47	<0.47	<0.47	<0.58	<2.8	
Isopropylbenzene	(ug/L)	NS	NS	<1.95	-0.14	<0.29	<0.29	<0.29	<0.29	<0.36	<3.9	
p-Isopropyltoluene	(ug/L)	NS	NS	<2.85	-0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<8.0	
n-Propylbenzene	(ug/L)	NS	NS	<1.65	-0.50	<1.0	<1.0	<1.0	<1.0	<1.2	<8.1	

INJECTION: DECEMBER 2015

LEGEND

- ⊕ MONITORING WELL
- ⊕ PIEZOMETER



FEHR GRAHAM ILLINOIS KOWA WISCONSIN ENGINEERING & ENVIRONMENTAL	TITLE:	BASE MAP
	MASTER DRYCLEANING INC. 626 W. BLUEMOUND RD. WAUWATOSA, WI 53213 DRWN:MKH DATE:01/17/14 APPD:KE	BRRTS: 02-41-545142 JOB NO.: 15-1209 PLOT DATE: 2/1/19	FIGURE: 1

Sample ID	Date	Groundwater Elevation	NR 140-10 Preventive Action Limit	NR 440-10 Enforcement Standard	MW-15	MW-16
					12/27/18	12/27/18
					678.01	677.73
Tetrachloroethene (PCE)	(ug/L)	0.5	5		<0.33	102
Trichloroethene (TCE)	(ug/L)	0.5	5		<0.26	5.2
cis-1,2-Dichloroethene	(ug/L)	7	70		<0.27	1.3
trans-1,2-Dichloroethene	(ug/L)	20	100		<1.1	<1.1
Vinyl Chloride	(ug/L)	0.02	0.2		<0.17	<0.17
Methylene Chloride	(ug/L)	0.5	5		<0.58	<0.58
Benzene	(ug/L)	0.5	5		<0.25	<0.25
Ethylbenzene	(ug/L)	140	700		<0.22	<0.22
Toluene	(ug/L)	160	800		<0.17	<0.17
Xylenes (TOTAL)	(ug/L)	400	2,000		<0.73	<0.73
m,p-Xylene	(ug/L)	NS	NS		<0.47	<0.47
o-Xylene	(ug/L)	NS	NS		<0.26	<0.26
Naphthalene	(ug/L)	10	100		<1.2	<1.2
HTB	(ug/L)	12	60		<1.2	<1.2
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	96	480		<1.71	<1.71
1,2,4-Trimethylbenzene	(ug/L)	NS	NS		<0.84	<0.84
1,3,5-Trimethylbenzene	(ug/L)	NS	NS		<0.87	<0.87
Bromobenzene	(ug/L)	NS	NS		<0.24	<0.24
Bromochloromethane	(ug/L)	NS	NS		<0.36	<0.36
Bromodichloromethane	(ug/L)	0.05	0.6		<0.36	<0.36
Bromofom	(ug/L)	0.44	4.4		<4.0	<4.0
Bromomethane	(ug/L)	1	10		<0.97	<0.97
n-Butylbenzene	(ug/L)	NS	NS		<0.71	<0.71
sec-Butylbenzene	(ug/L)	NS	NS		<0.85	<0.85
tert-Butylbenzene	(ug/L)	NS	NS		<0.30	<0.30
Carbon Tetrachloride	(ug/L)	0.5	5		<0.17	<0.17
Chlorobenzene	(ug/L)	NS	NS		<0.71	<0.71
Chloroethane	(ug/L)	80	400		<1.3	<1.3
Chloroform	(ug/L)	0.6	6		<1.3	<1.3
Chloromethane	(ug/L)	3	30		<2.2	<2.2
2-Chlorotoluene	(ug/L)	NS	NS		<0.93	<0.93
4-Chlorotoluene	(ug/L)	NS	NS		<0.76	<0.76
1,2-Dibromo-3-chloropropane	(ug/L)	0.02	0.2		<1.8	<1.8
Dibromochloromethane	(ug/L)	6	60		<2.6	<2.6
1,2-Dibromoethane (EDB)	(ug/L)	0.005	0.05		<0.83	<0.83
Dibromomethane	(ug/L)	NS	NS		<0.94	<0.94
1,2-Dichlorobenzene	(ug/L)	60	600		<0.71	<0.71
1,3-Dichlorobenzene	(ug/L)	120	600		<0.63	<0.63
1,4-Dichlorobenzene	(ug/L)	15	75		<0.94	<0.94
Dichlorodifluoromethane	(ug/L)	200	1,000		<0.50	<0.50
1,1-Dichloroethane	(ug/L)	85	850		<0.27	<0.27
1,2-Dichloroethane	(ug/L)	0.5	5		<0.28	<0.28
1,1-Dichloroethene	(ug/L)	0.7	7		<0.24	<0.24
1,2-Dichloropropane	(ug/L)	0.5	5		<0.08	<0.08
1,3-Dichloropropane	(ug/L)	NS	NS		<0.83	<0.83
2,2-Dichloropropane	(ug/L)	NS	NS		<2.3	<2.3
1,1-Dichloropropene	(ug/L)	NS	NS		<0.54	<0.54
cis-1,3-Dichloropropene	(ug/L)	0.04	0.4		<3.6	<3.6
trans-1,3-Dichloropropene	(ug/L)	0.04	0.4		<4.4	<4.4
Diisopropyl ether	(ug/L)	NS	NS		<1.9	<1.9
Hexachloro-1,3-butadiene	(ug/L)	NS	NS		<1.2	<1.2
Isopropylbenzene	(ug/L)	NS	NS		<0.39	<0.39
p-Isopropyltoluene	(ug/L)	NS	NS		<0.80	<0.80
n-Propylbenzene	(ug/L)	NS	NS		<0.81	<0.81
Styrene	(ug/L)	10	100		<0.47	<0.47
1,1,1,2-Tetrachloroethane	(ug/L)	7	70		<0.27	<0.27
1,1,1,2,2-Tetrachloroethane	(ug/L)	0.02	0.2		<0.28	<0.28
1,1,3-Trichlorobenzene	(ug/L)	NS	NS		<0.63	<0.63
1,2,4-Trichlorobenzene	(ug/L)	14	70		<0.95	<0.95
1,1,1-Trichloroethane	(ug/L)	40	200		<0.24	<0.24
1,1,2-Trichloroethane	(ug/L)	0.5	5		<0.55	<0.55
Trichlorofluoromethane	(ug/L)	NS	NS		<0.21	<0.21
1,2,3-Trichloropropane	(ug/L)	12	60		<0.59	<0.59