

Table 1. Analytical Results for Groundwater Samples - Volatile Organic Compounds
Delphi - Plant 2, Saginaw, Michigan
December 2004

Analyte	GSI	FAV	Offsite Monitoring Wells				
			MW04-118S1 12/17/2004	MW04-122WT 12/17/2004	MW04-122S1 12/17/2004	MW04-123WT 12/17/2004	MW-04-123WT Duplicate
1,1,1,2-Tetrachloroethane	ID	ID	50 U	1 U	100 U	200 U	200 U
1,1,1-Trichloroethane	200	1,600	50 U	1 U	100 U	200 U	200 U
1,1,2,2-Tetrachloroethane	78	1,800	50 U	1 U	100 U	200 U	200 U
1,1,2-Trichloroethane	330	5,600	50 U	1 U	100 U	200 U	200 U
1,1-Dichloroethane	740	13,000	50 U	1 U	100 U	200 U	200 U
1,1-Dichloroethene	65	2,300	50 U	1 U	100 U	200 U	200 U
1,2,3-Trichlorobenzene	NC	NC	300 U	5 U	500 U	1,000 U	1,000 U
1,2,3-Trichloropropane	NC	NC	50 U	1 U	100 U	200 U	200 U
1,2,4-Trichlorobenzene	30	200	300 U	5 U	500 U	1,000 U	1,000 U
1,2,4-Trimethylbenzene	17	310	50 U	6	100 U	200 U	200 U
1,2-Dibromo-3-chloropropane	NC	NC	300 U	5 U	500 U	1,000 U	1,000 U
1,2-Dibromoethane	NC	ID	50 U	1 U	100 U	200 U	200 U
1,2-Dichlorobenzene	16	240	60	1 U	100 U	200 U	200 U
1,2-Dichloroethane	360	15,000	50 U	1 U	100 U	200 U	200 U
1,2-Dichloropropane	290	4,000	50 U	1 U	100 U	200 U	200 U
1,3,5-Trimethylbenzene	45	810	50 U	1 U	100 U	200 U	200 U
1,3-Dichlorobenzene	38	200	50 U	1 U	100 U	200 U	200 U
1,4-Dichloro-2-butene	NC	NC	300 U	5 U	500 U	1,000 U	1,000 U
1,4-Dichlorobenzene	13	200	50 U	2	100 U	200 U	200 U
2-Butanone (MEK)	2,200	40,000	1,000 U	30 U	3,000 U	5,000 U	5,000 U
2-Hexanone	NA	ID	3,000 U	50 U	5,000 U	10,000 U	10,000 U
2-Methylnaphthalene	ID	ID	300 U	5 U	500 U	1,000 U	1,000 U
4-Methyl-2-pentanone (MIBK)	ID	ID	3,000 U	50 U	5,000 U	10,000 U	10,000 U
Acetone	1,700	30,000	1,000 U	30 U	3,000 U	5,000 U	5,000 U
Acrylonitrile	4.9	1,200	300 U	5 U	500 U	1,000 U	1000 U
Benzene	200	1,800	50 U	17	100 U	200 U	200 U
Bromobenzene	NC	NC	50 U	1 U	100 U	200 U	200 U
Bromochloromethane	NC	ID	50 U	1 U	100 U	200 U	200 U
Bromodichloromethane	ID	NC	50 U	1 U	100 U	200 U	200 U
Bromoform	ID	ID	50 U	1 U	100 U	200 U	200 U
Bromomethane	35	640	300 U	5 U	500 U	1,000 U	1,000 U
Carbon disulfide	ID	ID	300 U	5 U	500 U	1,000 U	1,000 U
Carbon tetrachloride	45	1,600	50 U	1 U	100 U	200 U	200 U
Chlorobenzene	47	850	190	82	100	200 U	200 U
Chloroethane	ID	20,000	300 U	5 U	500 U	1,000 U	1,000 U
Chloroform	170	2,600	50 U	1 U	100 U	200 U	200 U
Chloromethane	ID	ID	300 U	5 U	500 U	1,000 U	1,000 U
cis-1,2-Dichloroethene	620	11,000	850	162	2,100	10,500	10,100
cis-1,3-Dichloropropene	NC	NC	50 U	1 U	100 U	200 U	200 U
Dibromochloromethane	ID	ID	50 U	1 U	100 U	200 U	200 U
Dibromomethane	NC	NC	50 U	1 U	100 U	200 U	200 U
Dichlorodifluoromethane	NC	ID	300 U	5 U	500 U	1,000 U	1,000 U
Diethyl ether	ID	NC	300 U	5 U	500 U	1,000 U	1,000 U
Ethylbenzene	18	320	190	42	400	200 U	200 U
Hexachloroethane	6.7	140	300 U	5 U	500 U	1,000 U	1,000 U
Isopropylbenzene	ID	ID	50 U	15	100 U	200 U	200 U
Methyl iodide	NC	NC	50 U	1 U	100 U	200 U	200 U
Methylene chloride	940	17,000	300 U	5 U	500 U	1,000 U	1,000 U
Naphthalene	13	200	300 U	5 U	500 U	1,000 U	1,000 U
n-Butylbenzene	ID	ID	50 U	7	100 U	200 U	200 U
n-Propylbenzene	ID	ID	50 U	18	100 U	200 U	200 U
o-Xylene	280	630	50 U	10	100	200 U	200 U
p,m-Xylene	280	630	100 U	71	700	400 U	400 U
p-Isopropyltoluene	ID	ID	50 U	1 U	100 U	200 U	200 U
sec-Butylbenzene	ID	ID	50 U	3	100 U	200 U	200 U
Styrene	80	2,900	50 U	1 U	100 U	200 U	200 U
tert-Butylbenzene	ID	ID	50 U	1 U	100 U	200 U	200 U
tert-Methyl butyl ether (MTBE)	730	13,000	300 U	5 U	500 U	1,000 U	1,000 U
Tetrachloroethene	45	2,900	50 U	1 U	100 U	200 U	200 U
Tetrahydrofuran	11,000	150,000	5,000 U	100 U	10,000 U	20,000 U	20,000 U
Toluene	140	1,700	60	6	200	200 U	200 U
trans-1,2-Dichloroethene	1,500	28,000	50 U	1	100 U	200 U	200 U
trans-1,3-Dichloropropene	NC	NC	50 U	1 U	100 U	200 U	200 U
Trichloroethene	200	3,500	50 U	1 U	100 U	200 U	200 U
Trichlorofluoromethane	NC	NC	50 U	1 U	100 U	200 U	200 U
Vinyl chloride	15	17,000	8,250	226	6,500	30,600	35,300

Concentrations reported in micrograms per liter (ug/L)

U - The analyte was not detected above the indicated reporting limit.

FAV - Final Acute Value, Rule 57 Water Quality Values (MDEQ Table, November 2004)

GSI - Groundwater surface water interface cleanup criteria (MDEQ Part 201, December 2004)

NC - No criterion

ID - Insufficient data to develop criterion

Results that exceed criteria are boxed and bolded.

Results that exceed FAVs are boxed, bolded, and shaded.

Table 1. Analytical Results for Groundwater Samples - Volatile Organic Compounds
Delphi - Plant 2, Saginaw, Michigan
December 2004

Analyte	Offsite Monitoring Wells					
	GSI	FAV	MW04-123S1 12/17/2004	MW04-124WT 12/17/2004	MW04-124S1 12/17/2004	MW-129WT 12/17/2004
1,1,1,2-Tetrachloroethane	ID	ID	50 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200	1,600	50 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	78	1,800	50 U	1 U	1 U	1 U
1,1,2-Trichloroethane	330	5,600	50 U	1 U	1 U	1 U
1,1-Dichloroethane	740	13,000	50 U	1 U	1 U	1 U
1,1-Dichloroethene	65	2,300	50 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NC	NC	300 U	5 U	5 U	5 U
1,2,3-Trichloropropane	NC	NC	50 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	30	200	300 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	17	310	50 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	NC	NC	300 U	5 U	5 U	5 U
1,2-Dibromoethane	NC	ID	50 U	1 U	1 U	1 U
1,2-Dichlorobenzene	16	240	50 U	1 U	1 U	1 U
1,2-Dichloroethane	360	15,000	50 U	1 U	1 U	1 U
1,2-Dichloropropane	290	4,000	50 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	45	810	50 U	1 U	1 U	1 U
1,3-Dichlorobenzene	38	200	50 U	1 U	1 U	1 U
1,4-Dichloro-2-butene	NC	NC	300 U	5 U	5 U	5 U
1,4-Dichlorobenzene	13	200	50 U	1 U	1 U	1 U
2-Butanone (MEK)	2,200	40,000	1,000 U	30 U	30 U	30 U
2-Hexanone	NA	ID	3,000 U	50 U	50 U	50 U
2-Methylnaphthalene	ID	ID	300 U	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	ID	ID	3,000 U	50 U	50 U	50 U
Acetone	1,700	30,000	1,000 U	30 U	30 U	30 U
Acrylonitrile	4.9	1,200	300 U	5 U	5 U	5 U
Benzene	200	1,800	50 U	1 U	1 U	1 U
Bromobenzene	NC	NC	50 U	1 U	1 U	1 U
Bromochloromethane	NC	ID	50 U	1 U	1 U	1 U
Bromodichloromethane	ID	NC	50 U	1 U	1 U	1 U
Bromoform	ID	ID	50 U	1 U	1 U	1 U
Bromomethane	35	640	300 U	5 U	5 U	5 U
Carbon disulfide	ID	ID	300 U	5 U	5 U	5 U
Carbon tetrachloride	45	1,600	50 U	1 U	1 U	1 U
Chlorobenzene	47	850	50 U	1	1 U	1 U
Chloroethane	ID	20,000	300 U	5 U	5 U	5 U
Chloroform	170	2,600	50 U	1 U	1 U	1 U
Chloromethane	ID	ID	300 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	620	11,000	1,780	2	1 U	1 U
cis-1,3-Dichloropropene	NC	NC	50 U	1 U	1 U	1 U
Dibromochloromethane	ID	ID	50 U	1 U	1 U	1 U
Dibromomethane	NC	NC	50 U	1 U	1 U	1 U
Dichlorodifluoromethane	NC	ID	300 U	5 U	5 U	5 U
Diethyl ether	ID	NC	300 U	5 U	5 U	5 U
Ethylbenzene	18	320	50 U	1	1 U	1 U
Hexachloroethane	6.7	140	300 U	5 U	5 U	5 U
Isopropylbenzene	ID	ID	50 U	1 U	1 U	1 U
Methyl iodide	NC	NC	50 U	1 U	1 U	1 U
Methylene chloride	940	17,000	300 U	5 U	5 U	5 U
Naphthalene	13	200	300 U	5 U	5 U	5 U
n-Butylbenzene	ID	ID	50 U	1 U	1 U	1 U
n-Propylbenzene	ID	ID	50 U	1 U	1 U	1 U
o-Xylene	280	630	50 U	1 U	1 U	1 U
p,m-Xylene	280	630	100 U	2	2 U	2 U
p-Isopropyltoluene	ID	ID	50 U	1 U	1 U	1 U
sec-Butylbenzene	ID	ID	50 U	1 U	1 U	1 U
Styrene	80	2,900	50 U	1 U	1 U	1 U
tert-Butylbenzene	ID	ID	50 U	1 U	1 U	1 U
tert-Methyl butyl ether (MTBE)	730	13,000	300 U	5 U	5 U	5 U
Tetrachloroethene	45	2,900	50 U	1 U	1 U	1 U
Tetrahydrofuran	11,000	150,000	5,000 U	100 U	100 U	100 U
Toluene	140	1,700	50 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1,500	28,000	50 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	NC	50 U	1 U	1 U	1 U
Trichloroethene	200	3,500	50 U	1 U	1 U	1 U
Trichlorofluoromethane	NC	NC	50 U	1 U	1 U	1 U
Vinyl chloride	15	17,000	7,350	6	12	1 U

Concentrations reported in micrograms per liter (ug/L)

U - The analyte was not detected above the indicated reporting limit.

FAV - Final Acute Value, Rule 57 Water Quality Values (MDEQ Table, November 2004)

GSI - Groundwater surface water interface cleanup criteria (MDEQ Part 201, December 21)

NC - No criterion

ID - Insufficient data to develop criterion

Results that exceed criteria are boxed and bolded.

Results that exceed FAVs are boxed, bolded, and shaded.

Table 1. Analytical Results for Groundwater Samples - Volatile Organic Compounds
Delphi - Plant 2, Saginaw, Michigan
December 2004

Analyte	Quality Control Samples				
	GSI	FAV	MW-200	MW-201	MW-202
			Equip. Blank	Equip. Blank	Equip. Blank
1,1,1,2-Tetrachloroethane	ID	ID	1 U	1 U	1 U
1,1,1-Trichloroethane	200	1,600	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	78	1,800	1 U	1 U	1 U
1,1,2-Trichloroethane	330	5,600	1 U	1 U	1 U
1,1-Dichloroethane	740	13,000	1 U	1 U	1 U
1,1-Dichloroethene	65	2,300	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NC	NC	5 U	5 U	5 U
1,2,3-Trichloropropane	NC	NC	1 U	1 U	1 U
1,2,4-Trichlorobenzene	30	200	5 U	5 U	5 U
1,2,4-Trimethylbenzene	17	310	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	NC	NC	5 U	5 U	5 U
1,2-Dibromoethane	NC	ID	1 U	1 U	1 U
1,2-Dichlorobenzene	16	240	1 U	1 U	1 U
1,2-Dichloroethane	360	15,000	1 U	1 U	1 U
1,2-Dichloropropane	290	4,000	1 U	1 U	1 U
1,3,5-Trimethylbenzene	45	810	1 U	1 U	1 U
1,3-Dichlorobenzene	38	200	1 U	1 U	1 U
1,4-Dichloro-2-butene	NC	NC	5 U	5 U	5 U
1,4-Dichlorobenzene	13	200	1 U	1 U	1 U
2-Butanone (MEK)	2,200	40,000	30 U	30 U	30 U
2-Hexanone	NA	ID	50 U	50 U	50 U
2-Methylnaphthalene	ID	ID	5 U	5 U	5 U
4-Methyl-2-pentanone (MIBK)	ID	ID	50 U	50 U	50 U
Acetone	1,700	30,000	30 U	30 U	30 U
Acrylonitrile	4.9	1,200	5 U	5 U	5 U
Benzene	200	1,800	1 U	1 U	1 U
Bromobenzene	NC	NC	1 U	1 U	1 U
Bromochloromethane	NC	ID	1 U	1 U	1 U
Bromodichloromethane	ID	NC	1 U	1 U	1 U
Bromoform	ID	ID	1 U	1 U	1 U
Bromomethane	35	640	5 U	5 U	5 U
Carbon disulfide	ID	ID	5 U	5 U	5 U
Carbon tetrachloride	45	1,600	1 U	1 U	1 U
Chlorobenzene	47	850	1 U	1 U	1 U
Chloroethane	ID	20,000	5 U	5 U	5 U
Chloroform	170	2,600	1 U	1 U	1 U
Chloromethane	ID	ID	5 U	5 U	5 U
cis-1,2-Dichloroethene	620	11,000	1 U	2	1 U
cis-1,3-Dichloropropene	NC	NC	1 U	1 U	1 U
Dibromochloromethane	ID	ID	1 U	1 U	1 U
Dibromomethane	NC	NC	1 U	1 U	1 U
Dichlorodifluoromethane	NC	ID	5 U	5 U	5 U
Diethyl ether	ID	NC	5 U	5 U	5 U
Ethylbenzene	18	320	1 U	1 U	1 U
Hexachloroethane	6.7	140	5 U	5 U	5 U
Isopropylbenzene	ID	ID	1 U	1 U	1 U
Methyl iodide	NC	NC	1 U	1 U	1 U
Methylene chloride	940	17,000	5 U	5 U	5 U
Naphthalene	13	200	5 U	5 U	5 U
n-Butylbenzene	ID	ID	1 U	1 U	1 U
n-Propylbenzene	ID	ID	1 U	1 U	1 U
o-Xylene	280	630	1 U	1 U	1 U
p,m-Xylene	280	630	2 U	2 U	2 U
p-Isopropyltoluene	ID	ID	1 U	1 U	1 U
sec-Butylbenzene	ID	ID	1 U	1 U	1 U
Styrene	80	2,900	1 U	1 U	1 U
tert-Butylbenzene	ID	ID	1 U	1 U	1 U
tert-Methyl butyl ether (MTBE)	730	13,000	5 U	5 U	5 U
Tetrachloroethene	45	2,900	1 U	1 U	1 U
Tetrahydrofuran	11,000	150,000	100 U	100 U	100 U
Toluene	140	1,700	1 U	1 U	1 U
trans-1,2-Dichloroethene	1,500	28,000	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	NC	1 U	1 U	1 U
Trichloroethene	200	3,500	1 U	1 U	1 U
Trichlorofluoromethane	NC	NC	1 U	1 U	1 U
Vinyl chloride	15	17,000	1 U	1 U	1 U

Concentrations reported in micrograms per liter (ug/L)

U - The analyte was not detected above the indicated reporting limit.

FAV - Final Acute Value, Rule 57 Water Quality Values (MDEQ Table, November 2004)

GSI - Groundwater surface water interface cleanup criteria (MDEQ Part 201, December

NC - No criterion

ID - Insufficient data to develop criterion

Results that exceed criteria are boxed and bolded.

Results that exceed FAVs are boxed, bolded, and shaded.

Table 2. Analytical Results for Groundwater Samples - General Water Quality Parameters
Delphi - Plant 2, Saginaw, Michigan
December 2004

	GSI	FAV	MW-04-01WT 12/15/2004	MW-04-01D 12/15/2004	MW-04-11 12/15/2004	MW-200S 12/15/2004	MW-200D 12/15/2004	MW-201S 12/15/2004	MW-201D 12/15/2004	MW201D Duplicate	MW-97-102WT 12/15/2004
Hydroxide as CaCO ₃	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbonate Alkalinity	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Alkalinity as CaCO ₃	NC	NC	371	309	465	557	527	511	732	713	573
Bicarbonate Alkalinity	NC	NC	371	309	465	557	527	511	732	713	573
Ammonia-N	NC	NC	4.5	4.1	0.1 U	0.9	0.4	1.0	0.8	0.8	6.5
un-ionized Ammonia*	0.029	0.32	0.18	0.164		0.036	0.016	0.04	0.032	0.032	0.26
Nitrate-N	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrite-N	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloride	50	NC	342	4100	114	368	236	201	431	433	63
Sulfate	NC	NC	22	13	25	25	38	33	19	17	20
Total Phosphorus	1	NC	0.21	0.02	0.02 U	0.41	0.10	0.25	0.17	0.14	0.37
Total Dissolved Solids	500	NC	990	7403	676	1141	963	896	1545	1552	768
Calcium	NC	NC	62.1	620	145	157	118	150	184	182	27.7
Iron	NC	NC	2.22	27.1	2.72	7.71	3.84	9.61	14.1	18.0	0.83
Magnesium	NC	NC	22.9	160	44.7	31.0	23.1	29.2	49.9	47.8	12.2
Potassium	NC	NC	39.4	6.1	4.42	10.8	10.1	11.8	1.51	1.65	28.0
Sodium	NC	NC	259	1810	63.4	290	247	155	351	339	247

Concentrations reported in milligrams per liter (mg/L).

U - The analyte was not detected above the indicated reporting limit.

FAV - Final Acute Value, Rule 57 Water Quality Values (MDEQ Table, November 2004)

GSI - Groundwater/surface water interface cleanup criteria (MDEQ Part 201, December 2004)

NC - No criterion

Results that exceed the GSI criterion are boxed and bolded.

* Calculated; un-ionized ammonia concentration is 4% of the ammonia concentration reported by the laboratory.