The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 7: Storm Sewer and Surface Water VOC Results (June 2004 - December 2004)

ANALYTE	DC INFLOW 2004-08-17 SW A4H180231018 µg/L	DC INFLOW 2004-12-20 SW A4L230115009 µg/L	DC OUTFLOW 2004-08-17 SW A4H180231019 µg/L	DC OUTFLOW 2004-12-20 SW A4L230115010 µg/L	WR OUTFALL 2004-08-16 SW A4H170141006 µg/L	WR OUTFALL 2004-09-01 SW A4I020164008 µg/L	WR OUTFALL 2004-09-01 SWRERAN A4I020164008 µg/L
1,1,1,2-TETRACHLOROETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,1,1-TRICHLOROETHANE	< 1	< 1	< 1	< 1	< 25	< 29	1.5 J
1,1,2,2-TETRACHLOROETHANE	< 1	< 1	< 1	< 1	19 J	30	25
1,1,2-TRICHLOROETHANE	< 1	< 1	< 1	< 1	< 25	< 29	3.2
1,1-DICHLOROETHANE	< 1	< 1	< 1	< 1	< 25	8.6 J	8.2
1,1-DICHLOROETHENE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,2,3-TRICHLOROPROPANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
1,2-DIBROMOETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,2-DICHLOROETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,2-DICHLOROETHENE (TOTAL)	< 2	< 2	< 2	< 2	670	760	760 E
1,2-DICHLOROPROPANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
1,4-DIOXANE	< 50	< 50	< 50	< 50	2000	1500	1900
2-BUTANONE	4.2 J	< 10	< 10	< 10	< 250	< 290	< 29
2-HEXANONE	< 10	< 10	< 10	< 10	< 250	< 290	< 29
3-CHLOROPROPENE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
4-METHYL-2-PENTANONE	1.2 J	< 10	< 10	< 10	< 250	< 290	7 J
ACETONE	29	< 10	2.4 J	0.83 J	400	410	410 E
ACETONITRILE	< 20	< 20	140	< 20	< 500	< 570	54 J
ACROLEIN	< 20	< 20	< 20	< 20	< 500	< 570	< 57
ACRYLONITRILE	< 20	< 20	< 20	< 20	< 500	< 570	< 57
BENZENE	< 1	< 1	< 1	< 1	170 B	170	170 E
BROMODICHLOROMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
BROMOFORM	< 1	< 1	1.6	< 1	< 25	< 29	2.3 J
BROMOMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
CARBON DISULFIDE	< 1	< 1	< 1	< 1	< 25	< 29	1.3 J
CARBON TETRACHLORIDE	< 1	< 1	< 1	< 1	< 25	< 29	2.2 J
CHLOROBENZENE	< 1	< 1	< 1	< 1	37	45	48
CHLOROETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
CHLOROFORM	< 1	< 1	< 1	< 1	22 J	54	51
CHLOROMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
CHLOROPRENE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
CIS-1,2-DICHLOROETHENE	< 1	< 1	< 1	0.22 J	670	760	750 E
CIS-1,3-DICHLOROPROPENE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
DIBROMOCHLOROMETHANE	< 1	< 1	0.31 J	< 1	< 25	< 29	< 2.9
DIBROMOMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
DICHLOROFLUOROMETHANE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
ETHYL METHACRYLATE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
ETHYLBENZENE	< 1	< 1	< 1	< 1	140	160	190 E
IODOMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
ISOBUTANOL	< 50	< 50	< 50	< 50	< 1200	< 1400	< 140
METHACRYLONITRILE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
METHYL METHACRYLATE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
METHYLENE CHLORIDE	< 1	< 1	< 1	< 1	69 B	< 29	3.8
PROPIONITRILE	< 4	< 4	< 4	< 4	< 100	< 110	< 11
STYRENE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
TETRACHLOROETHENE	< 1	< 1	< 1	< 1	19 J	39	37
TOLUENE	< 1	< 1	< 1	0.36 J	580	700	400 E
TRANS-1,2-DICHLOROETHENE	< 1	< 1	< 1	< 1	< 25	4.9 J	5.5
TRANS-1,3-DICHLOROPROPENE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
TRANS-1,4-DICHLORO-2-BUTENE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
TRICHLOROETHENE	< 1	< 1	< 1	< 1	30	48	49
TRICHLOROFLUOROMETHANE	< 1	< 1	< 1	< 1	< 25	< 29	< 2.9
VINYL ACETATE	< 2	< 2	< 2	< 2	< 50	< 57	< 5.7
VINYL CHLORIDE	< 1	< 1	< 1	< 1	18 J	21 J	23
XYLENES (TOTAL)	1.5 J	< 2	1.5 J	< 2	680	900	890 E

Blank Cell=Not Analyzed
See data validation memo for definitions of data qualifiers
VOCs = Volatile Organic Compounds
SW = Surface Water
QDUP = Duplicate Sample
RERAN = Laboratory Reanalyzed Sample
µg/L = micrograms per liter

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TABLE 7: Storm Sewer and Surface Water VOC Results (June 2004 - December 2004)

ANALYTE	WR OUTFALL 2004-12-22 SW A4L230115008 µg/L	DC 01 2004-06-16 SEWER A4F180339001 µg/L	SEWER A 2004-06-17 SEWER A4F180339003 µg/L	SEWER C 2005-01-21 SEWER A5A220147001 µg/L	SEWER E 2004-06-17 SEWER A4F180339002 µg/L	SEWER F 2004-06-17 SEWER A4F180339004 µg/L	SEWER G 2004-06-17 SEWER A4F180339005 µg/L
1,1,1,2-TETRACHLOROETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	< 17	< 1	< 1	2.7	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	13 J	< 1	< 1	20	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	< 17	< 1	< 1	0.77 J	< 1	< 1	< 1
1,1-DICHLOROETHANE	5.6 J	< 1	< 1	9.9	< 1	< 1	< 1
1,1-DICHLOROETHENE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	< 33	< 2	< 2	< 2	< 2	< 2	< 2
1,2-DIBROMOETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	21	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHENE (TOTAL)	390	< 2	0.96 J	51 E	< 2	< 2	1 J
1,2-DICHLOROPROPANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
1,4-DIOXANE	1200	< 50	< 50	220	< 50	< 50	< 50
2-BUTANONE	< 170	< 10	< 10	< 10	< 10	< 10	< 10
2-HEXANONE	< 170	< 10	< 10	< 10	< 10	< 10	< 10
3-CHLOROPROPENE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
4-METHYL-2-PENTANONE	< 170	< 10	< 10	< 10	< 10	< 10	< 10
ACETONE	170 B	< 10	< 10	< 10	< 10	< 10	< 10
ACETONITRILE	< 330	< 20	< 20	< 20	< 20	< 20	< 20
ACROLEIN	< 330	< 20	< 20	< 20	< 20	< 20	< 20
ACRYLONITRILE	< 330	< 20	< 20	< 20	< 20	< 20	< 20
BENZENE	76	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	< 17	< 1	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	19	< 1	< 1	< 1	< 1	0.37 J	0.27 J
CHLOROETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	9.6 J	< 1	< 1	30	< 1	< 1	< 1
CHLOROMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
CIS-1,2-DICHLOROETHENE	390	< 1	0.96 J	47 E	< 1	0.28 J	1
CIS-1,3-DICHLOROPROPENE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
DICHLOROFLUOROMETHANE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
ETHYL METHACRYLATE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
ETHYLBENZENE	38	< 1	< 1	< 1	< 1	< 1	< 1
IODOMETHANE	< 17	< 1	< 1	< 1	0.24 J	< 1	< 1
ISOBUTANOL	< 830	< 50	< 50	< 50	< 50	< 50	< 50
METHACRYLONITRILE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
METHYL METHACRYLATE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
METHYLENE CHLORIDE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	< 67	< 4	< 4	< 4	< 4	< 4	< 4
STYRENE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHENE	9.2 J	< 1	< 1	21	< 1	< 1	< 1
TOLUENE	250	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHENE	3.1 J	< 1	< 1	3.5	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,4-DICHLORO-2-BUTENE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHENE	14 J	< 1	< 1	160 E	< 1	< 1	< 1
TRICHLOROFLUOROMETHANE	< 17	< 1	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	< 33	< 2	< 2	< 2	< 2	< 2	< 2
VINYL CHLORIDE	12 J	< 1	0.43 J	< 1	< 1	0.45 J	0.72 J
XYLENES (TOTAL)	290	< 2	< 2	< 2	< 2	< 2	< 2

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