The Payne Firm, Inc.

EMD Chemicals Inc.

Norwood Facility
Cincinnati, Ohio
Project No. 0100.58.25

TABLE 15: Remedial Design Ground Water VOC Results from Temporary Geoprobe Monitoring Wells (September 2004)

ANALYTE	VE536 / 06-11 2004-09-23 GW A4I240108001 µg/L	VE536 / 12-17 2004-09-23 GW A4I240108002 µg/L	VE537 / 05.5-10.5 2004-09-23 GW A4I240108003 µg/L	VE537 / 12.5-17.5 2004-09-23 GW A4I240108004 µg/L	VE538 / 06.5-11.5 2004-09-23 GW A4I240108005 µg/L	VE538 / 13-18 2004-09-23 GW A4I240108006 µg/L	VE539 / 12.5-17.5 2004-09-24 GW A4I270179001 µg/L
1,1,1,2-TETRACHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	< 170	< 4	< 2	< 2	< 2	< 2	< 2
1,2-DIBROMOETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	2400	68	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHENE (TOTAL)	< 170	< 4	< 2	< 2	< 2	< 2	< 2
1,2-DICHLOROPROPANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
1,4-DIOXANE	1800 J	130	460	21 J	13 J	< 50	< 50
2-BUTANONE	< 830	1 J	1.4 J	1.3 J	0.5 J	0.92 J	< 10
2-HEXANONE	< 830	< 20	< 10	< 10	< 10	< 10	< 10
3-CHLOROPROPENE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
4-METHYL-2-PENTANONE	< 830	< 20	< 10	< 10	< 10	< 10	< 10
ACETONE	< 830	3.7 J	4.9 J	4.7 J	1.3 J	3.4 J	< 10
ACETONITRILE	< 1700	< 40	< 20	< 20	< 20	< 20	< 20
ACROLEIN	< 1700	< 40	< 20	< 20	< 20	< 20	< 20
ACRYLONITRILE	< 1700	< 40	< 20	< 20	< 20	< 20	< 20
BENZENE	< 83	< 2	0.3 J B	0.27 J B	0.25 J B	0.25 J B	< 1
BROMODICHLOROMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
BROMOFORM	< 83	< 2	< 1	< 1	< 1	< 1	< 1
BROMOMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CHLOROETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CHLOROMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	0.42 J B
CHLOROPRENE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
CIS-1,2-DICHLOROETHENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
CIS-1,3-DICHLOROPROPENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
DIBROMOMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
DICHLOROFLUOROMETHANE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
ETHYL METHACRYLATE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
ETHYLBENZENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
IODOMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
ISOBUTANOL	< 4200	< 100	< 50	< 50	< 50	< 50	< 50
METHACRYLONITRILE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
METHYL METHACRYLATE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
METHYLENE CHLORIDE	36 J B	0.66 J B	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	< 330	< 8	< 4	< 4	< 4	< 4	< 4
STYRENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TOLUENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TRANS-1,4-DICHLORO-2-BUTENE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHENE	< 83	< 2	< 1	< 1	< 1	< 1	3.5
TRICHLOROFLUOROMETHANE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
VINYL ACETATE	< 170	< 4	< 2	< 2	< 2	< 2	< 2
VINYL CHLORIDE	< 83	< 2	< 1	< 1	< 1	< 1	< 1
XYLENES (TOTAL)	< 170	< 4	< 2	< 2	< 2	< 2	< 2

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

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TABLE 15: Remedial Design Ground Water VOC Results from Temporary Geoprobe Monitoring Wells (September 2004)

ANALYTE	VE540 / 21-26 2004-09-28 GW A4I290193001 µg/L	VE540 / 35.5-40.5 2004-09-28 GW A4I290193002 µg/L	VE541 / 15.5-20.5 2004-09-30 GW A4J010139001 µg/L	VE541 / 15.5-20.5 2004-09-30 GWRERAN A4J010139001 µg/L	VE541 / 26.5-31.5 2004-09-28 GW A4I290193003 µg/L
1,1,1,2-TETRACHLOROETHANE	< 1	< 1	< 1.7	< 1	< 1
1,1,1-TRICHLOROETHANE	< 1	0.48 J	0.88 J	1	< 1
1,1,2,2-TETRACHLOROETHANE	< 1	< 1	< 1.7	< 1	< 1
1,1,2-TRICHLOROETHANE	< 1	< 1	< 1.7	< 1	< 1
1,1-DICHLOROETHANE	< 1	< 1	1.3 J	1.5	< 1
1,1-DICHLOROETHENE	< 1	< 1	< 1.7	< 1	< 1
1,2,3-TRICHLOROPROPANE	< 1	< 1	< 1.7	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	< 2	< 2	< 3.3	< 2	< 2
1,2-DIBROMOETHANE	< 1	< 1	< 1.7	< 1	< 1
1,2-DICHLOROETHANE	4.5	< 1	47	53 E	2.4
1,2-DICHLOROETHENE (TOTAL)	< 2	< 2	3.4	3.9	0.9 J
1,2-DICHLOROPROPANE	< 1	< 1	< 1.7	< 1	< 1
1,4-DIOXANE	720	20 J	190	72	18 J
2-BUTANONE	2.3 J	1.7 J	2.5 J	2.2 J	2.2 J
2-HEXANONE	< 10	< 10	< 17	< 10	< 10
3-CHLOROPROPENE	< 2	< 2	< 3.3	< 2	< 2
4-METHYL-2-PENTANONE	< 10	< 10	< 17	< 10	< 10
ACETONE	5.5 J	6.8 J	13 J	13	5.3 J
ACETONITRILE	< 20	< 20	< 33	< 20	< 20
ACROLEIN	< 20	< 20	< 33	< 20	< 20
ACRYLONITRILE	< 20	< 20	< 33	< 20	< 20
BENZENE	0.27 J	< 1	< 1.7	< 1	0.24 J
BROMODICHLOROMETHANE	< 1	< 1	< 1.7	< 1	< 1
BROMOFORM	< 1	< 1	< 1.7	< 1	< 1
BROMOMETHANE	< 1	< 1	< 1.7	< 1	< 1
CARBON DISULFIDE	< 1	< 1	< 1.7	0.36 J	< 1
CARBON TETRACHLORIDE	< 1	< 1	< 1.7	< 1	< 1
CHLOROBENZENE	< 1	< 1	< 1.7	< 1	< 1
CHLOROETHANE	< 1	< 1	< 1.7	< 1	< 1
CHLOROFORM	< 1	0.18 J	7.6	9.4	0.27 J
CHLOROMETHANE	0.43 J B	0.24 J B	< 1.7	< 1	0.29 J B
CHLOROPRENE	< 2	< 2	< 3.3	< 2	< 2
CIS-1,2-DICHLOROETHENE	< 1	< 1	2.8	3.2	0.9 J
CIS-1,3-DICHLOROPROPENE	< 1	< 1	< 1.7	< 1	< 1
DIBROMOCHLOROMETHANE	< 1	< 1	< 1.7	< 1	< 1
DIBROMOMETHANE	< 1	< 1	< 1.7	< 1	< 1
DICHLOROFLUOROMETHANE	< 2	< 2	< 3.3	< 2	< 2
ETHYL METHACRYLATE	< 1	< 1	< 1.7	< 1	< 1
ETHYLBENZENE	< 1	< 1	< 1.7	< 1	< 1
IODOMETHANE	< 1	< 1	< 1.7	< 1	< 1
ISOBUTANOL	< 50	< 50	< 84	< 50	< 50
METHACRYLONITRILE	< 2	< 2	< 3.3	< 2	< 2
METHYL METHACRYLATE	< 2	< 2	< 3.3	< 2	< 2
METHYLENE CHLORIDE	< 1	< 1	< 1.7	< 1	< 1
PROPIONITRILE	< 4	< 4	< 6.7	< 4	< 4
STYRENE	< 1	< 1	< 1.7	< 1	< 1
TETRACHLOROETHENE	< 1	< 1	< 1.7	< 1	< 1
TOLUENE	0.33 J	< 1	< 1.7	0.24 J	< 1
TRANS-1,2-DICHLOROETHENE	< 1	< 1	0.53 J	0.65 J	< 1
TRANS-1,3-DICHLOROPROPENE	< 1	< 1	< 1.7	< 1	< 1
TRANS-1,4-DICHLORO-2-BUTENE	< 1	< 1	< 1.7	< 1	< 1
TRICHLOROETHENE	< 1	0.39 J	7.4	8.1	0.38 J
TRICHLOROFLUOROMETHANE	< 1	< 1	< 1.7	< 1	< 1
VINYL ACETATE	< 2	< 2	< 3.3	< 2	< 2
VINYL CHLORIDE	< 1	< 1	0.71 J	0.72 J	< 1
XYLENES (TOTAL)	< 2	< 2	< 3.3	< 2	< 2

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