**Table 1.16**
**Average Concentration of VOCs in Lower Vadose Zone Soils**
**Pemaco Superfund Site, Maywood, CA**

| | Boring ID: | B-17 | B-37 | GP-VS-05 | GP-VS-08 | GP-VS-12 | GP-VS-21 | GP-VS-22 | GP-VS-28 | GP-VS-31 | GP-VS-32 | MW-05 | MW-05 | MW-05 | MW-05 | MW-06 | MW-06 | MW-06 | MW-06 | MW-07 | MW-07 | MW-07 | MW-08 | MW-08 | MW-08 | MW-09 | MW-09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start Depth: | 38.5 | 37.5 | 35 | 35 | 35 | 35 | 35 | 35 | 35.5 | 39.5 | 39 | 49.5 | 59.5 | 69.5 | 44.5 | 54.5 | 64.5 | 64.5 | 44.5 | 54.5 | 64.5 | 44.5 | 54.5 | 64.5 | 44.5 | 44.5 |
| | End Depth: | 39 | 39 | 35.5 | 35.5 | 36 | 35.5 | 35.5 | 35.5 | 36 | 40 | 39.5 | 50 | 60 | 70 | 45 | 55 | 65 | 65 | 45 | 55 | 65 | 45 | 55 | 65 | 45 | 45 |
| | Collection Date: | 4/16/2001 | 11/8/2001 | 2/19/2001 | 2/22/2001 | 2/22/2001 | 2/26/2001 | 2/23/2001 | 2/26/2001 | 2/26/2001 | 2/22/2001 | 3/23/2001 | 3/23/2001 | 3/23/2001 | 3/23/2001 | 3/27/2001 | 3/27/2001 | 3/27/2001 | 3/27/2001 | 3/26/2001 | 3/26/2001 | 3/26/2001 | 3/28/2001 | 3/28/2001 | 3/28/2001 | 3/30/2001 | 3/30/2001 |
| **PARAMETER** | **UNITS** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 1 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,1,2,2-Tetrachloroethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,1,2-Trichloroethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,1-Dichloroethane | µg/kg | 5 | 7.5 | 2 | 2 | 40 | 5.5 | 6 | 5.5 | 5.5 | 21 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,1-Dichloroethene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 5 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2,4-Trichlorobenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2-Dibromo-3-chloropropane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2-Dibromoethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2-Dichlorobenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2-Dichloroethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,2-Dichloropropane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,3-Dichlorobenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 1,4-Dichlorobenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 2-Butanone | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 13 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 42 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 2-Hexanone | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| 4-Methyl-2-pentanone | µg/kg | 5 | 7.5 | 5.5 | 4 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Acetone | µg/kg | 10 | 7.5 | 5.5 | 16.5 | 63 | 33 | 39 | 7 | 14.5 | 4.5 | 10 | 10 | 8 | 12 | 48 | 5.5 | 32 | 5.5 | 4 | 33 | 6.5 | 4.5 | 23 | 6 | 8 | 6 |
| Benzene | µg/kg | 5 | 7.5 | 5.5 | 1 | 6 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 190 | 520 | 410 | 470 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 3 | 1 |
| Bromodichloromethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Bromoform | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Bromomethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Carbon Disulfide | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 3 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Carbon Tetrachloride | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Chlorobenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Chloroethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 5.5 |
| Chloroform | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Chloromethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| cis-1,2-Dichloroethene | µg/kg | 5 | 7.5 | 15 | 450 | 110 | 130 | 6 | 5.5 | 5.5 | 3 | 6.5 | 3 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| cis-1,3-Dichloropropene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Cyclohexane | µg/kg | 5 | 7.5 | 5.5 | 6 | 8 | 14 | 18 | 5.5 | 5.5 | 4.5 | 5 | 8 | 19 | 5.5 | 25 | 110 | 25 | 69 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Dibromochloromethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Dichlorodifluoromethane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Ethylbenzene | µg/kg | 5 | 7.5 | 8 | 4.5 | 2 | 2 | 6 | 1 | 5.5 | 7 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Isopropylbenzene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Methyl Acetate | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Methyl tert-Butyl Ether | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Methylcyclohexane | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Methylene Chloride | µg/kg | 1.5 | 18 | 5.5 | 4.5 | 8 | 5.5 | 6 | 1 | 1 | 4.5 | 1 | 6.5 | 5 | 5.5 | 2 | 3.5 | 5.5 | 4.5 | 1 | 1 | 0.5 | 1 | 2 | 2 | 4.5 | 4.5 |
| Styrene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Tetrachloroethene | µg/kg | 7 | 7.5 | 5.5 | 2 | 8 | 1 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Toluene | µg/kg | 2 | 7.5 | 2 | 4.5 | 2 | 5.5 | 6 | 1 | 14 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 2 | 240 | 310 | 6 | 5.5 | 2 | 6.5 | 7 | 5.5 | 3 | 2 |
| trans-1,2-Dichloroethene | µg/kg | 5 | 7.5 | 5.5 | 4 | 5 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| trans-1,3-Dichloropropene | µg/kg | 5 | 7.5 | 5.5 | 4.5 | 8 | 5.5 | 6 | 5.5 | 5.5 | 4.5 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Trichloroethene | µg/kg | 5 | 7.5 | 4 | 11 | 180 | 700 | 11 | 5.5 | 5.5 | 1 | 6.5 | 17 | 11 | 3 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Trichlorofluoromethane | µg/kg | 5 | 3 | 2 | 4.5 | 8 | 5.5 | 6 | 4 | 3 | 2 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Vinyl Chloride | µg/kg | 5 | 7.5 | 5.5 | 27 | 7 | 5.5 | 6 | 5.5 | 5.5 | 22 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 5.5 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| Xylenes (total) | µg/kg | 5 | 7.5 | 35 | 2 | 5 | 5 | 3 | 3 | 2 | 30 | 6.5 | 6.5 | 5 | 5.5 | 6.5 | 5.5 | 5.5 | 2 | 6 | 5.5 | 5.5 | 6.5 | 7 | 5.5 | 6.5 | 6 |
| **Total VOCs** | | **240.5** | **366** | **293.5** | **692** | **721** | **1110.5** | **335** | **248** | **271** | **270.5** | **308.5** | **324** | **263** | **268** | **586.5** | **877.5** | **949** | **1092** | **281** | **282.5** | **256.5** | **304.5** | **347** | **261** | **304.5** | **277** |

**Table 1.16**
**Average Concentration of VOCs in Lower Vadose Zone Soils**
**Pemaco Superfund Site, Maywood, CA**

| | Boring ID: | MW-09 | MW-09 | MW-10 | MW-10 | MW-10 | MW-11 | MW-11 | MW-11 | MW-11 | MW-12 | MW-12 | MW-12 | MW-13 | MW-13 | MW-13 | MW-14 | MW-14 | MW-14 | MW-14 | MW-14 | MW-15 | MW-15 | MW-15 | MW-15 | MW-15 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start Depth: | 54.5 | 64.5 | 44.5 | 54.5 | 64.5 | 44.5 | 54.5 | 54.5 | 64.5 | 44.5 | 54.5 | 64.5 | 44.5 | 54.5 | 64.5 | 35 | 45 | 55 | 65 | 65 | 35 | 45 | 55 | 65 | 65 | 35 |
| | End Depth: | 55 | 65 | 45 | 55 | 65 | 45 | 55 | 55 | 65 | 45 | 55 | 65 | 45 | 55 | 65 | 35.5 | 45.5 | 55.5 | 65.5 | 65.5 | 35.5 | 45.5 | 55.5 | 65.5 | 65.5 | 35.5 |
| | Collection Date: | 3/30/2001 | 3/30/2001 | 4/2/2001 | 4/2/2001 | 4/2/2001 | 3/29/2001 | 3/29/2001 | 3/29/2001 | 3/29/2001 | 4/3/2001 | 4/3/2001 | 4/3/2001 | 4/4/2001 | 4/4/2001 | 4/4/2001 | 11/14/2001 | 11/14/2001 | 11/14/2001 | 11/14/2001 | 11/14/2001 | 11/19/2001 | 11/19/2001 | 11/19/2001 | 11/19/2001 | 11/19/2001 | 11/15/2001 |
| **PARAMETER** | **UNITS** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,1,2,2-Tetrachloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,1,2-Trichloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,1-Dichloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,1-Dichloroethene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2,4-Trichlorobenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2-Dibromo-3-chloropropane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2-Dibromoethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2-Dichlorobenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2-Dichloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,2-Dichloropropane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,3-Dichlorobenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 1,4-Dichlorobenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 2-Butanone | µg/kg | 4 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 230 | 5.5 | 160 | 5 | 5 | 465 |
| 2-Hexanone | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| 4-Methyl-2-pentanone | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 110 | 5 | 5 | 465 |
| Acetone | µg/kg | 5 | 12.5 | 5.5 | 6.5 | 3 | 8 | 11 | 8 | 25 | 5 | 5 | 6 | 6 | 4.5 | 13.5 | 5 | 5 | 5.5 | 5 | 3.5 | 500 | 5.5 | 500 | 5 | 14.5 | 465 |
| Benzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 2 | 6 | 5.5 | 5 | 6 | 2 | 2 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Bromodichloromethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Bromoform | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Bromomethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Carbon Disulfide | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Carbon Tetrachloride | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Chlorobenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Chloroethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Chloroform | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Chloromethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| cis-1,2-Dichloroethene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 2 | 5 | 5.5 | 5 | 5.5 | 420 | 6 | 140 | 12 | 7 | 120 |
| cis-1,3-Dichloropropene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Cyclohexane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 12 | 2 | 2 | 420 | 5.5 | 470 | 10 | 2 | 465 |
| Dibromochloromethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Dichlorodifluoromethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Ethylbenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Isopropylbenzene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Methyl Acetate | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 330 | 5.5 | 470 | 5 | 5 | 465 |
| Methyl tert-Butyl Ether | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Methylcyclohexane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Methylene Chloride | µg/kg | 4 | 1 | 1 | 1.5 | 1.5 | 4 | 6 | 5 | 6 | 6 | 5.5 | 1.5 | 6 | 0.5 | 6 | 22 | 22 | 24 | 12.5 | 15 | 175 | 41 | 295 | 18 | 40.5 | 850 |
| Styrene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Tetrachloroethene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Toluene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 2 | 6 | 5.5 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 420 | 5.5 | 470 | 2 | 3 | 465 |
| trans-1,2-Dichloroethene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| trans-1,3-Dichloropropene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Trichloroethene | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 310 | 8 | 330 | 190 | 43 | 710 |
| Trichlorofluoromethane | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 3 | 6 | 5 | 6 | 2 | 2 | 6 | 4 | 3 | 420 | 2 | 470 | 6 | 7 | 465 |
| Vinyl Chloride | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| Xylenes (total) | µg/kg | 5.5 | 5.5 | 6 | 5 | 5 | 5.5 | 6 | 5 | 6.5 | 6 | 5.5 | 5 | 6 | 5 | 6 | 5 | 5 | 5.5 | 5 | 5.5 | 420 | 5.5 | 470 | 5 | 5 | 465 |
| **Total VOCs** | | **260.5** | **266.5** | **282.5** | **238** | **234.5** | **265** | **293** | **243** | **321** | **287** | **263.5** | **231.5** | **288** | **228** | **286.5** | **247** | **250** | **285** | **239.5** | **261** | **19605** | **299** | **21275** | **448** | **322** | **22605** |

**Table 1.16**
**Average Concentration of VOCs in Lower Vadose Zone Soils**
**Pemaco Superfund Site, Maywood, CA**

| | Boring ID: | MW-16 | MW-16 | MW-16 | MW-16 | MW-17 | MW-17 | MW-17 | MW-17 | MW-17 | MW-18 | MW-18 | MW-18 | MW-18 | MW-19 | MW-19 | MW-19 | MW-19 | MW-19 | RW-01 | RW-01 | RW-01 | RW-01 | RW-01 | **Average Concentration (µg/kg)** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start Depth: | 45 | 45 | 55 | 65 | 35 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 75 | 75 | |
| | End Depth: | 45.5 | 45.5 | 55.5 | 65.5 | 35.5 | 35.5 | 45.5 | 55.5 | 65.5 | 35.5 | 45.5 | 55.5 | 65.5 | 35.5 | 35.5 | 45.5 | 55.5 | 65.5 | 35.5 | 45.5 | 55.5 | 75.5 | 75.5 | |
| | Collection Date: | 11/15/2001 | 11/15/2001 | 11/15/2001 | 11/15/2001 | 11/26/2001 | 11/26/2001 | 11/26/2001 | 11/26/2001 | 11/26/2001 | 11/16/2001 | 11/16/2001 | 11/16/2001 | 11/16/2001 | 11/27/2001 | 11/27/2001 | 11/27/2001 | 11/27/2001 | 11/27/2001 | 11/20/2001 | 11/20/2001 | 11/20/2001 | 11/20/2001 | 11/20/2001 | |
| **PARAMETER** | **UNITS** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.11 |
| 1,1,2,2-Tetrachloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,1,2-Trichloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,1-Dichloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.74 |
| 1,1-Dichloroethene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.13 |
| 1,2,4-Trichlorobenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,2-Dibromo-3-chloropropane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,2-Dibromoethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,2-Dichlorobenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,2-Dichloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 400 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 190.84 |
| 1,2-Dichloropropane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,3-Dichlorobenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 1,4-Dichlorobenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| 2-Butanone | µg/kg | 750 | 600 | 470 | 550 | 195 | 250 | 55 | 230 | 235 | 325 | 450 | 500 | 485 | 240 | 245 | 200 | 185 | 235 | 500 | 5.5 | 470 | 480 | 580 | 125.43 |
| 2-Hexanone | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 375 | 75 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 186.84 |
| 4-Methyl-2-pentanone | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 189.37 |
| Acetone | µg/kg | 750 | 600 | 500 | 550 | 550 | 600 | 600 | 550 | 550 | 800 | 600 | 650 | 600 | 600 | 460 | 85 | 450 | 600 | 650 | 20 | 650 | 600 | 650 | 196.35 |
| Benzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 214.73 |
| Bromodichloromethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Bromoform | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Bromomethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Carbon Disulfide | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.11 |
| Carbon Tetrachloride | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Chlorobenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Chloroethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Chloroform | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Chloromethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| cis-1,2-Dichloroethene | µg/kg | 750 | 280 | 660 | 550 | 120 | 650 | 450 | 630 | 650 | 550 | 260 | 190 | 485 | 250 | 650 | 650 | 650 | 650 | 380 | 13 | 730 | 500 | 550 | 171.85 |
| cis-1,3-Dichloropropene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Cyclohexane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 197.43 |
| Dibromochloromethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Dichlorodifluoromethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Ethylbenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.05 |
| Isopropylbenzene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Methyl Acetate | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 192.97 |
| Methyl tert-Butyl Ether | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Methylcyclohexane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Methylene Chloride | µg/kg | 3450 | 1550 | 1500 | 2300 | 80 | 110 | 220 | 25 | 125 | 375 | 315 | 450 | 280 | 145 | 135 | 100 | 110 | 115 | 140 | 18 | 140 | 135 | 35 | 180.39 |
| Styrene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Tetrachloroethene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.11 |
| Toluene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 2 | 550 | 500 | 550 | 200.43 |
| trans-1,2-Dichloroethene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.13 |
| trans-1,3-Dichloropropene | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.17 |
| Trichloroethene | µg/kg | 750 | 150 | 270 | 1100 | 2600 | 860 | 2100 | 1400 | 1200 | 130 | 500 | 200 | 270 | 4000 | 1600 | 680 | 440 | 430 | 1400 | 24 | 300 | 175 | 325 | 315.25 |
| Trichlorofluoromethane | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 6 | 550 | 500 | 550 | 193.83 |
| Vinyl Chloride | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 650 | 650 | 470 | 5.5 | 550 | 500 | 550 | 194.69 |
| Xylenes (total) | µg/kg | 750 | 600 | 470 | 550 | 650 | 650 | 650 | 650 | 650 | 550 | 450 | 500 | 485 | 650 | 650 | 650 | 200 | 650 | 470 | 5.5 | 550 | 500 | 550 | 188.66 |
| **Total VOCs** | | **38700** | **28980** | **23610** | **28700** | **31495** | **30420** | **31375** | **30535** | **30710** | **25655** | **21100** | **23490** | **22975** | **33185** | **31040** | **29665** | **29335** | **29980** | **23280** | **314** | **25940** | **23390** | **25790** | |

**Total VOC Average Concentration 9346.926667**

Note: Half-values of detection limits were used when an analyte was not detected at or above the laboratory method detection limit.