ARCADIS

Table 1. Summary of July 2011 Groundwater Analytic

| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | N-11 27/11 | MW-12 07/27/11 | MW-13 07/26/11 | MW-14 07/28/11 |
|---|---|---|---|---|---|---|
| **PEST/PCB-EPA 8081A/8082** | | | | | | |
| 4,4'-DDD | 72-54-8 | 2.80E-01 | NA | <0.099 | <0.1 | NA |
| 4,4'-DDE | 72-55-9 | 2.00E-01 | NA | <0.099 | <0.1 | NA |
| 4,4'-DDT | 50-29-3 | 2.00E-01 | NA | <0.099 | <0.1 | NA |
| 4-Chlorobenzilate | 510-15-6 | 6.10E-01 | NA | <0.5 | <0.51 | NA |
| Aldrin | 309-00-2 | 4.00E-03 | NA | <0.05 | <0.051 | NA |
| Alpha-BHC | 319-84-6 | 1.10E-02 | NA | <0.05 | **0.25** | NA |
| Aroclor-1016 | 12674-11-2 | 9.60E-01 | NA | <0.99 | <1 | NA |
| Aroclor-1221 | 11104-28-2 | 6.80E-03 | NA | <2 | <2 | NA |
| Aroclor-1232 | 11141-16-5 | 6.80E-03 | NA | <0.99 | <1 | NA |
| Aroclor-1242 | 53469-21-9 | 3.40E-02 | NA | <0.99 | <1 | NA |
| Aroclor-1248 | 12672-29-6 | 3.40E-02 | NA | <0.99 | <1 | NA |
| Aroclor-1254 | 11097-69-1 | 3.40E-02 | NA | <0.99 | <1 | NA |
| Aroclor-1260 | 11096-82-5 | 3.40E-02 | NA | <0.99 | <1 | NA |
| Beta-BHC | 319-85-7 | 3.70E-02 | NA | <0.05 | <0.051 | NA |
| Delta-BHC | 319-86-8 | -- | NA | <0.05 | <0.051 | NA |
| Dieldrin | 60-57-1 | 4.20E-03 | NA | <0.099 | <0.1 | NA |
| Endosulfan I | 959-98-8 | -- | NA | <0.05 | <0.051 | NA |
| Endosulfan II | 33213-65-9 | -- | NA | <0.099 | <0.1 | NA |
| Endosulfan Sulfate | 1031-07-8 | -- | NA | <0.099 | <0.1 | NA |
| Endrin | 72-20-8 | 1.10E+01 | NA | <0.099 | <0.1 | NA |
| Endrin Aldehyde | 7421-93-4 | -- | NA | <0.099 | <0.1 | NA |
| Endrin Ketone | 53494-70-5 | -- | NA | <0.099 | <0.1 | NA |
| Gamma-BHC (Lindane) | 58-89-9 | 6.10E-02 | NA | <0.05 | <0.051 | NA |
| Heptachlor | 76-44-8 | 1.50E-02 | NA | <0.05 | <0.051 | NA |
| Heptachlor Epoxide | 1024-57-3 | 7.40E-03 | NA | <0.05 | <0.051 | NA |
| Isodrin | 465-73-6 | -- | NA | <0.05 | <0.051 | NA |
| Kepone | 143-50-0 | 6.70E-03 | NA | <0.99 * | <1 | NA |
| Methoxychlor | 72-43-5 | 1.80E+02 | NA | <0.099 | <0.1 | NA |
| Technical Chlordane | 57-74-9 | -- | NA | <0.5 | <0.51 | NA |
| Toxaphene | 8001-35-2 | 6.10E-02 | NA | <5 | <5.1 | NA |
| **Herb-EPA 8151A** | | | | | | |
| 2,4,5-T | 93-76-5 | 3.70E+02 | NA | <0.51 | <0.5 | NA |
| 2,4,5-TP | 93-72-1 | 2.90E+02 | NA | <0.51 | <0.5 | NA |
| 2,4-D | 94-75-7 | 3.70E+02 | NA | <0.51 | <0.5 | NA |
| **Volatile Organics-EPA 8260B** | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5.20E-01 | [<1] | <1 | <10 | <1 |
| 1,1,1-Trichloroethane | 71-55-6 | 9.10E+03 | [<1] | <1 | <10 | <1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 6.70E-02 | [<1] | <1 | <10 | <1 |
| 1,1,2-Trichloroethane | 79-00-5 | 2.40E-01 | [<1] | <1 | <10 | <1 |
| 1,1-Dichloroethane | 75-34-3 | 2.40E+00 | [<1] | <1 | <10 | <1 |
| 1,1-Dichloroethene | 75-35-4 | 3.40E+02 | [<1] | <1 | <10 | <1 |
| 1,2,3-Trichloropropane | 96-18-4 | 7.20E-04 | [<1] | <1 | <10 | <1 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 3.20E-04 | [<1] | <1 | <10 | <1 |
| 1,2-Dibromoethane | 106-93-4 | 6.50E-03 | [<1] | <1 | <10 | <1 |
| 1,2-Dichloroethane | 107-06-2 | 1.50E-01 | [<1] | <1 | <10 | <1 |
| 1,2-Dichloropropane | 78-87-5 | 3.90E-01 | [<1] | <1 | <10 | <1 |
| 2-Butanone | 78-93-3 | 7.10E+03 | [<10] | <10 | <100 | <10 |
| 2-Chloro-1,3-butadiene | 126-99-8 | 1.60E-02 | [<1] | <1 | <10 | <1 |
| 2-Hexanone | 591-78-6 | 4.70E+01 | [<10] | <10 | <100 | <10 |
| 3-Chloropropene | 107-05-1 | 6.50E-01 | [<1] | <1 | <10 | <1 |
| 4-Methyl-2-pentanone | 108-10-1 | 2.00E+03 | [<10] | <10 | <100 | <10 |
| Acetone | 67-64-1 | 2.20E+04 | [<25] | <25 | <250 | <25 |
| Acetonitrile | 75-05-8 | 1.30E+02 | [<40] | <40 | <400 | <40 |
| Acrolein | 107-02-8 | 4.20E-02 | [<20] | <20 | <200 | <20 |
| Acrylonitrile | 107-13-1 | 4.50E-02 | [<20] | <20 | <200 | <20 |
| Benzene | 71-43-2 | 4.10E-01 | [<1] | <1 | **390** | <1 |
| Bromodichloromethane | 75-27-4 | 1.20E-01 | [<1] | <1 | <10 | <1 |
| Bromoform | 75-25-2 | 8.50E+00 | * [<1] | <1 | <10 | <1 * |
| Bromomethane | 74-83-9 | 8.70E+00 | [<1] | <1 | <10 | <1 |
| Carbon Disulfide | 75-15-0 | 1.00E+03 | [<2] | <2 | <20 | <2 |
| Carbon Tetrachloride | 56-23-5 | 4.40E-01 | * [<1] | <1 | **620** | <1 * |
| Chlorobenzene | 108-90-7 | 9.10E+01 | [<1] | <1 | **24** | <1 |
| Chloroethane | 75-00-3 | 2.10E+04 | [<1] | <1 | <10 | <1 |
| Chloroform | 67-66-3 | 1.90E-01 | [<1] | <1 | **210** | <1 |

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| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | W-11 /27/11 | MW-12 07/27/11 | MW-13 07/26/11 | MW-14 07/28/11 |
|---|---|---|---|---|---|---|
| Chloromethane | 74-87-3 | 1.90E+02 | 1 [<1] | <1 | <10 | <1 |
| cis-1,2-Dichloroethene | 156-59-2 | 7.30E+01 | 1 [<1] | <1 | <10 | <1 |
| cis-1,3-Dichloropropene | 10061-01-5 | - - | 1 [<1] | <1 | <10 | <1 |
| Dibromochloromethane | 124-48-1 | 1.50E-01 | 1 [<1] | <1 | <10 | <1 |
| Dibromomethane | 74-95-3 | 8.20E+00 | 1 [<1] | <1 | <10 | <1 |
| Dichlorodifluoromethane | 75-71-8 | 2.00E+02 | 1 [<1] | <1 | <10 | <1 |
| Ethyl Methacrylate | 97-63-2 | 5.30E+02 | 1 [<1] | <1 | <10 | <1 |
| Ethylbenzene | 100-41-4 | 1.50E+00 | 1 [<1] | <1 | <10 | <1 |
| Iodomethane | 74-88-4 | - - | 5 [<5] | <5 | <50 | <5 |
| Isobutanol | 78-83-1 | 1.10E+04 | 0 [<40] | <40 | <400 | <40 |
| Methacrylonitrile | 126-98-7 | 1.00E+00 | 0 [<20] | <20 | <200 | <20 |
| Methyl Methacrylate | 80-62-6 | 1.40E+03 | 1 [<1] | <1 | <10 | <1 |
| Methylene Chloride | 75-09-2 | 4.80E+00 | 5 [<5] | <5 | <50 | <5 |
| Pentachloroethane | 76-01-7 | 7.50E-01 | 5 [<5] | <5 | <50 | <5 |
| Propionitrile | 107-12-0 | - - | 0 [<20] | <20 | <200 | <20 |
| Styrene | 100-42-5 | 1.60E+03 | 1 [<1] | <1 | <10 | <1 |
| Tetrachloroethene | 127-18-4 | 1.10E-01 | 1 [<1] | <1 | <10 | <1 |
| Toluene | 108-88-3 | 2.30E+03 | 1 [<1] | <1 | <10 | <1 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.10E+02 | 1 [<1] | <1 | <10 | <1 |
| trans-1,3-Dichloropropene | 10061-02-6 | - - | 1 [<1] | <1 | <10 | <1 |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 1.20E-03 | 2 [<2] | <2 | <20 | <2 |
| Trichloroethene | 79-01-6 | 2.00E+00 | 1 [<1] | <1 | <10 | <1 |
| Trichlorofluoromethane | 75-69-4 | 1.30E+03 | 1 [<1] | <1 | <10 | <1 |
| Vinyl Acetate | 108-05-4 | 4.10E+02 | 2 [<2] | <2 | <20 | <2 |
| Vinyl Chloride | 75-01-4 | 1.60E-02 | 1 [<1] | <1 | <10 | <1 |
| Xylenes (total) | 1330-20-7 | 2.00E+02 | 2 [<2] | <2 | <20 | <2 |
| **Semivolatile Organics-EPA 8270C** | | | | | | |
| 1,1'-Biphenyl | 92-52-4 | 8.30E-01 | NA | <12 | <49 | NA |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | 1.10E+01 | NA | <12 | <49 | NA |
| 1,2,4-Trichlorobenzene | 120-82-1 | 2.30E+00 | NA | <12 | <49 | NA |
| 1,2-Dichlorobenzene | 95-50-1 | 3.70E+02 | NA | <12 | <49 | NA |
| 1,3,5-Trinitrobenzene | 99-35-4 | 1.10E+03 | NA | <12 | <49 | NA |
| 1,3-Dichlorobenzene | 541-73-1 | - - | NA | <12 | <49 | NA |
| 1,3-Dinitrobenzene | 99-65-0 | 3.70E+00 | NA | <12 | <49 | NA |
| 1,4-Dichlorobenzene | 106-46-7 | 4.30E-01 | NA | <12 | <49 | NA |
| 1,4-Dioxane | 123-91-1 | 6.70E-01 | NA | <12 | **470** | NA |
| 1,4-Naphthoquinone | 130-15-4 | - - | NA | <12 | <49 | NA |
| 1-Naphthylamine | 134-32-7 | - - | NA | <12 | <49 | NA |
| 2,2'-Oxybis(1-Chloropropane) | 108-60-1 | 3.20E-01 | NA | <12 | <49 | NA |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1.10E+03 | NA | <12 | <49 | NA |
| 2,4,5-Trichlorophenol | 95-95-4 | 3.70E+03 | NA | <12 | <49 | NA |
| 2,4,6-Trichlorophenol | 88-06-2 | 6.10E+00 | NA | <12 | <49 | NA |
| 2,4-Dichlorophenol | 120-83-2 | 1.10E+02 | NA | <12 | <49 | NA |
| 2,4-Dimethylphenol | 105-67-9 | 7.30E+02 | NA | <12 | <49 | NA |
| 2,4-Dinitrophenol | 51-28-5 | 7.30E+01 | NA | <62 | <250 | NA |
| 2,4-Dinitrotoluene | 121-14-2 | 2.20E-01 | NA | <12 | <49 | NA |
| 2,6-Dichlorophenol | 87-65-0 | - - | NA | <12 | <49 | NA |
| 2,6-Dinitrotoluene | 606-20-2 | 3.70E+01 | NA | <12 | <49 | NA |
| 2-Acetylaminofluorene | 53-96-3 | 1.80E-02 | NA | <12 | <49 | NA |
| 2-Chloronaphthalene | 91-58-7 | 2.90E+03 | NA | <12 | <49 | NA |
| 2-Chlorophenol | 95-57-8 | 1.80E+02 | NA | <12 | <49 | NA |
| 2-Methylnaphthalene | 91-57-6 | 1.50E+02 | NA | <12 | <49 | NA |
| 2-Methylphenol | 95-48-7 | 1.80E+03 | NA | <12 | <49 | NA |
| 2-Naphthylamine | 91-59-8 | 3.70E-02 | NA | <12 | <49 | NA |
| 2-Nitroaniline | 88-74-4 | 3.70E+02 | NA | <62 | <250 | NA |
| 2-Nitrophenol | 88-75-5 | - - | NA | <12 | <49 | NA |
| 2-Picoline | 109-06-8 | - - | NA | <12 | <49 | NA |
| 3 & 4 Methylphenol | 15831-10-4 | - - | NA | <12 | <49 | NA |
| 3,3'-Dichlorobenzidine | 91-94-1 | 1.50E-01 | NA | <75 | <290 | NA |
| 3,3'-Dimethylbenzidine | 119-93-7 | 6.10E-03 | NA | <25 | <98 | NA |
| 3-Methylcholanthrene | 56-49-5 | 9.80E-04 | NA | <12 | <49 | NA |
| 3-Nitroaniline | 99-09-2 | - - | NA | <62 | <250 | NA |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 2.90E+00 | NA | <62 | <250 | NA |
| 4-Aminobiphenyl | 92-67-1 | 3.20E-03 | NA | <12 | <49 | NA |
| 4-Bromophenyl-phenylether | 101-55-3 | - - | NA | <12 | <49 | NA |

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|---|---|---|---|---|---|---|
| 4-Chloro-3-Methylphenol | 59-50-7 | 3.70E+03 | NA | <12 | <49 | NA |
| 4-Chloroaniline | 106-47-8 | 3.40E-01 | NA | <25 | <98 | NA |
| 4-Chlorophenyl-phenylether | 7005-72-3 | - - | NA | <12 | <49 | NA |
| 4-Nitroaniline | 100-01-6 | 3.40E+00 | NA | <62 | <250 | NA |
| 4-Nitrophenol | 100-02-7 | - - | NA | <62 | <250 | NA |
| 4-Nitroquinoline-1-oxide | 56-57-5 | - - | NA | <25 | <98 | NA |
| 4-Phenylenediamine | 106-50-3 | 6.90E+03 | NA | <2,500 | <9,800 | NA |
| 5-Nitro-o-toluidine | 99-55-8 | 7.50E+00 | NA | <12 | <49 | NA |
| 7,12-Dimethylbenz(a)anthracene | 57-97-6 | 8.60E-05 | NA | <12 | <49 | NA |
| a,a'-Dimethylphenethylamine | 122-09-8 | - - | NA | <2,500 | <9,800 | NA |
| Acenaphthene | 83-32-9 | 2.20E+03 | NA | <12 | <49 | NA |
| Acenaphthylene | 208-96-8 | - - | NA | <12 | <49 | NA |
| Acetophenone | 98-86-2 | 3.70E+03 | NA | <12 | <49 | NA |
| Aniline | 62-53-3 | 1.20E+01 | NA | <25 | <98 | NA |
| Anthracene | 120-12-7 | 1.10E+04 | NA | <12 | <49 | NA |
| Aramite | 140-57-8 | 2.70E+00 | NA | <12 | <49 | NA |
| Benzo(a)anthracene | 56-55-3 | 2.90E-02 | NA | <12 | <49 | NA |
| Benzo(a)pyrene | 50-32-8 | 2.90E-03 | NA | <12 | <49 | NA |
| Benzo(b)fluoranthene | 205-99-2 | 2.90E-02 | NA | <12 | <49 | NA |
| Benzo(g,h,i)perylene | 191-24-2 | - - | NA | <12 | <49 | NA |
| Benzo(k)fluoranthene | 207-08-9 | 2.90E-01 | NA | <12 | <49 | NA |
| Benzyl Alcohol | 100-51-6 | 3.70E+03 | NA | <12 | <49 | NA |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1.10E+02 | NA | <12 | <49 | NA |
| bis(2-Chloroethyl)ether | 111-44-4 | 1.20E-02 | NA | <12 | <49 | NA |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | 4.80E+00 | NA | <12 | <49 | NA |
| Butylbenzylphthalate | 85-68-7 | 3.50E+01 | NA | <12 | <49 | NA |
| Chrysene | 218-01-9 | 2.90E+00 | NA | <12 | <49 | NA |
| Diallate | 2303-16-4 | 1.10E+00 | NA | <12 | <49 | NA |
| Dibenzo(a,h)anthracene | 53-70-3 | 2.90E-03 | NA | <12 | <49 | NA |
| Dibenzofuran | 132-64-9 | 3.70E+01 | NA | <12 | <49 | NA |
| Diethylphthalate | 84-66-2 | 2.90E+04 | NA | <12 | <49 | NA |
| Dimethoate | 60-51-5 | 7.30E+00 | NA | <12 * | <49 | NA |
| Dimethylphthalate | 131-11-3 | - - | NA | <12 | <49 | NA |
| Di-n-Butylphthalate | 84-74-2 | 3.70E+03 | NA | <12 | <49 | NA |
| Di-n-Octylphthalate | 117-84-0 | - - | NA | <12 | <49 | NA |
| Dinoseb | 88-85-7 | 3.70E+01 | NA | <12 | <49 | NA |
| Disulfoton | 298-04-4 | 1.50E+00 | NA | <12 * | <49 | NA |
| Ethyl Methanesulfonate | 62-50-0 | - - | NA | <12 | <49 | NA |
| Ethyl Parathion | 56-38-2 | 2.20E+02 | NA | <12 | <49 | NA |
| Famphur | 52-85-7 | - - | NA | <12 * | <49 | NA |
| Fluoranthene | 206-44-0 | 1.50E+03 | NA | <12 | <49 | NA |
| Fluorene | 86-73-7 | 1.50E+03 | NA | <12 | <49 | NA |
| Hexachlorobenzene | 118-74-1 | 4.20E-02 | NA | <12 | <49 | NA |
| Hexachlorobutadiene | 87-68-3 | 8.60E-01 | NA | <12 | <49 | NA |
| Hexachlorocyclopentadiene | 77-47-4 | 2.20E+02 | NA | <12 | <49 | NA |
| Hexachloroethane | 67-72-1 | 4.80E+00 | NA | <12 | <49 | NA |
| Hexachlorophene | 70-30-4 | 1.10E+01 | NA | <6,200 | <25,000 | NA |
| Hexachloropropene | 1888-71-7 | - - | NA | <12 | <49 | NA |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 2.90E-02 | NA | <12 | <49 | NA |
| Isophorone | 78-59-1 | 7.10E+01 | NA | <12 | <49 | NA |
| Isosafrole | 120-58-1 | - - | NA | <12 | <49 | NA |
| Methapyrilene | 91-80-5 | - - | NA | <2,500 | <9,800 | NA |
| Methyl Methanesulfonate | 66-27-3 | 6.80E-01 | NA | <12 | <49 | NA |
| Methyl Parathion | 298-00-0 | 9.10E+00 | NA | <12 * | <49 | NA |
| Naphthalene | 91-20-3 | 1.40E-01 | NA | <12 | <49 | NA |
| Nitrobenzene | 98-95-3 | 1.20E-01 | NA | <12 | <49 | NA |
| N-Nitrosodiethylamine | 55-18-5 | 1.40E-04 | NA | <12 | <49 | NA |
| N-Nitrosodimethylamine | 62-75-9 | 4.20E-04 | NA | <12 | <49 | NA |
| N-Nitroso-di-n-butylamine | 924-16-3 | 2.40E-03 | NA | <12 | <49 | NA |
| N-Nitroso-di-n-propylamine | 621-64-7 | 9.60E-03 | NA | <12 | <49 | NA |
| N-Nitrosodiphenylamine | 86-30-6 | 1.40E+01 | NA | <12 | <49 | NA |
| N-Nitrosomethylethylamine | 10595-95-6 | 3.10E-03 | NA | <12 | <49 | NA |
| N-Nitrosomorpholine | 59-89-2 | 1.00E-02 | NA | <12 | <49 | NA |
| N-Nitrosopiperidine | 100-75-4 | 7.20E-03 | NA | <12 | <49 | NA |
| N-Nitrosopyrrolidine | 930-55-2 | 3.20E-02 | NA | <12 | <49 | NA |

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|---|---|---|---|---|---|---|
| o,o,o-Triethylphosphorothioate | 126-68-1 | -- | NA | <12 | 190 | NA |
| o-Toluidine | 95-53-4 | -- | NA | <12 | <49 | NA |
| p-Dimethylaminoazobenzene | 60-11-7 | 1.50E-02 | NA | <12 | <49 | NA |
| Pentachlorobenzene | 608-93-5 | 2.90E+01 | NA | <12 | <49 | NA |
| Pentachloronitrobenzene | 82-68-8 | 2.60E-01 | NA | <12 | <49 | NA |
| Pentachlorophenol | 87-86-5 | 1.70E-01 | NA | <62 | <250 | NA |
| Phenacetin | 62-44-2 | 3.10E+01 | NA | <12 | <49 | NA |
| Phenanthrene | 85-01-8 | -- | NA | <12 | <49 | NA |
| Phenol | 108-95-2 | 1.10E+04 | NA | <12 | <49 | NA |
| Phorate | 298-02-2 | 7.30E+00 | NA | <12 | <49 | NA |
| Pronamide | 23950-58-5 | 2.70E+03 | NA | <12 | <49 | NA |
| Pyrene | 129-00-0 | 1.10E+03 | NA | <12 | <49 | NA |
| Pyridine | 110-86-1 | 3.70E+01 | NA | <62 | <250 | NA |
| Safrole | 94-59-7 | 9.80E-02 | NA | <12 | <49 | NA |
| Sulfotep | 3689-24-5 | 1.80E+01 | NA | <12 | <49 | NA |
| Thionazin | 297-97-2 | -- | NA | <12 | <49 | NA |
| **Dioxins-EPA 8290** | | | | | | |
| 2,3,7,8-TCDD | 1746-01-6 | 5.20E-01 | NA | <9.8 | <10 | NA |
| Total TEQ | -- | -- | NA | 0.00 | 0.00 | NA |
| **Inorganics-EPA 6020** | | | | | | |
| Antimony | 7440-36-0 | 1.50E+01 | NA | <5 | <5 | NA |
| Arsenic | 7440-38-2 | 4.50E-02 | NA | <2.5 | **5.7** | NA |
| Barium | 7440-39-3 | 7.30E+03 | NA | 120 | 49 | NA |
| Beryllium | 7440-41-7 | 7.30E+01 | NA | <0.5 | <0.5 | NA |
| Cadmium | 7440-43-9 | -- | NA | <0.5 | <0.5 | NA |
| Chromium | 7440-47-3 | -- | NA | <5 | <5 | NA |
| Cobalt | 7440-48-4 | 1.10E+01 | NA | 3.4 | 1.5 | NA |
| Copper | 7440-50-8 | 1.50E+03 | NA | <5 | <5 | NA |
| Lead | 7439-92-1 | -- | NA | <1.5 | <1.5 | NA |
| Nickel | 7440-02-0 | 7.30E+02 | NA | 9.7 | <5 | NA |
| Selenium | 7782-49-2 | 1.80E+02 | NA | <2.5 | <2.5 | NA |
| Silver | 7440-22-4 | 1.80E+02 | NA | <1 | <1 | NA |
| Thallium | 7440-28-0 | 3.70E-01 | NA | <1 | <1 | NA |
| Tin | 7440-31-5 | 2.20E+04 | NA | <5 | <5 | NA |
| Vanadium | 7440-62-2 | -- | NA | <10 | <10 | NA |
| Zinc | 7440-66-6 | 1.10E+04 | NA | 34 | 41 | NA |
| **Inorganics-EPA 7470A** | | | | | | |
| Mercury | 7439-97-6 | 6.30E-01 | NA | <0.2 | <0.2 | NA |
| **Miscellaneous-9034** | | | | | | |
| Sulfide | 18496-25-8 | -- | NA | <1 | <1 | NA |
| **Miscellaneous9012A** | | | | | | |
| Cyanide | 57-12-5 | 7.30E-01 | NA | <0.01 | <0.01 | NA |

| | |
|---|---|
| * | Laboratory duplicate analysis wa |
| < | Less than. |
| -- | Standard not promulgated. |
| | Shaded cells indicate that the re |
| **Boldface type** | Compound detected. |
| EPA | U.S. Environmental Protection A |
| MDEQ | Mississippi Department of Envir |
| MDEQ_GW | MDEQ Tier 1 Target Remediatic |
| mg/L | Milligrams per liter. |
| NA | Not analyzed. |
| RSL | Regional Screening Level. |
| TEQ | Toxic equivalent. |
| ug/L | Micrograms per liter. |

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Table 1. Summary of July 2011 Groundwater Analyti

| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | MW-24 27/11 |
|---|---|---|---|
| **PEST/PCB-EPA 8081A/8082** | | | |
| 4,4'-DDD | 72-54-8 | 2.80E-01 | NA |
| 4,4'-DDE | 72-55-9 | 2.00E-01 | NA |
| 4,4'-DDT | 50-29-3 | 2.00E-01 | NA |
| 4-Chlorobenzilate | 510-15-6 | 6.10E-01 | NA |
| Aldrin | 309-00-2 | 4.00E-03 | NA |
| Alpha-BHC | 319-84-6 | 1.10E-02 | NA |
| Aroclor-1016 | 12674-11-2 | 9.60E-01 | NA |
| Aroclor-1221 | 11104-28-2 | 6.80E-03 | NA |
| Aroclor-1232 | 11141-16-5 | 6.80E-03 | NA |
| Aroclor-1242 | 53469-21-9 | 3.40E-02 | NA |
| Aroclor-1248 | 12672-29-6 | 3.40E-02 | NA |
| Aroclor-1254 | 11097-69-1 | 3.40E-02 | NA |
| Aroclor-1260 | 11096-82-5 | 3.40E-02 | NA |
| Beta-BHC | 319-85-7 | 3.70E-02 | NA |
| Delta-BHC | 319-86-8 | - - | NA |
| Dieldrin | 60-57-1 | 4.20E-03 | NA |
| Endosulfan I | 959-98-8 | - - | NA |
| Endosulfan II | 33213-65-9 | - - | NA |
| Endosulfan Sulfate | 1031-07-8 | - - | NA |
| Endrin | 72-20-8 | 1.10E+01 | NA |
| Endrin Aldehyde | 7421-93-4 | - - | NA |
| Endrin Ketone | 53494-70-5 | - - | NA |
| Gamma-BHC (Lindane) | 58-89-9 | 6.10E-02 | NA |
| Heptachlor | 76-44-8 | 1.50E-02 | NA |
| Heptachlor Epoxide | 1024-57-3 | 7.40E-03 | NA |
| Isodrin | 465-73-6 | - - | NA |
| Kepone | 143-50-0 | 6.70E-03 | NA |
| Methoxychlor | 72-43-5 | 1.80E+02 | NA |
| Technical Chlordane | 57-74-9 | - - | NA |
| Toxaphene | 8001-35-2 | 6.10E-02 | NA |
| **Herb-EPA 8151A** | | | |
| 2,4,5-T | 93-76-5 | 3.70E+02 | NA |
| 2,4,5-TP | 93-72-1 | 2.90E+02 | NA |
| 2,4-D | 94-75-7 | 3.70E+02 | NA |
| **Volatile Organics-EPA 8260B** | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5.20E-01 | <1 |
| 1,1,1-Trichloroethane | 71-55-6 | 9.10E+03 | <1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 6.70E-02 | <1 |
| 1,1,2-Trichloroethane | 79-00-5 | 2.40E-01 | <1 |
| 1,1-Dichloroethane | 75-34-3 | 2.40E+00 | <1 |
| 1,1-Dichloroethene | 75-35-4 | 3.40E+02 | <1 |
| 1,2,3-Trichloropropane | 96-18-4 | 7.20E-04 | <1 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 3.20E-04 | <1 |
| 1,2-Dibromoethane | 106-93-4 | 6.50E-03 | <1 |
| 1,2-Dichloroethane | 107-06-2 | 1.50E-01 | <1 |
| 1,2-Dichloropropane | 78-87-5 | 3.90E-01 | <1 |
| 2-Butanone | 78-93-3 | 7.10E+03 | 10 |
| 2-Chloro-1,3-butadiene | 126-99-8 | 1.60E-02 | <1 |
| 2-Hexanone | 591-78-6 | 4.70E+01 | 10 |
| 3-Chloropropene | 107-05-1 | 6.50E-01 | <1 |
| 4-Methyl-2-pentanone | 108-10-1 | 2.00E+03 | 10 |
| Acetone | 67-64-1 | 2.20E+04 | 25 |
| Acetonitrile | 75-05-8 | 1.30E+02 | 40 |
| Acrolein | 107-02-8 | 4.20E-02 | 20 |
| Acrylonitrile | 107-13-1 | 4.50E-02 | 20 |
| Benzene | 71-43-2 | 4.10E-01 | <1 |
| Bromodichloromethane | 75-27-4 | 1.20E-01 | <1 |
| Bromoform | 75-25-2 | 8.50E+00 | <1 |
| Bromomethane | 74-83-9 | 8.70E+00 | <1 |
| Carbon Disulfide | 75-15-0 | 1.00E+03 | <2 |
| Carbon Tetrachloride | 56-23-5 | 4.40E-01 | <1 |
| Chlorobenzene | 108-90-7 | 9.10E+01 | <1 |
| Chloroethane | 75-00-3 | 2.10E+04 | <1 |
| Chloroform | 67-66-3 | 1.90E-01 | <1 |

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Table 1. Summary of July 2011 Groundwater Analytic

| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | N-24 27/11 |
|---|---|---|---|
| Chloromethane | 74-87-3 | 1.90E+02 | <1 |
| cis-1,2-Dichloroethene | 156-59-2 | 7.30E+01 | <1 |
| cis-1,3-Dichloropropene | 10061-01-5 | - - | <1 |
| Dibromochloromethane | 124-48-1 | 1.50E-01 | <1 |
| Dibromomethane | 74-95-3 | 8.20E+00 | <1 |
| Dichlorodifluoromethane | 75-71-8 | 2.00E+02 | <1 |
| Ethyl Methacrylate | 97-63-2 | 5.30E+02 | <1 |
| Ethylbenzene | 100-41-4 | 1.50E+00 | <1 |
| Iodomethane | 74-88-4 | - - | <5 |
| Isobutanol | 78-83-1 | 1.10E+04 | :40 |
| Methacrylonitrile | 126-98-7 | 1.00E+00 | :20 |
| Methyl Methacrylate | 80-62-6 | 1.40E+03 | <1 |
| Methylene Chloride | 75-09-2 | 4.80E+00 | <5 |
| Pentachloroethane | 76-01-7 | 7.50E-01 | <5 |
| Propionitrile | 107-12-0 | - - | :20 |
| Styrene | 100-42-5 | 1.60E+03 | <1 |
| Tetrachloroethene | 127-18-4 | 1.10E-01 | <1 |
| Toluene | 108-88-3 | 2.30E+03 | <1 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.10E+02 | <1 |
| trans-1,3-Dichloropropene | 10061-02-6 | - - | <1 |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 1.20E-03 | <2 |
| Trichloroethene | 79-01-6 | 2.00E+00 | <1 |
| Trichlorofluoromethane | 75-69-4 | 1.30E+03 | <1 |
| Vinyl Acetate | 108-05-4 | 4.10E+02 | <2 |
| Vinyl Chloride | 75-01-4 | 1.60E-02 | <1 |
| Xylenes (total) | 1330-20-7 | 2.00E+02 | <2 |
| **Semivolatile Organics-EPA 8270C** | | | |
| 1,1'-Biphenyl | 92-52-4 | 8.30E-01 | √A |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | 1.10E+01 | √A |
| 1,2,4-Trichlorobenzene | 120-82-1 | 2.30E+00 | √A |
| 1,2-Dichlorobenzene | 95-50-1 | 3.70E+02 | √A |
| 1,3,5-Trinitrobenzene | 99-35-4 | 1.10E+03 | √A |
| 1,3-Dichlorobenzene | 541-73-1 | - - | √A |
| 1,3-Dinitrobenzene | 99-65-0 | 3.70E+00 | √A |
| 1,4-Dichlorobenzene | 106-46-7 | 4.30E-01 | √A |
| 1,4-Dioxane | 123-91-1 | 6.70E-01 | √A |
| 1,4-Naphthoquinone | 130-15-4 | - - | √A |
| 1-Naphthylamine | 134-32-7 | - - | √A |
| 2,2'-Oxybis(1-Chloropropane) | 108-60-1 | 3.20E-01 | √A |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1.10E+03 | √A |
| 2,4,5-Trichlorophenol | 95-95-4 | 3.70E+03 | √A |
| 2,4,6-Trichlorophenol | 88-06-2 | 6.10E+00 | √A |
| 2,4-Dichlorophenol | 120-83-2 | 1.10E+02 | √A |
| 2,4-Dimethylphenol | 105-67-9 | 7.30E+02 | √A |
| 2,4-Dinitrophenol | 51-28-5 | 7.30E+01 | √A |
| 2,4-Dinitrotoluene | 121-14-2 | 2.20E-01 | √A |
| 2,6-Dichlorophenol | 87-65-0 | - - | √A |
| 2,6-Dinitrotoluene | 606-20-2 | 3.70E+01 | √A |
| 2-Acetylaminofluorene | 53-96-3 | 1.80E-02 | √A |
| 2-Chloronaphthalene | 91-58-7 | 2.90E+03 | √A |
| 2-Chlorophenol | 95-57-8 | 1.80E+02 | √A |
| 2-Methylnaphthalene | 91-57-6 | 1.50E+02 | √A |
| 2-Methylphenol | 95-48-7 | 1.80E+03 | √A |
| 2-Naphthylamine | 91-59-8 | 3.70E-02 | √A |
| 2-Nitroaniline | 88-74-4 | 3.70E+02 | √A |
| 2-Nitrophenol | 88-75-5 | - - | √A |
| 2-Picoline | 109-06-8 | - - | √A |
| 3 & 4 Methylphenol | 15831-10-4 | - - | √A |
| 3,3'-Dichlorobenzidine | 91-94-1 | 1.50E-01 | √A |
| 3,3'-Dimethylbenzidine | 119-93-7 | 6.10E-03 | √A |
| 3-Methylcholanthrene | 56-49-5 | 9.80E-04 | √A |
| 3-Nitroaniline | 99-09-2 | - - | √A |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 2.90E+00 | √A |
| 4-Aminobiphenyl | 92-67-1 | 3.20E-03 | √A |
| 4-Bromophenyl-phenylether | 101-55-3 | - - | √A |

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Table 1. Summary of July 2011 Groundwater Analyti

| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | W-24 /27/11 |
|---|---|---|---|
| 4-Chloro-3-Methylphenol | 59-50-7 | 3.70E+03 | NA |
| 4-Chloroaniline | 106-47-8 | 3.40E-01 | NA |
| 4-Chlorophenyl-phenylether | 7005-72-3 | - - | NA |
| 4-Nitroaniline | 100-01-6 | 3.40E+00 | NA |
| 4-Nitrophenol | 100-02-7 | - - | NA |
| 4-Nitroquinoline-1-oxide | 56-57-5 | - - | NA |
| 4-Phenylenediamine | 106-50-3 | 6.90E+03 | NA |
| 5-Nitro-o-toluidine | 99-55-8 | 7.50E+00 | NA |
| 7,12-Dimethylbenz(a)anthracene | 57-97-6 | 8.60E-05 | NA |
| a,a'-Dimethylphenethylamine | 122-09-8 | - - | NA |
| Acenaphthene | 83-32-9 | 2.20E+03 | NA |
| Acenaphthylene | 208-96-8 | - - | NA |
| Acetophenone | 98-86-2 | 3.70E+03 | NA |
| Aniline | 62-53-3 | 1.20E+01 | NA |
| Anthracene | 120-12-7 | 1.10E+04 | NA |
| Aramite | 140-57-8 | 2.70E+00 | NA |
| Benzo(a)anthracene | 56-55-3 | 2.90E-02 | NA |
| Benzo(a)pyrene | 50-32-8 | 2.90E-03 | NA |
| Benzo(b)fluoranthene | 205-99-2 | 2.90E-02 | NA |
| Benzo(g,h,i)perylene | 191-24-2 | - - | NA |
| Benzo(k)fluoranthene | 207-08-9 | 2.90E-01 | NA |
| Benzyl Alcohol | 100-51-6 | 3.70E+03 | NA |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1.10E+02 | NA |
| bis(2-Chloroethyl)ether | 111-44-4 | 1.20E-02 | NA |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | 4.80E+00 | NA |
| Butylbenzylphthalate | 85-68-7 | 3.50E+01 | NA |
| Chrysene | 218-01-9 | 2.90E+00 | NA |
| Diallate | 2303-16-4 | 1.10E+00 | NA |
| Dibenzo(a,h)anthracene | 53-70-3 | 2.90E-03 | NA |
| Dibenzofuran | 132-64-9 | 3.70E+01 | NA |
| Diethylphthalate | 84-66-2 | 2.90E+04 | NA |
| Dimethoate | 60-51-5 | 7.30E+00 | NA |
| Dimethylphthalate | 131-11-3 | - - | NA |
| Di-n-Butylphthalate | 84-74-2 | 3.70E+03 | NA |
| Di-n-Octylphthalate | 117-84-0 | - - | NA |
| Dinoseb | 88-85-7 | 3.70E+01 | NA |
| Disulfoton | 298-04-4 | 1.50E+00 | NA |
| Ethyl Methanesulfonate | 62-50-0 | - - | NA |
| Ethyl Parathion | 56-38-2 | 2.20E+02 | NA |
| Famphur | 52-85-7 | - - | NA |
| Fluoranthene | 206-44-0 | 1.50E+03 | NA |
| Fluorene | 86-73-7 | 1.50E+03 | NA |
| Hexachlorobenzene | 118-74-1 | 4.20E-02 | NA |
| Hexachlorobutadiene | 87-68-3 | 8.60E-01 | NA |
| Hexachlorocyclopentadiene | 77-47-4 | 2.20E+02 | NA |
| Hexachloroethane | 67-72-1 | 4.80E+00 | NA |
| Hexachlorophene | 70-30-4 | 1.10E+01 | NA |
| Hexachloropropene | 1888-71-7 | - - | NA |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 2.90E-02 | NA |
| Isophorone | 78-59-1 | 7.10E+01 | NA |
| Isosafrole | 120-58-1 | - - | NA |
| Methapyrilene | 91-80-5 | - - | NA |
| Methyl Methanesulfonate | 66-27-3 | 6.80E-01 | NA |
| Methyl Parathion | 298-00-0 | 9.10E+00 | NA |
| Naphthalene | 91-20-3 | 1.40E-01 | NA |
| Nitrobenzene | 98-95-3 | 1.20E-01 | NA |
| N-Nitrosodiethylamine | 55-18-5 | 1.40E-04 | NA |
| N-Nitrosodimethylamine | 62-75-9 | 4.20E-04 | NA |
| N-Nitroso-di-n-butylamine | 924-16-3 | 2.40E-03 | NA |
| N-Nitroso-di-n-propylamine | 621-64-7 | 9.60E-03 | NA |
| N-Nitrosodiphenylamine | 86-30-6 | 1.40E+01 | NA |
| N-Nitrosomethylethylamine | 10595-95-6 | 3.10E-03 | NA |
| N-Nitrosomorpholine | 59-89-2 | 1.00E-02 | NA |
| N-Nitrosopiperidine | 100-75-4 | 7.20E-03 | NA |
| N-Nitrosopyrrolidine | 930-55-2 | 3.20E-02 | NA |

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Table 1. Summary of July 2011 Groundwater Analytic

| Location ID: / Date Collected: | CAS # | EPA RSL TAP WATER | N-24 27/11 |
|---|---|---|---|
| o,o,o-Triethylphosphorothioate | 126-68-1 | -- | NA |
| o-Toluidine | 95-53-4 | -- | NA |
| p-Dimethylaminoazobenzene | 60-11-7 | 1.50E-02 | NA |
| Pentachlorobenzene | 608-93-5 | 2.90E+01 | NA |
| Pentachloronitrobenzene | 82-68-8 | 2.60E-01 | NA |
| Pentachlorophenol | 87-86-5 | 1.70E-01 | NA |
| Phenacetin | 62-44-2 | 3.10E+01 | NA |
| Phenanthrene | 85-01-8 | -- | NA |
| Phenol | 108-95-2 | 1.10E+04 | NA |
| Phorate | 298-02-2 | 7.30E+00 | NA |
| Pronamide | 23950-58-5 | 2.70E+03 | NA |
| Pyrene | 129-00-0 | 1.10E+03 | NA |
| Pyridine | 110-86-1 | 3.70E+01 | NA |
| Safrole | 94-59-7 | 9.80E-02 | NA |
| Sulfotep | 3689-24-5 | 1.80E+01 | NA |
| Thionazin | 297-97-2 | -- | NA |
| **Dioxins-EPA 8290** | | | |
| 2,3,7,8-TCDD | 1746-01-6 | 5.20E-01 | NA |
| Total TEQ | -- | -- | NA |
| **Inorganics-EPA 6020** | | | |
| Antimony | 7440-36-0 | 1.50E+01 | NA |
| Arsenic | 7440-38-2 | 4.50E-02 | NA |
| Barium | 7440-39-3 | 7.30E+03 | NA |
| Beryllium | 7440-41-7 | 7.30E+01 | NA |
| Cadmium | 7440-43-9 | -- | NA |
| Chromium | 7440-47-3 | -- | NA |
| Cobalt | 7440-48-4 | 1.10E+01 | NA |
| Copper | 7440-50-8 | 1.50E+03 | NA |
| Lead | 7439-92-1 | -- | NA |
| Nickel | 7440-02-0 | 7.30E+02 | NA |
| Selenium | 7782-49-2 | 1.80E+02 | NA |
| Silver | 7440-22-4 | 1.80E+02 | NA |
| Thallium | 7440-28-0 | 3.70E-01 | NA |
| Tin | 7440-31-5 | 2.20E+04 | NA |
| Vanadium | 7440-62-2 | -- | NA |
| Zinc | 7440-66-6 | 1.10E+04 | NA |
| **Inorganics-EPA 7470A** | | | |
| Mercury | 7439-97-6 | 6.30E-01 | NA |
| **Miscellaneous-9034** | | | |
| Sulfide | 18496-25-8 | -- | NA |
| **Miscellaneous9012A** | | | |
| Cyanide | 57-12-5 | 7.30E-01 | NA |

| | |
|---|---|
| • | Laboratory duplicate analysis wa |
| < | Less than. |
| -- | Standard not promulgated. |
| | Shaded cells indicate that the re |
| **Boldface type** | Compound detected. |
| EPA | U.S. Environmental Protection A |
| MDEQ | Mississippi Department of Envirc |
| MDEQ_GW | MDEQ Tier 1 Target Remediatio |
| mg/L | Milligrams per liter. |
| NA | Not analyzed. |
| RSL | Regional Screening Level. |
| TEQ | Toxic equivalent. |
| ug/L | Micrograms per liter. |

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Table 2 Combined Groundwater Screening Evaluation, Revised Phase I S

| Constituent [a] | | Max Detect | Locatio Maximı Detecti | Does min DL exceed MDEQ? | USEPA RSL [c] | Surrogate Value | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|---|
| **Pesticides/PCBs (µg/L)** | | | | | | | | | |
| 4,4'-DDD | | – | -- | No | 0.28 | | ND | YES | No |
| 4,4'-DDE | | – | -- | No | 0.20 | | ND | YES | No |
| 4,4'-DDT | | – | -- | No | 0.20 | | ND | YES | No |
| 4-Chlorobenzilate | | – | -- | YES | 0.61 | | ND | YES | No |
| Aldrin | | – | -- | YES | 0.004 | | ND | YES | YES |
| Alpha-BHC | | 1.5 | MW-17(7/2( | YES | 0.01 | | YES | YES | YES |
| Aroclor 1016 | | – | -- | YES | 0.96 | | ND | YES | YES |
| Aroclor 1221 | | – | -- | YES | 0.01 | | ND | YES | YES |
| Aroclor 1232 | | – | -- | YES | 0.01 | | ND | YES | YES |
| Aroclor 1242 | | – | -- | YES | 0.03 | | ND | YES | YES |
| Aroclor 1248 | | – | -- | YES | 0.03 | | ND | YES | YES |
| Aroclor 1254 | | – | -- | YES | 0.03 | | ND | YES | YES |
| Aroclor 1260 | | – | -- | YES | 0.03 | | ND | YES | YES |
| Beta-BHC | | – | -- | YES | 0.04 | | ND | YES | YES |
| Delta-BHC | [d] | – | -- | YES | 0.04 | [d] | ND | YES | YES |
| Dieldrin | | – | -- | YES | 0.00 | | ND | YES | YES |
| Endosulfan I | [e] | – | -- | No | 220 | | ND | No | No |
| Endosulfan II | [e] | – | -- | No | 220 | | ND | No | No |
| Endosulfan Sulfate | [e] | – | -- | No | 220 | | ND | No | No |
| Endrin | | – | -- | No | 11 | | ND | No | No |
| Endrin Aldehyde | [f] | – | -- | No | 11 | | ND | No | No |
| Endrin Ketone | [f] | – | -- | No | 11 | | ND | No | No |
| Gamma-BHC (Lindane) | | 0.3 | MW-08(7/2( | No | 0.06 | | YES | YES | No |
| Heptachlor | | – | -- | No | 0.02 | | ND | YES | YES |
| Heptachlor Epoxide | | – | -- | No | 0.01 | | ND | YES | YES |
| Isodrin | [g] | – | -- | YES | 0.004 | [g] | ND | YES | YES |
| Kepone | | – | -- | NA | 0.007 | | ND | YES | YES |
| Methoxychlor | | – | -- | No | 180 | | ND | No | No |
| Technical Chlordane | | – | -- | No | 0.19 | | ND | YES | YES |
| Toxaphene | | – | -- | YES | 0.06 | | ND | YES | YES |
| **Herbicides (µg/L)** | | | | | | | | | |
| 2,4,5-T | | – | -- | No | 370 | | ND | No | No |
| 2,4,5-TP | | – | -- | No | 290 | | ND | No | No |
| 2,4-D | | 10 | MW-23(7/2( | No | 370 | | No | No | No |
| **Volatile Organic Compounds (µg/L)** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | – | -- | YES | 0.52 | | ND | YES | YES |
| 1,1,1-Trichloroethane | | – | -- | No | 9,100 | | ND | No | No |
| 1,1,2,2-Tetrachloroethane | | – | -- | YES | 0.07 | | ND | YES | YES |
| 1,1,2-Trichloroethane | | – | -- | No | 0.24 | | ND | YES | YES |
| 1,1-Dichloroethane | | – | -- | No | 2.4 | | ND | YES | No |
| 1,1-Dichloroethene | | – | -- | No | 340 | | No | YES | No |
| 1,2,3-Trichloropropane | | – | -- | YES | 0.0007 | | ND | YES | YES |
| 1,2-Dibromo-3-chloropropane | | – | -- | YES | 0.0003 | | ND | YES | YES |
| 1,2-Dibromoethane | | – | -- | YES | 0.01 | | ND | YES | YES |
| 1,2-Dichloroethane | | – | -- | No | 0.15 | | YES | YES | YES |
| 1,2-Dichloropropane | | – | -- | No | 0.39 | | YES | YES | YES |
| 2-Butanone | | – | -- | No | 7,100 | | ND | No | No |
| 2-Chloro-1,3-butadiene | | – | -- | No | 0.02 | | ND | YES | YES |
| 2-Hexanone | | – | -- | No | 47 | | ND | YES | No |
| 3-Chloropropene | | – | -- | NA | 0.65 | | ND | YES | YES |
| 4-Methyl-2-pentanone | | 1,100 | MW-23(7/2( | No | 2,000 | | No | No | No |
| Acetone | | – | -- | No | 22,000 | | No | No | No |
| Acetonitrile | | – | -- | No | 130 | | ND | YES | No |
| Acrolein | | – | -- | YES | 0.04 | | ND | YES | YES |
| Acrylonitrile | | – | -- | YES | 0.05 | | ND | YES | YES |
| Benzene | | 8,800 | MW-23(7/2( | No | 0.41 | | YES | YES | YES |
| Bromodichloromethane | | – | -- | YES | 0.12 | | YES | YES | YES |
| Bromoform | | – | -- | No | 8.5 | | No | YES | No |
| Bromomethane | | – | -- | No | 8.7 | | No | YES | No |
| Carbon Disulfide | | 390 | MW-23(7/2( | No | 1,000 | | No | No | No |

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Table 2. Combined Groundwater Screening Evaluation, Revised Phase I S

| Constituent [a] | | Max Detect | Location Maximu Detecti | Does min DL exceed MDEQ? | USEPA RSL [c] | Surrogate Value | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | | 25,000 | MW-17(7/2E | No | 0.44 | | YES | YES | YES |
| Chlorobenzene | | 770 | MW-17(7/2E | No | 91 | | YES | YES | No |
| Chloroethane | | – | -- | No | 21,000 | | No | No | No |
| Chloroform | | 4,300 | MW-21(7/2E | YES | 0.19 | | YES | YES | YES |
| Chloromethane | | – | -- | No | 190 | | No | YES | No |
| cis-1,2-Dichloroethene | | – | -- | No | 73 | | No | YES | No |
| cis-1,3-Dichloropropene | [h] | – | -- | YES | 0.43 | | ND | YES | YES |
| Dibromochloromethane | | – | -- | YES | 0.15 | | YES | YES | YES |
| Dibromomethane | | – | -- | No | 8.2 | | ND | YES | No |
| Dichlorodifluoromethane | | – | -- | No | 200 | | ND | No | No |
| Ethyl Methacrylate | | – | -- | No | 530 | | ND | No | No |
| Ethylbenzene | | 55 | MW-08(7/2E | No | 1.5 | | YES | YES | No |
| Iodomethane | [i] | – | -- | No | 8.7 | | ND | YES | No |
| Isobutanol | | – | -- | No | 11,000 | | ND | No | No |
| Isopropylbenzene | | – | -- | No | 680 | | No | No | No |
| Methacrylonitrile | | – | -- | YES | 1.0 | | ND | YES | YES |
| Methyl Methacrylate | | – | -- | No | 1400 | | ND | No | No |
| Methylene Chloride | | 340 | MW-08(7/2E | No | 4.8 | | YES | YES | YES |
| Pentachloroethane | | – | -- | NA | 0.75 | | ND | YES | YES |
| Propionitrile | | – | -- | NA | NA | | ND | NA | NA |
| Styrene | | – | -- | No | 1,600 | | No | YES | No |
| Tetrachloroethene | | – | -- | No | 0.11 | | YES | YES | YES |
| Toluene | | 2,600 | MW-21(7/2E | No | 2,300 | | YES | No | No |
| trans-1,2-Dichloroethene | | – | -- | No | 110 | | ND | YES | No |
| trans-1,3-Dichloropropene | [h] | – | -- | YES | 0.43 | | ND | YES | YES |
| trans-1,4-Dichloro-2-butene | [j] | – | -- | YES | 0.001 | | ND | YES | YES |
| Trichloroethene | | – | -- | No | 2.0 | | YES | YES | No |
| Trichlorofluoromethane | | – | -- | No | 1,300 | | ND | No | No |
| Vinyl Acetate | | – | -- | No | 410 | | ND | No | No |
| Vinyl Chloride | | – | -- | No | 0.02 | | YES | YES | YES |
| Xylenes (total) | | – | -- | No | 200 | | ND | YES | No |
| **Semivolatile Organic Compounds (µg/L)** | | | | | | | | | |
| 1,1'-Biphenyl | | 770 | MW-19(7/2E | No | 0.83 | | YES | YES | YES |
| 1,2,4,5-Tetrachlorobenzene | | – | -- | No | 11 | | ND | YES | No |
| 1,2,4-Trichlorobenzene | | – | -- | No | 2.30 | | YES | YES | YES |
| 1,2-Dichlorobenzene | | – | -- | No | 370 | | No | YES | No |
| 1,3,5-Trinitrobenzene | | – | -- | No | 1,100 | | ND | No | No |
| 1,3-Dichlorobenzene | | – | -- | YES | 370 | | No | YES | No |
| 1,3-Dinitrobenzene | | – | -- | YES | 3.7 | | ND | YES | YES |
| 1,4-Dichlorobenzene | | – | -- | No | 0.43 | | YES | YES | YES |
| 1,4-Dioxane | | 13,000 | MW-08(7/2E | YES | 0.67 | | YES | YES | YES |
| 1,4-Naphthoquinone | | – | -- | NA | NA | | ND | NA | NA |
| 1-Naphthylamine | | – | -- | NA | NA | | ND | NA | NA |
| 2,2'-Oxybis(1-Chloropropane) | | – | -- | NA | NA | | ND | NA | NA |
| 2,3,4,6-Tetrachlorophenol | | – | -- | No | 1,100 | | ND | No | No |
| 2,4,5-Trichlorophenol | | – | -- | No | 3,700 | | ND | No | No |
| 2,4,6-Trichlorophenol | | – | -- | YES | 6.1 | | ND | YES | YES |
| 2,4-Dichlorophenol | | – | -- | No | 110 | | ND | YES | No |
| 2,4-Dimethylphenol | | – | -- | No | 730 | | ND | YES | No |
| 2,4-Dinitrophenol | | – | -- | No | 73 | | ND | YES | No |
| 2,4-Dinitrotoluene | | – | -- | No | 0.22 | | ND | YES | YES |
| 2,6-Dichlorophenol | [k] | – | -- | No | 73 | [k] | ND | YES | No |
| 2,6-Dinitrotoluene | | – | -- | No | 37 | | ND | YES | No |
| 2-Acetylaminofluorene | | – | -- | NA | 0.02 | | ND | YES | YES |
| 2-Chloronaphthalene | | – | -- | No | 2,900 | | ND | No | No |
| 2-Chlorophenol | | – | -- | No | 180 | | ND | YES | No |
| 2-Methylnaphthalene | | – | -- | No | 150 | | ND | YES | No |
| 2-Methylphenol | | – | -- | No | 1,800 | | ND | No | No |
| 2-Naphthylamine | | – | -- | NA | 0.04 | | ND | YES | YES |
| 2-Nitroaniline | | – | -- | YES | 370 | | ND | YES | No |
| 2-Nitrophenol | | – | -- | YES | 1,800 | | ND | No | No |

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Table 2. Combined Groundwater Screening Evaluation, Revised Phase I S

| Constituent [a] | Max Detect | Location Maximu Detecti | 2( Does min DL exceed MDEQ? | USEPA RSL [c] | Surrogate Value | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|
| 2-Picoline | – | -- | NA | NA | | ND | NA | NA |
| 3 & 4 Methylphenol | 660 | MW-23(7/2( | NA | NA | | NA | NA | NA |
| 3,3'-Dichlorobenzidine | – | -- | YES | 0.15 | | ND | YES | YES |
| 3,3'-Dimethylbenzidine | – | -- | YES | 0.01 | | ND | YES | YES |
| 3-Methylcholanthrene | – | -- | NA | 0.003 | | ND | YES | YES |
| 3-Nitroaniline | – | -- | NA | 3.4 | | ND | YES | YES |
| 4,6-Dinitro-2-methylphenol | – | -- | YES | 2.90 | | ND | YES | YES |
| 4-Aminobiphenyl | – | -- | NA | 0.003 | | ND | YES | YES |
| 4-Bromophenyl-phenylether | – | -- | NA | 3.7 | | ND | YES | YES |
| 4-Chloro-3-Methylphenol | – | -- | No | 3,700 | | ND | No | No |
| 4-Chloroaniline | – | -- | No | 0.34 | | ND | YES | YES |
| 4-Chlorophenyl-phenylether | – | -- | NA | 3.7 | | ND | YES | YES |
| 4-Nitroaniline | – | -- | NA | 3.4 | | ND | YES | YES |
| 4-Nitrophenol | – | -- | No | 180 | | ND | YES | No |
| 4-Nitroquinoline-1-oxide | – | -- | NA | NA | | ND | NA | NA |
| 4-Phenylenediamine | – | -- | No | 6,900 | | ND | YES | No |
| 5-Nitro-o-toluidine | – | -- | YES | 7.5 | | ND | YES | YES |
| 7,12-Dimethylbenz(a)anthracene | – | -- | NA | 0.0003 | | ND | YES | YES |
| a,a'-Dimethylphenethylamine | – | -- | NA | NA | | ND | NA | NA |
| Acenaphthene | – | -- | No | 2,200 | | ND | No | No |
| Acenaphthylene | – | -- | No | 2,200 | | ND | No | No |
| Acetophenone | – | -- | YES | 3,700 | | ND | No | No |
| Aniline | – | -- | YES | 12 | | ND | YES | YES |
| Anthracene | – | -- | No | 11,000 | | ND | No | No |
| Aramite | – | -- | NA | 2.7 | | ND | YES | YES |
| Benzo(a)anthracene | – | -- | YES | 0.03 | | ND | YES | YES |
| Benzo(a)pyrene | – | -- | YES | 0.003 | | ND | YES | YES |
| Benzo(b)fluoranthene | – | -- | YES | 0.03 | | ND | YES | YES |
| Benzo(g,h,i)perylene | – | -- | No | 1,100 | | ND | No | No |
| Benzo(k)fluoranthene | – | -- | YES | 0.29 | | ND | YES | YES |
| Benzyl Alcohol | – | -- | No | 3,700 | | ND | No | No |
| bis(2-Chloroethoxy)methane | – | -- | NA | 110 | | ND | YES | No |
| bis(2-Chloroethyl)ether | – | -- | YES | 0.01 | | ND | YES | YES |
| bis(2-Ethylhexyl)phthalate | – | -- | YES | 4.8 | | ND | YES | YES |
| Butylbenzylphthalate | – | -- | No | 35 | | ND | YES | No |
| Chrysene | – | -- | YES | 2.9 | | ND | YES | YES |
| Diallate | – | -- | NA | 1.1 | | ND | YES | YES |
| Dibenzo(a,h)anthracene | – | -- | YES | 0.0029 | | ND | YES | YES |
| Dibenzofuran | – | -- | No | 37 | | ND | YES | No |
| Diethylphthalate | – | -- | No | 29,000 | | ND | No | No |
| Dimethoate | – | -- | NA | 7.3 | | ND | YES | YES |
| Dimethylphthalate | – | -- | No | 29,000 | | ND | No | No |
| Di-n-Butylphthalate | – | -- | No | 3,700 | | ND | No | No |
| Di-n-Octylphthalate | – | -- | No | 3,700 | | ND | No | No |
| Dinoseb | – | -- | YES | 37 | | ND | YES | No |
| Disulfoton | – | -- | YES | 1.5 | | ND | YES | YES |
| Ethyl Methanesulfonate | – | -- | NA | NA | | ND | NA | NA |
| Ethyl Parathion | – | -- | No | 220 | | ND | YES | No |
| Famphur | – | -- | NA | NA | | ND | NA | NA |
| Fluoranthene | – | -- | No | 1,500 | | ND | No | No |
| Fluorene | – | -- | No | 1,500 | | ND | No | No |
| Hexachlorobenzene | – | -- | YES | 0.04 | | ND | YES | YES |
| Hexachlorobutadiene | – | -- | YES | 0.86 | | ND | YES | YES |
| Hexachlorocyclopentadiene | – | -- | No | 220 | | ND | YES | No |
| Hexachloroethane | – | -- | YES | 4.8 | | ND | YES | YES |
| Hexachlorophene | – | -- | YES | 11 | | ND | YES | YES |
| Hexachloropropene | – | -- | NA | NA | | ND | NA | NA |
| Indeno(1,2,3-cd)pyrene | – | -- | YES | 0.03 | | ND | YES | YES |
| Isophorone | – | -- | No | 71 | | ND | YES | No |
| Isosafrole | – | -- | NA | NA | | ND | NA | NA |
| Methapyrilene | – | -- | NA | NA | | ND | NA | NA |

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Table 2. Combined Groundwater Screening Evaluation, Revised Phase I Sa

| Constituent [a] | | Max Detect | Location Maximur Detectio | oes min DL exceed MDEQ? | USEPA RSL [c] | Surrogate Value | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|---|
| | | | 201 | | | | | | |
| Methyl Methanesulfonate | | – | – | NA | 0.68 | | ND | YES | YES |
| Methyl Parathion | | – | – | YES | 9.1 | | ND | YES | YES |
| Naphthalene | | – | – | YES | 0.14 | | YES | YES | YES |
| Nitrobenzene | | – | – | YES | 0.12 | | ND | YES | YES |
| N-Nitrosodiethylamine | | – | – | YES | 0.0001 | | ND | YES | YES |
| N-Nitrosodimethylamine | | – | – | YES | 0.0004 | | ND | YES | YES |
| N-Nitroso-di-n-butylamine | | – | – | YES | 0.002 | | ND | YES | YES |
| N-Nitroso-di-n-propylamine | | – | – | YES | 0.01 | | ND | YES | YES |
| N-Nitrosodiphenylamine | | – | – | No | 14 | | ND | YES | No |
| N-Nitrosomethylethylamine | | – | – | YES | 0.003 | | ND | YES | YES |
| N-Nitrosomorpholine | | – | – | NA | 0.01 | | ND | YES | YES |
| N-Nitrosopiperidine | | – | – | NA | 0.007 | | ND | YES | YES |
| N-Nitrosopyrrolidine | | – | – | YES | 0.03 | | ND | YES | YES |
| o,o,o-Triethylphosphorothioate | | 12,000 | MW-17(7/26/: | NA | NA | | NA | NA | NA |
| o-Toluidine | | – | – | YES | NA | | ND | NA | NA |
| p-Dimethylaminoazobenzene | | – | – | NA | 0.02 | | ND | YES | YES |
| Pentachlorobenzene | | – | – | No | 29 | | ND | YES | No |
| Pentachloronitrobenzene | | – | – | YES | 0.26 | | ND | YES | YES |
| Pentachlorophenol | | – | – | YES | 0.17 | | ND | YES | YES |
| Phenacetin | | – | – | NA | 31 | | ND | YES | No |
| Phenanthrene | | – | – | No | 11,000 | | ND | No | No |
| Phenol | | 140 | MW-23(7/26/: | No | 11,000 | | No | No | No |
| Phorate | | – | – | NA | 7.3 | | ND | YES | YES |
| Pronamide | | – | – | NA | 2,700 | | ND | No | No |
| Pyrene | | – | – | No | 1,100 | | ND | No | No |
| Pyridine | | – | – | YES | 37 | | ND | YES | YES |
| Safrole | | – | – | NA | 0.31 | | ND | YES | YES |
| Sulfotep | | – | – | NA | 18 | | ND | YES | No |
| Thionazin | | – | – | NA | NA | | ND | NA | NA |
| **Dioxins (pg/L)** | | | | | | | | | |
| 2,3,7,8-TCDD | | – | – | YES | 0.52 | | ND | YES | YES |
| Total TEQ | | – | – | No | 0.52 | | ND | No | No |
| **Inorganics (µg/L)** | | | | | | | | | |
| Antimony | | – | – | No | 15 | | ND | No | No |
| Arsenic | | 42 | MW-08(7/26/: | No | 0.05 | | YES | YES | YES |
| Barium | | 260 | MW-08(7/26/: | ND | 7,300 | | No | ND | ND |
| Beryllium | | 3.3 | MW-23(7/26/: | No | 73 | | No | No | No |
| Cadmium | | – | – | No | 18 | | ND | No | No |
| Chromium | [l] | 5.0 | MW-23(7/26/: | No | 0.04 | [l] | YES | YES | YES |
| Cobalt | | 4.2 | MW-02(7/27/: | No | 11 | | No | No | No |
| Copper | | – | – | No | 1,500 | | ND | No | No |
| Lead | | – | – | No | 0.24 | | ND | YES | YES |
| Nickel | | 9.7 | MW-12(7/27/: | No | 730 | | No | No | No |
| Selenium | | – | – | No | 180 | | ND | No | No |
| Silver | | – | – | No | 180 | | ND | No | No |
| Thallium | | – | – | No | 0.37 | | ND | YES | YES |
| Tin | | – | – | No | 22,000 | | ND | No | No |
| Vanadium | | 16 | MW-23(7/26/: | No | NA | | NA | NA | NA |
| Zinc | | 57 | MW-19(7/26/: | No | 11,000 | | No | No | No |
| **Inorganics (µg/L)** | | | | | | | | | |
| Mercury | | – | – | No | 0.63 | | ND | No | No |
| **Miscellaneous (mg/L)** | | | | | | | | | |
| Sulfide | | 7.9 | MW-23(7/26/: | NA | NA | | NA | NA | NA |
| **Miscellaneous (mg/L)** | | | | | | | | | |
| Cyanide | | – | – | No | 0.73 | | ND | No | No |

– Not detected/ not analyzed/ r
µg/L Micrograms per Liter.
ND Non-detects
NA Not analyzed/not applicable.
MDEQ Mississippi Department of Er

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Table 2. Combined Groundwater Screening Evaluation, Revised Phase I S

| Constituent [a] | Max Detect | Location Maximu Detecti | 2( Does min DL exceed MDEQ? | USEPA RSL [c] | Surrogate Value | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|
| TRG | Target Remediation Goal. | | | | | | | |
| USEPA | U.S. Environmental Protect | | | | | | | |
| RSL | Regional Screening Levels | | | | | | | |
| DL | Detection limit. | | | | | | | |
| TEQ | Toxic equivalent. | | | | | | | |
| [a] | Only constituents detected | | | | | | | |
| | For duplicate samples, the | | | | | | | |
| [b] | TRG groundwater values s | 2002). | | | | | | |
| [c] | USEPA RSLs (June, 2011) | | | | | | | |
| [d[ | Technical BHC used as a s | | | | | | | |
| [e] | Endosufan used as a surro | | | | | | | |
| [f] | Endrin used as a surrogate | | | | | | | |
| [g] | Aldrin used as a surrogate. | | | | | | | |
| [h] | 1,3-Dichloropropene used | | | | | | | |
| [i] | Bromomethane is used as | | | | | | | |
| [j] | 1,4-Dichloro-2-butene used | | | | | | | |
| [k] | 2,4-Dinitrophenol used as | | | | | | | |
| [l] | RSL for chromium (VI) use | | | | | | | |

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Table 3. Combined Surface Water Screening Evaluation, Revised Phas

| Constituent [a] | | New Units | Max Detect | 2011 Loc[n] Ma[d] De | USEPA RSL [c] | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds (µg/L)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | µg/L | – | | 0.52 | ND | YES | YES |
| 1,1,1-Trichloroethane | | µg/L | – | | 9,100 | ND | No | No |
| 1,1,2,2-Tetrachloroethane | | µg/L | – | | 0.067 | ND | YES | YES |
| 1,1,2-Trichloroethane | | µg/L | – | | 0.24 | ND | YES | YES |
| 1,1-Dichloroethane | | µg/L | – | | 2.4 | ND | No | No |
| 1,1-Dichloroethene | | µg/L | – | | 340 | No | No | No |
| 1,2,3-Trichlorobenzene | [d] | µg/L | NA | | 29 | YES | No | No |
| 1,2,4-Trichlorobenzene | | µg/L | NA | | 2.3 | YES | YES | YES |
| 1,2,4-Trimethylbenzene | | µg/L | NA | | 15 | No | No | No |
| 1,3,5-Trimethylbenzene | | µg/L | NA | | 370 | No | No | No |
| 1,2,3-Trichloropropane | | µg/L | – | | 0.0007 | ND | YES | YES |
| 1,2-Dibromo-3-Chloropropane | | µg/L | – | | 0.0003 | ND | YES | YES |
| 1,2-Dichlorobenzene | | µg/L | NA | | 370 | No | No | No |
| 1,3-Dichlorobenzene | | µg/L | NA | | 370 | No | No | No |
| 1,4-Dichlorobenzene | | µg/L | NA | | 0.43 | YES | YES | YES |
| 1,2-Dichloroethane | | µg/L | – | | 0.15 | YES | YES | YES |
| 1,2-Dichloropropane | | µg/L | – | | 0.39 | ND | YES | YES |
| 2-Butanone (MEK) | | µg/L | – | | 7,100 | ND | No | No |
| 2-Chloro-1,3-butadiene | | µg/L | – | | 0.02 | ND | YES | YES |
| 2-Chlorotoluene | | µg/L | NA | | 730 | No | No | No |
| 4-Chlorotoluene | [e] | µg/L | NA | | 730 | No | No | No |
| 2-Hexanone | | µg/L | – | | 47 | ND | No | No |
| 3-Chloro-1-propene | | µg/L | – | | 0.65 | ND | YES | YES |
| 4-Methyl-2-pentanone (MIBK) | | µg/L | – | | 2,000 | ND | No | No |
| Acetone | | µg/L | – | | 22,000 | No | No | No |
| Acetonitrile | | µg/L | – | | 130 | ND | No | No |
| Acrolein | | µg/L | – | | 0.04 | ND | YES | YES |
| Acrylonitrile | | µg/L | – | | 0.05 | ND | YES | YES |
| Benzene | | µg/L | – | | 0.41 | YES | YES | YES |
| Bromoform | | µg/L | – | | 8.5 | ND | YES | No |
| Bromobenzene | [f] | µg/L | NA | | 88 | No | No | No |
| Bromodichloromethane | | µg/L | NA | | 0.12 | ND | YES | YES |
| Bromomethane | | µg/L | – | | 8.7 | ND | YES | No |
| Carbon disulfide | | µg/L | – | | 1,000 | ND | No | No |
| Carbon tetrachloride | | µg/L | – | | 0.44 | YES | YES | YES |
| Chlorobenzene | | µg/L | – | | 91 | No | No | No |
| Chlorodibromomethane | | µg/L | – | | 0.15 | ND | YES | YES |
| Chloroethane | | µg/L | – | | 21,000 | No | No | No |
| Chloroform | | µg/L | – | | 0.19 | YES | YES | YES |
| Chloromethane | | µg/L | – | | 190 | ND | No | No |
| cis-1,2-Dichloroethene | | µg/L | 7.6 | CM-04( | 73 | No | No | No |
| cis-1,3-Dichloropropene | [g] | µg/L | – | | 0.43 | ND | YES | YES |
| Dibromochloromethane | | µg/L | NA | | 0.15 | ND | YES | YES |
| Dibromomethane | | µg/L | – | | 8 | ND | No | No |
| Dichlorobromomethane | | µg/L | – | | 0.12 | ND | YES | YES |
| Dichlorodifluoromethane | | µg/L | – | | 200 | ND | No | No |
| Ethyl methacrylate | | µg/L | – | | 530 | ND | No | No |
| Ethylbenzene | | µg/L | – | | 1.5 | YES | YES | No |
| Ethylene Dibromide | | µg/L | – | | 0.007 | ND | YES | YES |
| Iodomethane | [h] | µg/L | – | | 8.7 | ND | No | No |
| Isobutyl alcohol | | µg/L | – | | 11,000 | ND | No | No |
| Isopropylbenzene | | µg/L | NA | | 680 | ND | No | No |

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Table 3. Combined Surface Water Screening Evaluation, Revised Pha

| Constituent [a] | | New Units | Max Detect | 2011 Lo in Mi ed Di | USEPA RSL [c] | Does max detect exceed RSL? | Does max DL exceed RSL? | Does min DL exceed RSL? |
|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | | µg/L | NA | | 680 | ND | No | No |
| Methacrylonitrile | | µg/L | – | | 1.0 | ND | YES | YES |
| Methyl ethyl ketone | | µg/L | NA | | 7,100 | No | No | No |
| Methyl isobutyl ketone | | µg/L | NA | | 2,000 | ND | No | No |
| Methyl methacrylate | | µg/L | – | | 1,400 | ND | No | No |
| Methylene Chloride | | µg/L | – | | 4.8 | ND | YES | YES |
| Naphthalene | | µg/L | NA | | 0.14 | ND | ND | ND |
| Pentachloroethane | | µg/L | – | | 0.75 | ND | YES | YES |
| Propionitrile | | µg/L | – | | NA | ND | NA | NA |
| Styrene | | µg/L | – | | 1,600 | No | No | No |
| Tetrachloroethene | | µg/L | – | | 0.11 | YES | YES | YES |
| Toluene | | µg/L | – | | 2,300 | No | No | No |
| trans-1,2-Dichloroethene | | µg/L | – | | 110 | ND | No | No |
| trans-1,3-Dichloropropene | [g] | µg/L | – | | 0.43 | ND | YES | YES |
| trans-1,4-Dichloro-2-butene | [i] | µg/L | – | | 0.001 | ND | YES | YES |
| Trichloroethene | | µg/L | – | | 2.0 | YES | YES | No |
| Trichlorofluoromethane | | µg/L | – | | 1,300 | ND | No | No |
| Vinyl acetate | | µg/L | – | | 410 | ND | No | No |
| Vinyl chloride | | µg/L | 3.2 | CM-0 | 0.02 | YES | YES | YES |
| Xylenes, Total | | µg/L | – | | 200 | ND | No | No |

| | |
|---|---|
| – | Not detected/ not analyzed/ not |
| µg/L | Micrograms per Liter. |
| ND | Non-detects. |
| NA | Not analyzed/not applicable. |
| MDEQ | Mississippi Department of Envi |
| TRG | Target Remediation Goal. |
| USEPA | U.S. Environmental Protection |
| RSL | Regional Screening Levels. |
| DL | Detection limit. |
| [a] | Only constituents detected at le<br>For duplicate samples, the high |
| [b] | TRG groundwater values sourcry, 2002). |
| [c] | USEPA RSLs (June, 2011). |
| [d] | TRG for 1,2,4-trichlorobenzene |
| [e] | 2-Chlorotoluene used as a surr |
| [f] | TRG for chlorobenzene used a |
| [g] | 1,3-Dichloropropene used as a |
| [h] | Bromomethane is used as a su |
| [i] | 1,4-Dichloro-2-butene used as |

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Table 4. Wells Listed in EDR Database Within Half-Mile of the Site, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg Facility, Hattiesburg, Forrest County, Mississippi.

| SITE ID | STATE | LOCATION | MAP ID | WELL DEPTH | TYPE | DIAMETER | SCREEN LENGTH | AQUIFER | DATE CONSTRUCTED | OWNER |
|---|---|---|---|---|---|---|---|---|---|---|
| USGS2404627 | NA | On-Site | 160 | 654 | NA | NA | NA | Catahoula Formation, Middle | 3/7/1990 | NA |
| MSC100000048799 | MS | On-Site | 161 | 668 | IN | 16 | NA | Catahoula Aquifer | 6/20/1996 | Hercules Incorporated |
| USGS2404617 | NA | On-Site | 161 | 668 | NA | NA | NA | Catahoula Aquifer | 6/20/1996 | NA |
| MSC100000048752 | MS | Half-Mile | 164 | 650 | IN | 8 | 30 | Middle Catahoula | NA | Zeon Chemicals |
| USGS2404604 | NA | On-Site | 164 | 641 | NA | NA | NA | Catahoula Formation, Middle | 1/15/1988 | NA |
| MSP300000000964 | MS | On-Site | 166 | 640 | IN | NA | NA | Miocene Aquifer System | NA | Hercules Incorporated |
| MSC100000048730 | MS | On-Site | 166 | 640 | IN | 16 | NA | Miocene Aquifer System | 7/10/1996 | Hercules Incorporated |
| MSC100000048729 | MS | On-Site | 166 | 671 | AB | 18 | NA | Miocene Aquifer System | 3/1/1967 | Hercules Incorporated |
| MSP300000000963 | MS | On-Site | 166 | 671 | AB | NA | NA | Miocene Aquifer System | NA | Hercules Incorporated |
| MSC100000048700 | MS | On-Site | 168 | 466 | IN | 18 | NA | Miocene Aquifer System | 5/2/1980 | Hercules Incorporated |
| MSP300000000962 | MS | On-Site | 168 | 466 | IN | NA | NA | Miocene Aquifer System | NA | Hercules Incorporated |
| MSP300000000957 | MS | On-Site | 184 | 687 | IN | NA | NA | Miocene Aquifer System | NA | Hercules Incorporated |
| MSC100000048469 | MS | On-Site | 184 | 687 | Not Renewed | 10 | NA | Miocene Aquifer System | 9/1/1965 | NA |
| MSPR30000014908 | MS | Half-Mile | 136 | 94 | NA | NA | NA | NA | NA | NA |
| USGS2404573 | | Half-Mile | 136 | 94 | NA | NA | NA | Hattiesburg Formation | 1971 | NA |
| MSC100000049200 | MS | Half-Mile | 136 | 94 | Domestic | 2 | NA | Hattiesburg Formation | 1971 | NA |
| MSP300000000987 | MS | Half-Mile | 139 | NA | IN | NA | NA | NA | NA | Hercules Incorporated |
| MSC100000049139 | MS | Half-Mile | 142 | 91 | IN | 4 | NA | Hattiesburg Formation | 11/14/2005 | Ben Stevens |
| MSC100000049137 | MS | Half-Mile | 142 | 91 | IN | 4 | 20 | Hattiesburg Formation | 11/14/2005 | Ben Stevens |
| MSC100000049138 | MS | Half-Mile | 142 | 92 | IN | 4 | 20 | NA | 11/12/2005 | Ben Stevens |
| USGS2404666 | | Half-Mile | 153 | 422 | NA | NA | NA | Catahoula Formation, Upper | NA | NA |
| MSP300000000970 | MS | Half-Mile | 153 | 422 | IN | NA | NA | Miocene Aquifer System | NA | Murray Envelope Corporation |
| MSC100000049015 | MS | Half-Mile | 153 | 422 | NA | 6 | NA | Miocene Aquifer System | 7/11/1968 | Murray Envelope Corporation |
| MSC100000049003 | MS | Half-Mile | 155 | 265 | IN | 4 | NA | Hattiesburg Formation | 4/14/1993 | Murray Envelope Corporation |
| USGS2404656 | NA | Half-Mile | 155 | 265 | NA | NA | NA | NA | 4/14/1993 | NA |
| MSC100000048829 | MS | Half-Mile | 158 | 138 | Domestic | 2 | NA | Hattiesburg Formation | 1/1/1957 | Kennison |
| USGS2404628 | NA | Half-Mile | 158 | 138 | NA | NA | NA | Hattiesburg Formation | 1/1/1957 | NA |
| MSPR30000014728 | MS | Half-Mile | 158 | 138 | NA | NA | NA | 122HBRG | NA | NA |

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Table 4. Wells Listed in EDR Database Within Half-Mile of the Site, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg Facility, Hattiesburg, Forrest County, Mississippi.

| SITE ID | STATE | LOCATION | MAP ID | WELL DEPTH | TYPE | DIAMETER | SCREEN LENGTH | AQUIFER | DATE CONSTRUCTED | OWNER |
|---|---|---|---|---|---|---|---|---|---|---|
| MSC100000048830 | MS | Half-Mile | 159 | 105 | IN | 4 | NA | Alluvial Deposits | 1/1/1967 | Murray Envelope Corporation |
| USGS2404626 | NA | Half-Mile | 159 | 105 | NA | NA | NA | Alluvial Deposits | 1/1/1967 | NA |
| USGS2404625 | NA | Half-Mile | 159 | 671 | NA | NA | NA | Catahoula Formation, Middle | 1/1/1967 | NA |
| MSP300000000961 | MS | Half-Mile | 169 | 650 | IN | NA | NA | Miocene Aquifer System | NA | Zeon Chemicals Mississippi, Inc. |
| MSC100000048682 | MS | Half-Mile | 169 | 654 | IN | 20 | NA | Middle Catahoula | 6/13/1991 | Zeon Chemicals |
| MSC100000048621 | MS | Half-Mile | 174 | 350 | Domestic | 2 | 20 | NA | 6/12/1979 | Mr. Mitchell Smith |
| MSC100000048622 | MS | Half-Mile | 175 | 325 | Unused | 8 | NA | Upper Catahoula | 1/1/1947 | Coastal Chem Co. |
| USGS2404579 | NA | Half-Mile | 175 | 325 | NA | NA | NA | Catahoula Formation, Upper | 1/1/1947 | NA |
| MSP300000000960 | MS | Half-Mile | 178 | 353 | AB | NA | NA | Miocene Aquifer System | NA | Mississippi Chemical Corporation |
| MSC100000048596 | MS | Half-Mile | 178 | 353 | AB | 8 | NA | Miocene Aquifer System | 4/1/1965 | Mississippi Chemical Corporation |
| MSC100000048483 | MS | Half-Mile | 181 | 501 | Unused | 8 | NA | Upper Catahoula | 1/1/1943 | Dixie Pine Prod |
| USGS2404744 | NA | Half-Mile | 181 | 501 | NA | NA | NA | Catahoula Formation, Upper | 1/1/1943 | NA |
| USGS2404743 | NA | Half-Mile | 183 | 687 | NA | NA | NA | Catahoula Formation, Middle | 1/1/1965 | NA |
| MSC100000048345 | MS | Half-Mile | 207 | 576 | Domestic | 5 | NA | Middle Catahoula | 1/1/1954 | Leon Pringle |
| MSPR30000014563 | MS | Half-Mile | 207 | 576 | NA | NA | NA | 122CTHLM | NA | NA |
| USGS2404688 | NA | Half-Mile | 207 | 576 | NA | NA | NA | Catahoula Formation, Middle | 1/1/1954 | NA |

Note: This table was created by compiling data provided in the June 2, 2011, EDR DataMap™ Well Search Report (Inquiry No. 3078218.1w).

AB Abandoned.

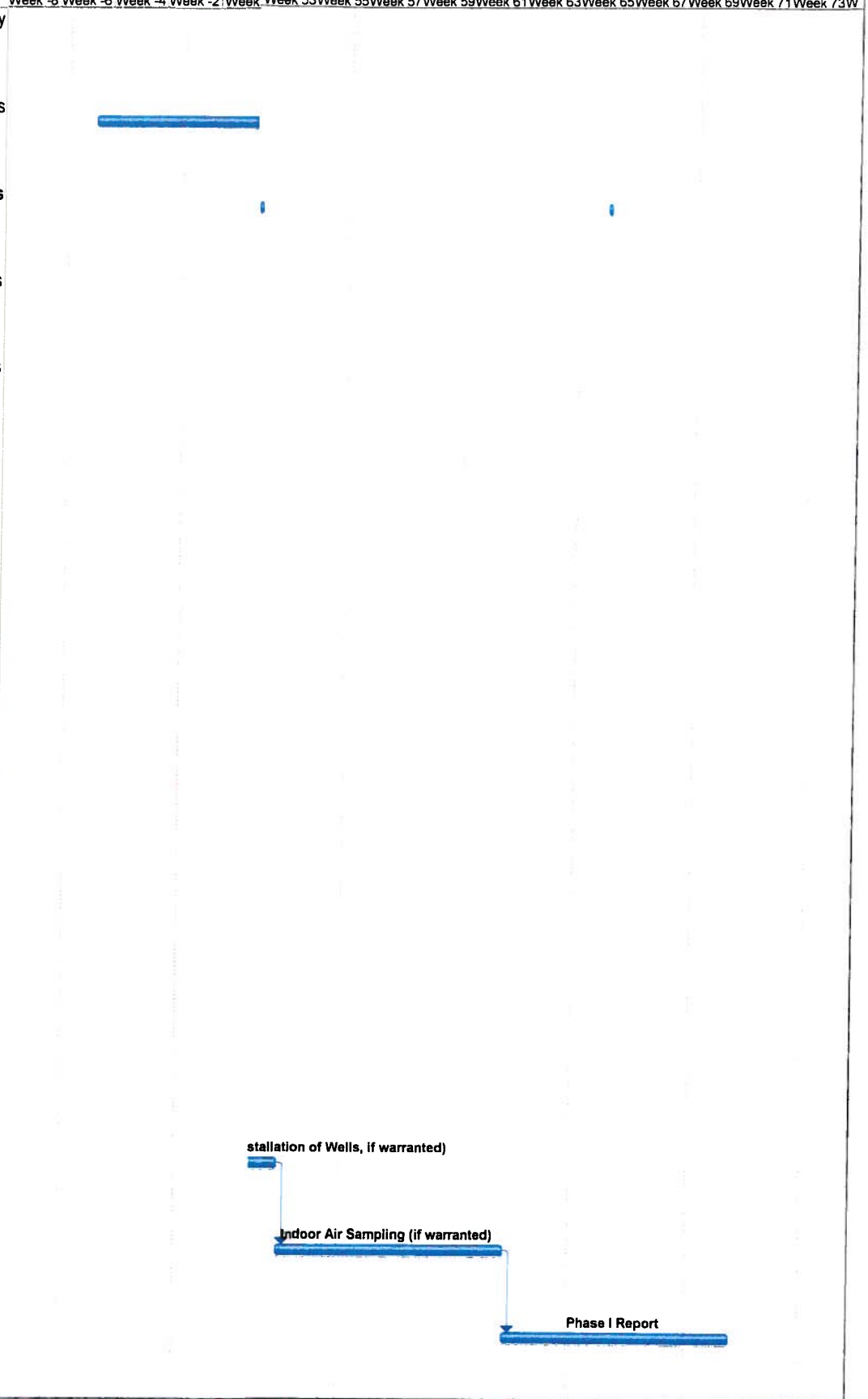
IN Industrial.

MS Mississippi.

NA Data not available in public database.

Table 5. Preliminary Project Schedule, Revised Phase I Sampling and Analysis Work Plan, Hei

| ID | Task Name | Duration |
|---|---|---|
| 1 | Approval of Work Plan | 1 day |
| 2 | Water Well Search | 180 days |
| 3 | **Quarterly Progress Report Period *** | **367 days** |
| 9 | Water Body Survey | 21 days |
| 10 | Access Agreements | 60 days |
| 11 | Subcontractor Procurement | 45 days |
| 12 | Water Well Sampling | 45 days |
| 13 | Surface Water/Sediment Sampling | 45 days |
| 14 | Soil/Groundwater Sampling | 60 days |
| 15 | Soil Gas Sampling | 45 days |
| 16 | Laboratory Analysis | 45 days |
| 17 | Evaluation of Data/Additional Sampling (Installation of Wells, if warranted) | 60 days |
| 18 | Soil Gas Sampling (if warranted) | 30 days |
| 19 | Evaluation of Data/Additional Sampling (Installation of Wells, if warranted) | 30 days |
| 20 | Indoor Air Sampling (if warranted) | 60 days |
| 21 | Phase I Report | 60 days |




* Monthly reports will be submitted during periods of increased activity.

Date: 9/16/2011

Task

Split

Note. Additional time may be warranted if additional delineation is necessary. Sampling offsite

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Table 6. Proposed Surface Water and Sediment Sample Location Rationale, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Sample Location | Area | Relationship of Flow Direction to Hercules | Rationale |
|---|---|---|---|
| AO-SW-01 | Drainage A | Upgradient | Water flowing onto Hercules from Greens Creek. |
| AO-SD-01 | | | |
| AO-SW-02 | Drainage A | Upgradient | Water flowing onto Hercules from Greens Creek. |
| AO-SD-02 | | | |
| AO-SW-03 | Drainage A | Upgradient | Water flowing onto Hercules from Greens Creek. |
| AO-SD-03 | | | |
| AO-SW-04 | Drainage A | Upgradient | Water flowing onto Hercules from Greens Creek. |
| AO-SD-04 | | | |
| AO-SW-05 | Drainage A | Upgradient | Water flowing onto Hercules from Greens Creek. |
| AO-SD-05 | | | |
| AO-SW-06 | Drainage A | Downgradient | Greens Creek water flowing to Bouie River from Hercules. |
| AO-SD-06 | | | |
| AO-SW-07 | Drainage A | Downgradient | Greens Creek water flowing to Bouie River from Hercules. |
| AO-SD-07 | | | |
| AO-SW-08 | Drainage A | Downgradient | Greens Creek water flowing to Bouie River from Hercules. |
| AO-SD-08 | | | |
| AO-SW-09 | Drainage A | Downgradient | Greens Creek water flowing to Bouie River from Hercules. |
| AO-SD-09 | | | |

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Table 6. Proposed Surface Water and Sediment Sample Location Rationale, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Sample Location | Area | Relationship of Flow Direction to Hercules | Rationale |
|---|---|---|---|
| AO-SW-10 | Drainage A | Downgradient | Greens Creek water flowing to Bouie River from Hercules. |
| AO-SD-10 | | | |
| AO-SW-11 | Drainage B | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SD-11 | | | |
| AO-SW-12 | Drainage B | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SD-12 | | | |
| AO-SW-13 | Drainage B | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SD-13 | | | |
| AO-SW-14 | Drainage B | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SD-14 | | | |
| AO-SW-15 | Drainage C | Downgradient | Water flowing from Drainage C to Bouie River. |
| AO-SD-15 | | | |
| AO-SW-16 | Drainage C | Downgradient | Water flowing from Drainage C to Bouie River. |
| AO-SD-16 | | | |
| AO-SS-01 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-02 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-03 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-04 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |

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Table 6. Proposed Surface Water and Sediment Sample Location Rationale, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Sample Location | Area | Relationship of Flow Direction to Hercules | Rationale |
|---|---|---|---|
| AO-SS-05 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-06 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-07 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-08 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |
| AO-SS-08 | Drainage C | Downgradient | Water flowing to Bouie River from Hercules. |

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Table 7. Proposed Groundwater and Soil Sample Location Rationale, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Sample Location | Area | Rationale |
|---|---|---|
| AO-GP-03 | Southwestern Property Boundary near Zeon Chemicals and the Cemetery. | Establish conditions near the property boundary adjacent to Zeon Chemicals. |
| AO-GP-04 | Southwestern Property Boundary near Zeon Chemicals and the Cemetery. | Establish conditions near the property boundary adjacent to cemetery. |
| AO-GP-19 | Southeast Corner of Hercules near Providence Street and 9th Street. | Establish conditions near Providence Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-20 | Southern Property Boundary near 7th Street. | Establish conditions near 8th Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-21 | Southeast Corner of Hercules near Providence Street. | Establish conditions near 8th Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-22 | Southeast Corner of Hercules near Providence Street. | Establish conditions near 8th Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-23 | Southeast Corner of Hercules near Providence Street and 9th Street. | Establish conditions near Providence Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-24 | Southeast Corner of Hercules near Providence Street and 9th Street. | Establish conditions near Providence Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-25 | Southeast Corner of Hercules near Providence Street and 9th Street. | Establish conditions near Providence Street property boundary in an area downgradient of groundwater flow. |
| AO-GP-27 | Western Property Boundary near Greens Creek Entrance onto Hercules. | Establish conditions near property boundary and utility corridor in an area downgradient of groundwater flow. |
| AO-GP-28 | Southeastern Property Boundary near Providence Street. | Establish offsite conditions near Providence Street property boundary in an area downgradient of groundwater flow. |

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-2 May-09 ug/L | MW-2 Dec-09 ug/L | MW-2 May-10 ug/L | MW-2 Nov-10 ug/L | MW-3 May-09 ug/L | MW-3 Dec-09 ug/L | MW-3 May-10 ug/L | MW-3 Nov-10 ug/L | MW-4 May-09 ug/L | MW-4 Dec-09 ug/L | MW-4 May-10 ug/L | MW-4 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 7.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 1,730 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 1.8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 3.5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3,826 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 15.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 81,042 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 2,095 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 2,321,429 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3$/L).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3$/L = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-5 May-09 ug/L | MW-5 Dec-09 ug/L | MW-5 May-10 ug/L | MW-5 Dec-10 ug/L | MW-6 May-09 ug/L | MW-6 Dec-09 ug/L | MW-6 May-10 ug/L | MW-6 Dec-10 ug/L | MW-7 May-10 ug/L | MW-7 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | <25 | <25 | <25 | 27 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 7.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 1,730 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 1.8 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 3.5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3,826 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 15.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 81,042 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 2,095 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 2,321,429 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.
RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).
CF = conversion factor (0.001 $m^3$/L).
HLC = Henry's Law Constant (unitless and constituent-specific).
AF = attenuation factor (0.001).
ug/L = micrograms per liter.
$m^3$/L = cubic meters per liter.
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-8 May-09 ug/L | MW-8 Dec-09 ug/L | MW-8 May-10 ug/L | MW-8 Dec-10 ug/L | MW-9 May-09 ug/L | MW-9 Dec-09 ug/L | MW-9 May-10 ug/L | MW-9 Dec-10 ug/L | MW-10 May-09 ug/L | MW-10 Dec-09 ug/L | MW-10 May-10 ug/L | MW-10 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | <620 | <620 | <250 | <1200 | <25 | 210 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 7.1 | 540 | <1000 | 2900 | 6000 | 1.1 | 1.6 | <1 | 3 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 1,730 | 110 | 180 | 180 | 150 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 1.8 | 2,300 | 2,700 | 8,000 | 1,000 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 3.5 | 1,300 | 610 | 1,400 | 300 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 10 | <25 | <25 | 63 | <50* | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3,826 | <25 | <25 | <10* | <50* | <1 | <1 | <1 | 1.3 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 15.3 | <25 | 68 | 22 | 74 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 81,042 | <25 | 43 | 10 | <50 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 2,095 | <25 | 95 | <20 | <100 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 200 | <125 | 380 | 230 | 560 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 2,321,429 | <250 | <250 | <100 | <500 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3$/L).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3$/L = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location / Date / Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-11 May-10 ug/L | MW-11 Dec-10 ug/L | MW-12 May-09 ug/L | MW-12 Dec-09 ug/L | MW-12 May-10 ug/L | MW-12 Dec-10 ug/L | MW-13 May-10 ug/L | MW-13 Dec-10 ug/L | MW-14 May-09 ug/L | MW-14 Dec-09 ug/L | MW-14 May-10 ug/L | MW-14 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | <25 | <25 | 28 | <25 | <25 | <25 | <500 | <250 | 260 | <25 | <25 | <25 |
| Benzene | 7.1 | <1 | <1 | <1 | <1 | <1 | <1 | 2,600 | 530 | <2 | <1 | <1 | <1 |
| Chlorobenzene | 1,730 | <1 | <1 | <1 | <1 | <1 | <1 | 110 | 25 | <2 | <1 | <1 | <1 |
| Carbon Tetrachloride | 1.8 | <1 | <1 | <1 | <1 | <1 | <1 | 4,000 | 970 | <2 | <1 | <1 | <1 |
| Chloroform | 3.5 | <1 | <1 | <1 | <1 | <1 | <1 | 1,900 | 230 | <2 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 10 | <1 | <1 | <1 | <1 | <1 | <1 | <20* | <10* | <2 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3,826 | <1 | <1 | <1 | <1 | <1 | <1 | <20* | <10* | <2 | <1 | <1 | <1 |
| Ethylbenzene | 15.3 | <1 | <1 | <1 | <1 | <1 | <1 | <20 | <10 | <2 | <1 | <1 | <1 |
| Toluene | 81,042 | <1 | <1 | <1 | <1 | <1 | <1 | <20 | <10 | <2 | <1 | <1 | <1 |
| Total Xylenes | 2,095 | <2 | <2 | <2 | <2 | <2 | <2 | <40 | <20 | <4 | <2 | <2 | <2 |
| Methylene Chloride | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <100* | <50* | <10 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 2,321,429 | <10 | <10 | <10 | <10 | <10 | <10 | <200* | <100 | <20 | <10 | <10 | <10 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3$/L).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3$/L = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

ARCADIS

Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location / Date / Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-15 May-09 ug/L | MW-15 Dec-09 ug/L | MW-15 May-10 ug/L | MW-15 Dec-10 ug/L | MW-16 May-09 ug/L | MW-16 Dec-09 ug/L | MW-16 May-10 ug/L | MW-16 Dec-10 ug/L | MW-17 May-10 ug/L | MW-17 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | 1300 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <2,500* | <12000 |
| Benzene | 7.1 | <5 | <1 | <1 | <1 | <1 | <1 | 1.1 | <1 | 7,500 | <500 |
| Chlorobenzene | 1,730 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 740 | 760 |
| Carbon Tetrachloride | 1.8 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 40,000 | 32,000 |
| Chloroform | 3.5 | <5 | <1 | <1 | <1 | <1 | <1 | 1.3 | <1 | 8,400 | 5,900 |
| 1,2-Dichloroethane | 10 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <100* | <500 |
| 1,1-Dichloroethene | 3,826 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <100* | <500 |
| Ethylbenzene | 15.3 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 230 | <500 |
| Toluene | 81,042 | <5 | <1 | <1 | <1 | <1 | <1 | 3.5 | <1 | 520 | <500 |
| Total Xylenes | 2,095 | <10 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 830 | <1000 |
| Methylene Chloride | 200 | <25 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 660 | <2500 |
| Methyl Isobutyl Ketone | 2,321,429 | <50 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <1,000* | <5000 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3$/L).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3$/L = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location / Date / Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-18 May-09 ug/L | MW-18 Dec-09 ug/L | MW-18 May-10 ug/L | MW-18 Dec-10 ug/L | MW-19 May-10 ug/L | MW-19 Dec-10 ug/L | MW-20 Sep-09 ug/L | MW-20 May-10 ug/L | MW-20 Dec-10 ug/L | MW-21 Sep-09 ug/L | MW-21 May-10 ug/L | MW-21 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <1,200* | <1,200* | <1200 |
| Benzene | 7.1 | <1 | <1 | 1.1 | <1 | 52 | 61 | <1 | <1 | <1 | 4400 | 3500 | 4400 |
| Chlorobenzene | 1,730 | 24 | 21 | 20 | 18 | 10 | 9.1 | <1 | <1 | <1 | 170 | 150 | 180 |
| Carbon Tetrachloride | 1.8 | <1 | <1 | <1 | <1 | 3.2 | <1 | <1 | <1 | <1 | <50 | 280 | <50 |
| Chloroform | 3.5 | <1 | <1 | <1 | <1 | 3.6 | 2.7 | <1 | <1 | <1 | 6800 | 7800 | 7300 |
| 1,2-Dichloroethane | 10 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <50* | <50* | 84 |
| 1,1-Dichloroethene | 3,826 | <1 | <1 | 1 | <1 | 1.4 | <1 | <1 | <1 | <1 | <50* | <50* | <50 |
| Ethylbenzene | 15.3 | <1 | <1 | <1 | <1 | 1.9 | 2.2 | <1 | <1 | <1 | <50 | <50 | <50 |
| Toluene | 81,042 | <1 | <1 | <1 | <1 | 3 | 2.5 | <1 | <1 | <1 | 4800 | 4500 | 4500 |
| Total Xylenes | 2,095 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <100 | <100 | <100 |
| Methylene Chloride | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <250* | <250* | <250* |
| Methyl Isobutyl Ketone | 2,321,429 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 640 | <500* | 510 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3/L$).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3/L$ = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 8. Calculation of Groundwater to Indoor Air Screening Levels, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location / Date / Units | GW to IA Screening Levels ($1 \times 10^{-6}$) ug/L | MW-22 Sep-09 ug/L | MW-22 May-10 ug/L | MW-22 Dec-10 ug/L | MW-23 Sep-09 ug/L | MW-23 May-10 ug/L | MW-23 Dec-10 ug/L | MW-24 Sep-09 ug/L | MW-24 May-10 ug/L | MW-24 Dec-10 ug/L |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 100,000,000 | 86 | <25 | <25 | 1,600* | <2,500* | <2,500* | <25 | <25 | <25 |
| Benzene | 7.1 | 9.8 | 6.6 | 6.3 | 9200 | 10000 | 7600 | <1 | <1 | <1 |
| Chlorobenzene | 1,730 | 7.7 | 4.9 | 2.3 | 190 | 180 | <100 | <1 | <1 | <1 |
| Carbon Tetrachloride | 1.8 | <1 | <1 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| Chloroform | 3.5 | <1 | <1 | <1 | 1400 | 2000 | 2900 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 10 | <1 | <1 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3,826 | <1 | <1 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| Ethylbenzene | 15.3 | <1 | <1 | <1 | <50 | <100 | <100 | <1 | <1 | <1 |
| Toluene | 81,042 | <1 | <1 | <1 | 3300 | 3300 | 1400 | <1 | <1 | <1 |
| Total Xylenes | 2,095 | <2 | <2 | <2 | <100 | <200 | <200 | <2 | <2 | <2 |
| Methylene Chloride | 200 | <5 | <5 | <5 | 290 | <500* | <500* | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 2,321,429 | <10 | <10 | <10 | 1300 | 1000 | <1,000* | <10 | <10 | <10 |

Notes:

Groundwater (GW) to Indoor air (IA) Screening Levels (Cgw) = Residential RSL x CF x 1/HLC x 1/AF.

RSL = Regional Screening Level (residential indoor air at 1 x 10-6 risk or noncancer hazard = 1).

CF = conversion factor (0.001 $m^3/L$).

HLC = Henry's Law Constant (unitless and constituent-specific).

AF = attenuation factor (0.001).

ug/L = micrograms per liter.

$m^3/L$ = cubic meters per liter.

"<" indicates that the concentration of the analyte is less than the value shown.

Shaded cells exceed the screening value for the 1x10-6 risk level.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-02<br>May-09<br>7.89 | MW-02<br>Dec-09<br>7.89 | MW-02<br>May-10<br>7.89 | MW-02<br>Nov-10<br>7.89 | MW-03<br>May-09<br>9.19 | MW-03<br>Dec-09<br>9.19 | MW-03<br>May-10<br>9.19 | MW-03<br>Nov-10<br>9.19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-04<br>May-09<br>12.04 | MW-04<br>Dec-09<br>12.04 | MW-04<br>May-10<br>12.04 | MW-04<br>Dec-10<br>12.04 | MW-05<br>May-09<br>11.79 | MW-05<br>Dec-09<br>11.79 | MW-05<br>May-10<br>11.79 | MW-05<br>Dec-10<br>11.79 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | 27 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

ARCADIS

Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-06<br>May-09<br>10.72 | MW-06<br>Dec-09<br>10.72 | MW-06<br>May-10<br>10.72 | MW-06<br>Dec-10<br>10.72 | MW-07<br>May-09<br>15.95 | MW-07<br>Dec-09<br>15.95 | MW-07<br>May-10<br>15.95 | MW-07<br>Dec-10<br>15.95 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

ARCADIS

Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-08<br>May-09<br>16.10 | MW-08<br>Dec-09<br>16.10 | MW-08<br>May-10<br>16.10 | MW-08<br>Dec-10<br>16.10 | MW-09<br>May-09<br>13.81 | MW-09<br>Dec-09<br>13.81 | MW-09<br>May-10<br>13.81 | MW-09<br>Dec-10<br>13.81 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <620 | <620 | <250 | <1,200 | <25 | 210 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | **540** | <1000 | **2,900** | **6,000** | 1.1 | 1.6 | <1 | 3 |
| Chlorobenzene | 409 | 409 | 409 | 110 | 180 | 180 | 150 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | **2,300** | **2,700** | **8,000** | **1,000** | <1 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | **1,300** | **610** | **1,400** | **300** | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <25 | <25 | 63 | <50* | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <25 | <25 | <10* | <50* | <1 | <1 | <1 | 1.3 |
| Ethylbenzene | 303 | 30 | 3.0 | <25 | 68 | 22 | 74 | <1 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <25 | 43 | 10 | <50 | <1 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <25 | 95 | <20 | <100 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <125 | 380 | 230 | 560 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <250 | <250 | <100 | <500 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

ARCADIS

Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-10<br>May-09<br>12.63 | MW-10<br>Dec-09<br>12.63 | MW-10<br>May-10<br>12.63 | MW-10<br>Dec-10<br>12.63 | MW-11<br>May-09<br>9.33 | MW-11<br>Dec-09<br>9.33 | MW-11<br>May-10<br>9.33 | MW-11<br>Dec-10<br>9.33 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | 42 | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-12<br>May-09<br>9.99 | MW-12<br>Dec-09<br>9.99 | MW-12<br>May-10<br>9.99 | MW-12<br>Dec-10<br>9.99 | MW-13<br>May-09<br>10.86 | MW-13<br>Dec-09<br>10.86 | MW-13<br>May-10<br>10.86 | MW-13<br>Dec-10<br>10.86 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | 28 | <25 | <25 | <25 | <620 | <620 | <500 | <250 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | <1 | **1,200** | **790** | **2,600** | **530** |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | <25 | 29 | 110 | 25 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | **3,500** | **2,000** | **4,000** | **970** |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | **340** | **310** | **1,900** | **230** |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <25 | <25 | <20* | <10* |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <25 | <25 | <20* | <10* |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <25 | <25 | <20 | <10 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | <25 | <25 | <20 | <10 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <25 | <50 | <40 | <20 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <125 | <120 | <100* | <50* |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <250 | <250 | <200* | <100 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-14<br>May-09<br>14.94 | MW-14<br>Dec-09<br>14.94 | MW-14<br>May-10<br>14.94 | MW-14<br>Dec-10<br>14.94 | MW-15<br>May-09<br>17.41 | MW-15<br>Dec-09<br>17.41 | MW-15<br>May-10<br>17.41 | MW-15<br>Dec-10<br>17.41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | 260 | <25 | <25 | <25 | 1,300 | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <2 | <1 | <1 | <1 | <5 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <4 | <2 | <2 | <2 | <10 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <10 | <5 | <5 | <5 | <25 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <20 | <10 | <10 | <10 | <50 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-16<br>May-09<br>17.99 | MW-16<br>Dec-09<br>17.99 | MW-16<br>May-10<br>17.99 | MW-16<br>Dec-10<br>17.99 | MW-17<br>May-09<br>19.21 | MW-17<br>Dec-09<br>19.21 | MW-17<br>May-10<br>19.21 | MW-17<br>Dec-10<br>19.21 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | <5,000 | <12,000 | <2,500* | <12,000 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | 1.1 | <1 | **8,100** | **4,500** | **7,500** | <500 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | <1 | **640** | **1,200** | **740** | **760** |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | **39,000** | **54,000** | **40,000** | **32,000** |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | 1.3 | <1 | **2,900** | **7,100** | **8,400** | **5,900** |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <200 | <500 | <100* | <500 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <1 | <200 | <500 | <100* | <500 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | <200 | <500 | 230 | <500 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | 3.5 | <1 | <200 | <500 | 520 | <500 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <400 | <1,000 | **830** | <1,000 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <1,000 | <2,500 | 660 | <2,500 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <2,000 | <5,000 | <1,000* | <5,000 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-18<br>May-09<br>7.11 | MW-18<br>Dec-09<br>7.11 | MW-18<br>May-10<br>7.11 | MW-18<br>Dec-10<br>7.11 | MW-19<br>May-09<br>12.17 | MW-19<br>Dec-09<br>12.17 | MW-19<br>May-10<br>12.17 | MW-19<br>Dec-10<br>12.17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | 1.1 | <1 | 65 | 64 | 52 | 61 |
| Chlorobenzene | 409 | 409 | 409 | 24 | 21 | 20 | 18 | 14 | 12 | 10 | 9.1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <1 | 11 | 4.5 | 3.2 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | <1 | 4.7 | 2.9 | 3.6 | 2.7 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | 1 | <1 | 1.3 | <1 | 1.4 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <1 | 2 | 2.4 | 1.9 | 2.2 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | <1 | 2.7 | 2.4 | 3 | 2.5 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <2 | <2 | 2.2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-20<br>Sep-09<br>7.71 | MW-20<br>May-10<br>7.71 | MW-20<br>Dec-10<br>7.71 | MW-21<br>Sep-09<br>4.05 | MW-21<br>May-10<br>4.05 | MW-21<br>Dec-10<br>4.05 | MW-22<br>Sep-09<br>7.37 | MW-22<br>May-10<br>7.37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | <25 | <25 | <1,200* | <1,200* | <1,200 | 86 | <25 |
| Benzene | 137 | 14 | 1.4 | <1 | <1 | <1 | **4,400** | **3,500** | **4,400** | 9.8 | 6.6 |
| Chlorobenzene | 409 | 409 | 409 | <1 | <1 | <1 | 170 | 150 | 180 | 7.7 | 4.9 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <1 | <1 | <50 | **280** | <50 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | <1 | <1 | **6,800** | **7,800** | **7,300** | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <1 | <1 | <50* | <50* | 84 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <1 | <1 | <50* | <50* | <50 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <1 | <1 | <50 | <50 | <50 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | <1 | <1 | 4,800 | 4,500 | 4,500 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <2 | <2 | <100 | <100 | <100 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | <5 | <5 | <250* | <250* | <250* | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | <10 | <10 | 640 | <500* | 510 | <10 | <10 |

Notes:
"<" indicates that the concentration of the analyte is less than the value shown.
Shaded cells exceed the screening value for the 1x10-6 risk level.
Bolded cells exceed the screening value for the 1x10-4 risk level.
DTW = Depth to Water.

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Table 9. Results of Initial Groundwater Screening, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Location<br>Date<br>DTW Nov 2010 | GW to IA Screen 1x10-4 | GW to IA Screen 1x10-5 | GW to IA Screen 1x10-6 | MW-22<br>Dec-10<br>7.37 | MW-23<br>Sep-09<br>4.85 | MW-23<br>May-10<br>4.85 | MW-23<br>Dec-10<br>4.85 | MW-24<br>Sep-09<br>8.64 | MW-24<br>May-10<br>8.64 | MW-24<br>Dec-10<br>8.64 |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22,857,143 | 22,857,143 | 22,857,143 | <25 | 1,600* | <2,500* | <2,500* | <25 | <25 | <25 |
| Benzene | 137 | 14 | 1.4 | 6.3 | **9,200** | **10,000** | **7,600** | <1 | <1 | <1 |
| Chlorobenzene | 409 | 409 | 409 | 2.3 | 190 | 180 | <100 | <1 | <1 | <1 |
| Carbon Tetrachloride | 36 | 3.6 | 0.36 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| Chloroform | 73 | 7.3 | 0.73 | <1 | **1,400** | **2,000** | **2,900** | <1 | <1 | <1 |
| 1,2-Dichloroethane | 195 | 19 | 1.9 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| 1,1-Dichloroethene | 913 | 913 | 913 | <1 | <50* | <100* | <100* | <1 | <1 | <1 |
| Ethylbenzene | 303 | 30 | 3.0 | <1 | <50 | <100 | <100 | <1 | <1 | <1 |
| Toluene | 19,155 | 19,155 | 19,155 | <1 | 3,300 | 3,300 | 1,400 | <1 | <1 | <1 |
| Total Xylenes | 476 | 476 | 476 | <2 | <100 | <200 | <200 | <2 | <2 | <2 |
| Methylene Chloride | 4,000 | 400 | 40 | <5 | 290 | <500* | <500* | <5 | <5 | <5 |
| Methyl Isobutyl Ketone | 553,571 | 553,571 | 553,571 | <10 | 1,300 | 1,000 | <1,000* | <10 | <10 | <10 |

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Table 10. Proposed Soil Gas Sample Location Rationale, Revised Phase I Sampling and Analysis Work Plan, Hercules Incorporated, Hattiesburg, Forrest County, Mississippi.

| Sample Location | Area | Rationale |
|---|---|---|
| AO-SG-01 | Southeast Corner of Hercules near Providence Street. | Establish offsite soil gas conditions on eastern boundary of Hercules property near Hercules and 8th Street. |
| AO-SG-02 | Southeast Corner of Hercules near Providence Street. | Establish offsite soil gas conditions on eastern boundary of Hercules property near Hercules and 8th Street. |
| AO-SG-03 | Southeast Corner of Hercules near Providence Street. | Establish offsite soil gas conditions on eastern boundary of Hercules property near Hercules and 8th Street. |