**Residential Well Sampling**
**Olin Chemical Superfund Site, Wilmington, MA**
**Volatile Organic Compounds by Drinking Water Method 524.2**
**Proposed List of Analytes**

| Analyte | CAS No. | Laboratory Reporting Limit (µg/L) | Laboratory Method Detection Limit (µg/L) |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | 71-55-6 | 0.5 | 0.221 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.5 | 0.2 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | 0.2 |
| 1,1-Dichloroethane | 75-34-3 | 0.5 | 0.208 |
| 1,1-Dichloroethene | 75-35-4 | 0.5 | 0.244 |
| 1,1-Dichloropropene | 563-58-6 | 0.5 | 0.2 |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.5 | 0.2 |
| 1,2,3-Trichloropropane | 96-18-4 | 0.5 | 0.248 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.5 | 0.2 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.5 | 0.232 |
| 1,2-Dibromo-3-Chloropropane | 96-12-8 | 0.5 | 0.21 |
| 1,2-Dichlorobenzene | 95-50-1 | 0.5 | 0.2 |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | 0.2 |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | 0.2 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.5 | 0.225 |
| 1,3-Dichlorobenzene | 541-73-1 | 0.5 | 0.213 |
| 1,3-Dichloropropane | 142-28-9 | 0.5 | 0.2 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.5 | 0.2 |
| 2,2-Dichloropropane | 594-20-7 | 0.5 | 0.306 |
| 2,4,4-Trimethyl-1-pentene | 107-39-1 | 1.0 | 0.33 |
| 2,4,4-Trimethyl-2-Pentene | 107-40-4 | 1.0 | 0.2 |
| 2-Chlorotoluene | 95-49-8 | 0.5 | 0.204 |
| 4-Chlorotoluene | 106-43-4 | 0.5 | 0.2 |
| 4-Isopropyltoluene | 99-87-6 | 0.5 | 0.286 |
| Benzene | 71-43-2 | 0.5 | 0.2 |
| Bromobenzene | 108-86-1 | 0.5 | 0.2 |
| Bromoform | 75-25-2 | 0.5 | 0.2 |
| Bromomethane | 74-83-9 | 0.5 | 0.2 |
| Carbon tetrachloride | 56-23-5 | 0.5 | 0.2 |
| Chlorobenzene | 108-90-7 | 0.5 | 0.2 |
| Chlorobromomethane | 74-97-5 | 0.5 | 0.2 |
| Chlorodibromomethane | 124-48-1 | 0.5 | 0.2 |
| Chloroethane | 75-00-3 | 0.5 | 0.2 |
| Chloroform | 67-66-3 | 0.5 | 0.2 |
| Chloromethane | 74-87-3 | 0.5 | 0.242 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.5 | 0.297 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.5 | 0.2 |
| Dibromomethane | 74-95-3 | 0.5 | 0.2 |
| Dichlorobromomethane | 75-27-4 | 0.5 | 0.2 |
| Dichlorodifluoromethane | 75-71-8 | 0.5 | 0.304 |
| Ethylbenzene | 100-41-4 | 0.5 | 0.2 |
| Ethylene Dibromide | 106-93-4 | 0.5 | 0.2 |
| Hexachlorobutadiene | 87-68-3 | 0.5 | 0.2 |
| Isopropylbenzene | 98-82-8 | 0.5 | 0.2 |
| Methyl tert-butyl ether | 1634-04-4 | 0.5 | 0.2 |
| Methylene Chloride | 75-09-2 | 0.5 | 0.2 |
| m-Xylene & p-Xylene | 136777-61-2 | 1.0 | 0.396 |
| Naphthalene | 91-20-3 | 0.5 | 0.219 |
| n-Butylbenzene | 104-51-8 | 0.5 | 0.229 |
| N-Propylbenzene | 103-65-1 | 0.5 | 0.212 |
| o-Xylene | 95-47-6 | 0.5 | 0.205 |
| sec-Butylbenzene | 135-98-8 | 0.5 | 0.222 |
| Styrene | 100-42-5 | 0.5 | 0.2 |
| tert-Butylbenzene | 98-06-6 | 0.5 | 0.246 |
| Tetrachloroethene | 127-18-4 | 0.5 | 0.2 |
| Toluene | 108-88-3 | 0.5 | 0.2 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.5 | 0.21 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.5 | 0.2 |
| Trichloroethene | 79-01-6 | 0.5 | 0.214 |
| Trichlorofluoromethane | 75-69-4 | 0.5 | 0.242 |
| Vinyl chloride | 75-01-4 | 0.5 | 0.2 |

Notes:
µg/L = micrograms per liter or parts per billion

SDMS DocID 485045



Prepared by: TLC 8/26/08
Checked by: PHT 8/27/08

**Residential Well Sampling**
**Olin Chemical Superfund Site, Wilmington, MA**
**NDMA by Method 1625**

| Analyte | CAS No. | Laboratory Reporting Limit (µg/L) | Laboratory Method Detection Limit (µg/L) |
|---|---|---|---|
| N-Nitrosodimethylamine (NDMA) | 62-75-9 | 0.002 | 0.000446 |

Notes:
µg/L = micrograms per liter or parts per billion

**Residential Well Sampling**
**Olin Chemical Superfund Site, Wilmington, MA**
**Semivolatile Organic Compounds by Drinking Water Method 525**
**Proposed List of Analytes**

| Analyte | CAS No. | Laboratory Reporting Limit (µg/L) | Laboratory Method Detection Limit (µg/L) |
|---|---|---|---|
| Alachlor | 15972-60-8 | 0.2 | 0.06 |
| Atrazine | 1912-24-9 | 0.2 | 0.043 |
| Benzo[a]pyrene | 50-32-8 | 0.2 | 0.025 |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | 2 | 0.5 |
| Di(2-ethylhexyl)adipate | 103-23-1 | 1.5 | 0.5 |
| Heptachlor | 76-44-8 | 0.2 | 0.038 |
| Heptachlor epoxide | 1024-57-3 | 0.2 | 0.091 |
| Endrin | 72-20-8 | 0.5 | 0.12 |
| Hexachlorobenzene | 118-74-1 | 0.2 | 0.032 |
| Hexachlorocyclopentadiene | 77-47-4 | 2 | 0.056 |
| gamma-BHC (Lindane) | 58-89-9 | 0.2 | 0.069 |
| Methoxychlor | 72-43-5 | 0.5 | 0.1 |
| Simazine | 122-34-9 | 0.5 | 0.076 |

Notes:
µg/L = micrograms per liter or parts per billion

## Residential Well Sampling
## Olin Chemical Superfund Site, Wilmington, MA
## Metlas by ICP and ICP-MS - Drinking Water Methods 200.7 and 200.8

| Analyte | CAS No. | Laboratory Reporting Limit (µg/L) by 200.7 | Laboratory Method Detection Limit (µg/L) by 200.7 | Laboratory Reporting Limit (µg/L) by 200.8 | Laboratory Method Detection Limit (µg/L) by 200.8 |
|---|---|---|---|---|---|
| Calcium | 7440-70-2 | 400 | 47 | NR | NR |
| Chromium | 7440-47-3 | 5 | 0.38 | 1.0 | 0.284 |
| Sodium | 7440-23-5 | 2000 | 120 | NR | NR |

Notes:
Method 200.7 = metals by Inductively coupled plasma (ICP)
Method 200.8 = metals by Inductively coupled plasma mass spectroscopy (ICP-MS)
NR = Not Reported by lab
µg/L = micrograms per liter or parts per billion

# Residential Well Sampling
# Olin Chemical Superfund Site, Wilmington, MA
# Inorganic Analytes - Drinking Water Methods

| Analyte | CAS No. | Analytical_Method | Laboratory Reporting Limit (µg/L) | Laboratory Method Detection Limit (µg/L) |
|---|---|---|---|---|
| Nitrate as N | 14797-55-8 | 300.0 | 50 | 31 |
| Nitrite as N | 14797-65-0 | 300.0 | 10 | 3.7 |
| Sulfate | 14808-79-8 | 300.0 | 2000 | 260 |
| Chloride | 16887-00-6 | 300.0 | 1000 | 440 |
| Ammonia | 7664-41-7 | LACHAT 10-107-06-1-A | 100 | 84 |

Notes:
µg/L = micrograms per liter or parts per billion