

Regional Removal Management Level (RML) Chemical-specific Parameters Supporting Table May 2016

| Contaminant                         | Analyte    | CAS No. | Molecular Weight |          | Volatility Parameters     |                                |                            |         | Melting Point |         | Density  |             | Diffusivity in Air and Water |                                       |   |   | Partition Coefficients |                     |                     |                                | Water Solubility        |          | Tapwater Dermal Parameters |                            |                      |                                       |         |     |  |  |  |  |  |  |
|-------------------------------------|------------|---------|------------------|----------|---------------------------|--------------------------------|----------------------------|---------|---------------|---------|----------|-------------|------------------------------|---------------------------------------|---|---|------------------------|---------------------|---------------------|--------------------------------|-------------------------|----------|----------------------------|----------------------------|----------------------|---------------------------------------|---------|-----|--|--|--|--|--|--|
|                                     |            |         | MMW              | MMW Ref  | H <sup>+</sup> (unitless) | HLC (atm-m <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP      | VP Ref        | MP      | MP Ref   | Density Ref | Density Ref                  | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | D <sub>air</sub> and D <sub>water</sub> Ref | K <sub>ow</sub> (L/kg) | K <sub>ow</sub> Ref | K <sub>oc</sub> Ref | log K <sub>ow</sub> (unitless) | log K <sub>ow</sub> Ref | S (mg/L) | S Ref                      | Q <sub>10</sub> (unitless) | T <sub>10</sub> (hr) | R <sub>10</sub> (cm <sup>2</sup> /hr) | K Ref   |     |  |  |  |  |  |  |
| Acetophenone                        | 30560-19-1 |         | 128.02           | PHYSPROP | 2.0E-11                   | 5.0E-13                        | EPI                        | 1.7E-05 | PHYSPROP      | 8.8E+01 | PHYSPROP | 1.4E+00     | CRCB9                        | 3.7E-01                               | WATER                                   | 1.0E+01                                     | EPI                    | 8.5E-01             | PHYSPROP            | 2.7E+00                        | 1.1E+00                 | 1.1E+00  | 2.7E+00                    | 4.0E-05                    | EPI                  |                                       |         |     |  |  |  |  |  |  |
| Acetaldehyde                        | 75-07-0    |         | 4.4E+01          | PHYSPROP | 2.7E-03                   | 6.7E-05                        | PHYSPROP                   | 9.0E+02 | PHYSPROP      | 1.2E+02 | PHYSPROP | 7.8E-01     | CRCB9                        | 1.3E-01                               | WATER                                   | 1.0E+00                                     | EPI                    | 3.4E-01             | PHYSPROP            | 1.0E+00                        | 1.0E+00                 | 1.0E+00  | 1.0E+00                    | 1.3E-01                    | 1.9E-01              | 4.5E-01                               | 5.3E-04 | EPI |  |  |  |  |  |  |
| Acetochlor                          | 34256-82-1 |         | 2.7E+02          | PHYSPROP | 9.1E-07                   | 2.2E-08                        | PHYSPROP                   | 2.8E-05 | PHYSPROP      | 1.1E+01 | PubChem  | 1.1E+00     | PubChem                      | 2.0E+02                               | WATER                                   | 3.0E+00                                     | PHYSPROP               | 3.0E+02             | EPI                 | 3.0E+00                        | PHYSPROP                | 2.1E+02  | 3.4E+00                    | 3.0E+00                    | 8.2E+00              | 2.8E+00                               | 5.0E-03 | EPI |  |  |  |  |  |  |
| Acetone                             | 67-64-1    |         | 5.8E+01          | PHYSPROP | 1.4E-03                   | 3.5E-05                        | PHYSPROP                   | 2.3E+02 | PHYSPROP      | 9.5E+01 | PHYSPROP | 7.8E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 2.4E+00                                     | EPI                    | 2.4E-01             | PHYSPROP            | 1.0E+00                        | 1.0E+00                 | 1.0E+00  | 1.0E+00                    | 1.5E-03                    | 2.2E-01              | 5.3E-01                               | 5.1E-04 | EPI |  |  |  |  |  |  |
| Acetone Cyanohydrin                 | 75-86-5    |         | 8.5E+01          | PHYSPROP | 8.1E-08                   | 2.0E-09                        | PHYSPROP                   | 3.4E-01 | PHYSPROP      | 1.4E+01 | PHYSPROP | 9.3E-01     | CRCB9                        | 8.6E-02                               | WATER                                   | 1.0E+00                                     | EPI                    | 3.0E-02             | PHYSPROP            | 1.0E+00                        | 1.0E+00                 | 1.0E+00  | 1.0E+00                    | 1.8E-03                    | 3.2E-01              | 7.6E-01                               | 5.0E-04 | EPI |  |  |  |  |  |  |
| Acetone                             | 75-86-5    |         | 5.8E+01          | PHYSPROP | 1.4E-03                   | 3.5E-05                        | PHYSPROP                   | 2.3E+02 | PHYSPROP      | 9.5E+01 | PHYSPROP | 7.8E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 2.4E+00                                     | EPI                    | 2.4E-01             | PHYSPROP            | 1.0E+00                        | 1.0E+00                 | 1.0E+00  | 1.0E+00                    | 1.5E-03                    | 2.2E-01              | 5.3E-01                               | 5.1E-04 | EPI |  |  |  |  |  |  |
| Acetophenone                        | 98-86-2    |         | 1.2E+02          | PHYSPROP | 4.3E-04                   | 1.0E-05                        | PHYSPROP                   | 4.0E-01 | PHYSPROP      | 2.0E+01 | PHYSPROP | 1.0E+00     | CRCB9                        | 6.5E-02                               | WATER                                   | 5.2E+01                                     | EPI                    | 1.6E+00             | PHYSPROP            | 6.1E+03                        | PHYSPROP                | 1.6E-02  | 5.0E-01                    | 1.2E+00                    | 3.7E-03              | EPI                                   |         |     |  |  |  |  |  |  |
| Acetaminofluorene, 2-<br>acrylamide | 53-96-3    |         | 2.2E+02          | PHYSPROP | 7.8E-09                   | 1.9E-10                        | PHYSPROP                   | 1.9E-08 | PHYSPROP      | 1.0E+00 | PHYSPROP | 8.4E-01     | CRCB9                        | 5.2E-02                               | WATER                                   | 2.2E+03                                     | EPI                    | 3.1E+00             | PHYSPROP            | 5.5E+00                        | PHYSPROP                | 7.2E-02  | 1.9E+00                    | 1.5E+00                    | 1.2E+02              | RAGSE                                 |         |     |  |  |  |  |  |  |
| Acetaminofluorene, 2-<br>acrylamide | 107-02-8   |         | 5.6E+01          | PHYSPROP | 5.0E-03                   | 1.2E-04                        | PHYSPROP                   | 2.7E+02 | PHYSPROP      | 8.8E+01 | PHYSPROP | 8.4E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 1.0E+00                                     | EPI                    | 1.0E-02             | PHYSPROP            | 2.1E+05                        | PHYSPROP                | 2.2E-02  | 2.2E-01                    | 5.2E-01                    | 7.5E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Acrylamide                          | 79-06-1    |         | 7.1E+01          | PHYSPROP | 7.0E-08                   | 1.7E-09                        | EPI                        | 7.0E-03 | PHYSPROP      | 8.5E+01 | PHYSPROP | 1.2E+00     | LANGE                        | 1.1E-01                               | WATER                                   | 5.7E+00                                     | EPI                    | 6.7E-01             | PHYSPROP            | 3.9E+05                        | PHYSPROP                | 7.3E-04  | 2.6E-01                    | 6.3E-01                    | 2.2E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Acrylic Acid                        | 79-10-7    |         | 7.2E+01          | PHYSPROP | 1.5E-05                   | 3.7E-07                        | EPI                        | 4.0E+00 | PHYSPROP      | 1.3E+01 | PHYSPROP | 1.1E+00     | CRCB9                        | 1.0E-01                               | WATER                                   | 1.4E+00                                     | EPI                    | 3.5E-01             | PHYSPROP            | 1.0E+06                        | PHYSPROP                | 4.0E-03  | 1.2E+00                    | 2.9E+00                    | 7.6E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Acrylonitrile                       | 107-13-1   |         | 5.3E+01          | PHYSPROP | 5.6E-03                   | 1.4E-04                        | PHYSPROP                   | 1.1E+02 | PHYSPROP      | 8.4E-01 | PHYSPROP | 8.0E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 8.5E+00                                     | EPI                    | 2.5E-01             | PHYSPROP            | 7.5E+04                        | PHYSPROP                | 3.3E-03  | 2.1E-01                    | 5.0E-01                    | 1.2E-03              | EPI                                   |         |     |  |  |  |  |  |  |
| Adiponitrile                        | 111-69-3   |         | 1.1E+02          | PHYSPROP | 4.9E-08                   | 1.2E-09                        | EPI                        | 6.8E-04 | PHYSPROP      | 1.7E+02 | PHYSPROP | 7.1E-01     | CRCB9                        | 7.1E-02                               | WATER                                   | 2.0E+01                                     | EPI                    | 3.2E-01             | PHYSPROP            | 8.0E+04                        | PHYSPROP                | 9.5E-04  | 4.0E-01                    | 1.0E+00                    | 2.4E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Alcohol                             | 15972-60-8 |         | 2.7E+02          | PHYSPROP | 3.4E-07                   | 8.3E-09                        | PHYSPROP                   | 2.2E-05 | PHYSPROP      | 4.0E+01 | PHYSPROP | 1.1E+00     | CRCB9                        | 2.3E-02                               | WATER                                   | 3.1E+02                                     | EPI                    | 3.5E+00             | PHYSPROP            | 2.4E+02                        | PHYSPROP                | 6.6E-02  | 3.4E+00                    | 8.2E+00                    | 1.1E-02              | EPI                                   |         |     |  |  |  |  |  |  |
| Aldicarb                            | 116-96-3   |         | 1.9E+02          | PHYSPROP | 5.9E-08                   | 1.4E-09                        | EPI                        | 3.5E-05 | PHYSPROP      | 9.9E+01 | PHYSPROP | 1.1E+00     | CRCB9                        | 3.2E-02                               | WATER                                   | 2.5E+01                                     | EPI                    | 1.1E+00             | PHYSPROP            | 6.0E+03                        | PHYSPROP                | 4.0E-03  | 1.2E+00                    | 2.9E+00                    | 7.6E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Aldicarb Sulfone                    | 1646-88-4  |         | 2.2E+02          | PHYSPROP | 1.4E-07                   | 3.4E-09                        | EPI                        | 3.0E-05 | PHYSPROP      | 1.4E+02 | PHYSPROP | 1.0E+00     | CRCB9                        | 5.2E-02                               | WATER                                   | 6.1E+00                                     | EPI                    | 5.7E-01             | PHYSPROP            | 1.0E+04                        | PHYSPROP                | 2.1E-04  | 1.8E+00                    | 4.4E+00                    | 3.7E-05              | EPI                                   |         |     |  |  |  |  |  |  |
| Aldicarb sulfoxide                  | 1646-87-3  |         | 2.1E+02          | PHYSPROP | 4.0E-08                   | 9.7E-10                        | EPI                        | 1.0E-04 | PHYSPROP      | 7.8E+01 | EPI      | 1.0E+00     | PHYSPROP                     | 5.4E-02                               | WATER                                   | 1.0E+01                                     | EPI                    | 7.8E-01             | PHYSPROP            | 2.8E+04                        | PHYSPROP                | 1.8E-04  | 1.5E+00                    | 3.6E+00                    | 3.3E-05              | EPI                                   |         |     |  |  |  |  |  |  |
| Aldrin                              | 309-00-2   |         | 3.8E+02          | PHYSPROP | 1.8E-03                   | 4.4E-05                        | PHYSPROP                   | 1.2E-04 | PHYSPROP      | 1.0E+02 | PHYSPROP | 1.6E+00     | PubChem                      | 2.3E-02                               | WATER                                   | 8.2E+04                                     | EPI                    | 6.5E+00             | PHYSPROP            | 1.7E-02                        | PHYSPROP                | 2.2E+00  | 1.2E+01                    | 4.8E+01                    | 2.9E-01              | EPI                                   |         |     |  |  |  |  |  |  |
| Allyl Alcohol                       | 107-18-6   |         | 5.8E+01          | PHYSPROP | 2.0E-04                   | 5.0E-06                        | EPI                        | 2.6E+01 | PHYSPROP      | 1.3E+02 | PHYSPROP | 8.5E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 1.9E+00                                     | EPI                    | 1.7E-01             | PHYSPROP            | 3.0E+06                        | PHYSPROP                | 2.8E-02  | 2.2E-01                    | 5.3E-01                    | 9.6E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Allyl Chloride                      | 107-05-1   |         | 7.7E+01          | PHYSPROP | 4.5E-01                   | 1.1E-02                        | EPI                        | 3.7E+02 | PHYSPROP      | 1.3E+02 | PHYSPROP | 9.4E-01     | CRCB9                        | 9.4E-02                               | WATER                                   | 1.9E+00                                     | EPI                    | 1.9E+00             | PHYSPROP            | 1.0E+03                        | PHYSPROP                | 3.8E-02  | 2.8E-01                    | 6.8E-01                    | 1.1E-02              | EPI                                   |         |     |  |  |  |  |  |  |
| Aluminum                            | 7429-65-5  |         | 2.7E+01          | CRCB9    | 8.4E-03                   | 3.3E-05                        | EPI                        | 0.0E+00 | NIOSH         | 2.7E+02 | CRCB9    | 2.4E+00     | CRCB9                        | 1.5E+03                               | BAES                                    |   |                        |                     |                     |                                |                         |          |                            |                            |                      |                                       |         |     |  |  |  |  |  |  |
| Aluminum Phosphide                  | 20859-73-8 |         | 5.8E+01          | PHYSPROP | 2.0E-04                   | 5.0E-06                        | EPI                        | 2.6E+01 | PHYSPROP      | 1.3E+02 | PHYSPROP | 8.5E-01     | CRCB9                        | 1.1E-01                               | WATER                                   | 1.9E+00                                     | EPI                    | 1.7E-01             | PHYSPROP            | 3.0E+06                        | PHYSPROP                | 2.8E-02  | 2.2E-01                    | 5.3E-01                    | 9.6E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Ametryn                             | 834-12-8   |         | 2.3E+02          | PHYSPROP | 9.9E-08                   | 2.4E-09                        | EPI                        | 2.7E-06 | PHYSPROP      | 8.8E+01 | PHYSPROP | 1.4E+00     | CRCB9                        | 5.1E-02                               | WATER                                   | 6.0E+00                                     | EPI                    | 4.3E+02             | EPI                 | 3.0E+00                        | PHYSPROP                | 2.1E+02  | PHYSPROP                   | 4.6E-02                    | 2.0E+00              | 4.7E+00                               | 7.9E-03 | EPI |  |  |  |  |  |  |
| Ammobiphényl, 4-                    | 92-67-1    |         | 1.7E+02          | PHYSPROP | 6.0E-06                   | 1.5E-07                        | EPI                        | 1.2E-04 | PHYSPROP      | 5.4E+01 | PHYSPROP | 2.4E+00     | CRCB9                        | 6.2E-02                               | WATER                                   | 7.3E-02                                     | EPI                    | 2.9E+00             | PHYSPROP            | 2.2E+02                        | PHYSPROP                | 7.0E-02  | 9.3E-01                    | 2.2E+00                    | 1.4E-02              | EPI                                   |         |     |  |  |  |  |  |  |
| Aminophenol, m-                     | 591-27-5   |         | 1.1E+02          | PHYSPROP | 8.1E-09                   | 2.0E-10                        | PHYSPROP                   | 9.6E-03 | PHYSPROP      | 1.2E+02 | PHYSPROP | 1.1E+00     | CRCB9                        | 8.3E-02                               | WATER                                   | 9.0E+01                                     | EPI                    | 2.1E-01             | PHYSPROP            | 2.7E+04                        | PHYSPROP                | 2.1E-03  | 4.3E-01                    | 1.0E+00                    | 5.3E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Aminophenol, p-                     | 123-39-3   |         | 1.1E+02          | PHYSPROP | 8.1E-09                   | 2.0E-10                        | PHYSPROP                   | 9.6E-03 | PHYSPROP      | 1.2E+02 | PHYSPROP | 1.1E+00     | CRCB9                        | 8.3E-02                               | WATER                                   | 9.0E+01                                     | EPI                    | 2.1E-01             | PHYSPROP            | 1.6E-04                        | PHYSPROP                | 1.0E-04  | 4.0E-01                    | 1.1E+00                    | 4.1E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Antraz                              | 33089-61-1 |         | 2.9E+02          | PHYSPROP | 4.0E-04                   | 9.9E-06                        | PHYSPROP                   | 2.0E-06 | PHYSPROP      | 8.6E+01 | PHYSPROP | 1.1E+00     | CRCB9                        | 2.2E-02                               | WATER                                   | 2.6E+05                                     | EPI                    | 5.5E+00             | PHYSPROP            | 1.0E+00                        | PHYSPROP                | 1.1E+00  | 4.6E-01                    | 1.8E+01                    | 1.6E-01              | EPI                                   |         |     |  |  |  |  |  |  |
| Ammonia                             | 7664-41-7  |         | 1.7E+01          | PHYSPROP | 6.6E-04                   | 1.6E-05                        | PHYSPROP                   | 7.5E-03 | PHYSPROP      | 1.0E+00 | PHYSPROP | 1.1E+00     | CRCB9                        | 2.3E-01                               | WATER                                   | 2.3E-01                                     | OTHER                  | 4.8E+05             | PHYSPROP            | 1.6E-03                        | 3.1E-01                 | 3.1E-01  | 1.0E+00                    | 1.0E-03                    | RAGSE                |                                       |         |     |  |  |  |  |  |  |
| Ammonium Sulfamate                  | 7773-06-0  |         | 1.1E+02          | CRCB9    | 1.1E+02                   | 1.1E+02                        | PHYSPROP                   | 0.0E+00 | NIOSH         | 3.3E+02 | CRCB9    | 1.8E+00     | PubChem                      | 7.9E-02                               | WATER                                   | 9.1E+00                                     | EPI                    | 8.9E-01             | PHYSPROP            | 1.3E+06                        | PERRY                   | 4.1E-03  | 4.6E-01                    | 1.1E+00                    | 1.0E-03              | RAGSE                                 |         |     |  |  |  |  |  |  |
| Amly Alcohol, tert-                 | 123-39-3   |         | 1.1E+02          | PHYSPROP | 8.1E-09                   | 2.0E-10                        | PHYSPROP                   | 9.6E-03 | PHYSPROP      | 1.2E+02 | PHYSPROP | 1.1E+00     | CRCB9                        | 8.3E-02                               | WATER                                   | 9.0E+01                                     | EPI                    | 2.1E-01             | PHYSPROP            | 1.6E-04                        | PHYSPROP                | 1.0E-04  | 4.0E-01                    | 1.1E+00                    | 4.1E-04              | EPI                                   |         |     |  |  |  |  |  |  |
| Aniline                             | 62-53-3    |         | 9.3E+01          | PHYSPROP | 8.3E-05                   | 2.0E-06                        | PHYSPROP                   | 6.7E-01 | PHYSPROP      | 1.0E+00 | PHYSPROP | 1.0E+00     | CRCB9                        | 8.3E-02                               | WATER                                   | 9.0E+01                                     | EPI                    | 9.0E-01             | PHYSPROP            | 3.5E+04                        | PHYSPROP                | 3.6E-04  | PHYSPROP                   | 3.5E-01                    | 8.4E-01              | 1.9E-03                               | EPI     |     |  |  |  |  |  |  |
| Antraquinone, 9,10-                 | 84-65-1    |         | 2.1E+02          | PHYSPROP | 9.6E-07                   | 2.4E-08                        | EPI                        | 1.2E-07 | PHYSPROP      | 2.9E+02 | PHYSPROP | 6.7E+00     | CRCB9                        | 5.4E-02                               | WATER                                   | 5.0E+03                                     | EPI                    | 3.4E+00             | PHYSPROP            | 1.4E+00                        | PHYSPROP                | 1.1E-01  | 1.5E+00                    | 1.7E+00                    | 1.9E-02              | EPI                                   |         |     |  |  |  |  |  |  |
| Antimony (metallic)                 | 7440-36-0  |         | 1.2E+02          | PHYSPROP | 1.8E-03                   | 4.4E-05                        | PHYSPROP                   | 1.2E-04 | PHYSPROP      | 1.0E+02 | PHYSPROP | 1.6E+00     | PubChem                      | 2.3E-02                               | WATER                                   | 8.2E+04                                     | EPI                    | 6.5E+00             | PHYSPROP            | 1.7E-02                        | PHYSPROP                | 2.2E+00  | 1.2E+01                    | 4.8E+01                    | 2.9E-01              | EPI                                   |         |     |  |  |  |  |  |  |
| Antimony Pentoxide                  | 1314-60-9  |         | 3.2E+02          | CRCB9    | 3.1E+02                   | 3.1E+02                        | EPI                        | 0.0E+00 | NIOSH         | 3.1E+02 | CRCB9    | 3.8E+00     | CRCB9                        | 6.6E+00                               | CRCB9                                   | 6.6E+00                                     | CRCB9                  | 3.8E+00             | CRCB9               | 3.0E+03                        | CRCB9                   | 6.9E-03  | 6.8E+00                    | 1.6E+01                    | 1.0E-03              | RAGSE                                 |         |     |  |  |  |  |  |  |
| Antimony Trisulfide                 | 1332-81-6  |         | 5.7E+02          | EPI      | 5.7E+02                   | 5.7E+02                        | EPI                        | 0.0E+00 | NIOSH         | 5.7E+02 | CRCB9    | 6.6E+00     | CRCB9                        | 6.6E+00                               | CRCB9                                   | 6.6E+00                                     | CRCB9                  | 6.6E+00             | CRCB9               | 3.0E+03                        | CRCB9                   | 6.9E-03  | 6.8E+00                    | 1.6E+01                    | 1.0E-03              | RAGSE                                 |         |     |  |  |  |  |  |  |
| Antimony Tr                         |            |         |                  |          |                           |                                |                            |         |               |         |          |             |                              |                                       |   |   |                        |                     |                     |                                |                         |          |                            |                            |                      |                                       |         |     |  |  |  |  |  |  |





Regional Removal Management Level (RML) Chemical-Specific Parameters Supporting Table May 2016

| Contaminant                           | Analyte | CAS No.    | Molecular Weight |          | Volatility Parameters     |                                |                             |          | Melting Point |          | Density  |                              | Diffusivity in Air and Water |                                       |   |  | Partition Coefficients |                      |                        |                      | Water Solubility               |                          | Tapwater Dermal Parameters |          |              |                       |                       |                                      |                     |  |  |  |  |  |
|---------------------------------------|---------|------------|------------------|----------|---------------------------|--------------------------------|-----------------------------|----------|---------------|----------|----------|------------------------------|------------------------------|---------------------------------------|---|--|------------------------|----------------------|------------------------|----------------------|--------------------------------|--------------------------|----------------------------|----------|--------------|-----------------------|-----------------------|--------------------------------------|---------------------|--|--|--|--|--|
|                                       |         |            | MMW              | MMF Ref. | H <sup>+</sup> (unitless) | HLC (atm-m <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref. | VP       | VP Ref.       | MP       | MP Ref.  | Density (g/cm <sup>3</sup> ) | Density Ref.                 | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | D <sub>air</sub> and D <sub>water</sub> Ref. | K <sub>ow</sub> (L/kg) | K <sub>ow</sub> Ref. | K <sub>oc</sub> (L/kg) | K <sub>oc</sub> Ref. | log K <sub>ow</sub> (unitless) | log K <sub>oc</sub> Ref. | S (mg/L)                   | S Ref.   | B (unitless) | T <sub>1/2</sub> (hr) | T <sub>1/2</sub> Ref. | R <sub>p</sub> (hr/cm <sup>2</sup> ) | R <sub>p</sub> Ref. |  |  |  |  |  |
| Dibromochloromethane                  |         | 124-48-1   | 211.02           | PHYSPROP | 3.27                      | 0.22                           | 78.04                       | PHYSPROP | 5.56+00       | PHYSPROP | 2.52+00  | CR89                         | 3.27                         | 0.22                                  | 11.85                                   | WATER  | 1.25+00                | EPI                  | 2.2E+00                | PHYSPROP             | 1.5E+00                        | EPI                      | 2.2E+00                    | PHYSPROP | 1.5E+00      | 1.5E+00               | 2.3E+01               | 2.9E+03                              | EPI                 |  |  |  |  |  |
| Dibromomethane, 1,2-                  |         | 106-93-4   | 196.02           | PHYSPROP | 2.7E+02                   | 6.5E-04                        | PHYSPROP                    | 1.1E+01  | PHYSPROP      | 9.9E+00  | PHYSPROP | 2.2E+00                      | CR89                         | 4.3E+02                               | 1.0E+05                                 | WATER  | 4.0E+01                | EPI                  | 2.0E+00                | PHYSPROP             | 1.5E+00                        | EPI                      | 2.0E+00                    | PHYSPROP | 1.5E+00      | 1.2E+01               | 2.8E+00               | 2.8E+03                              | EPI                 |  |  |  |  |  |
| Dibromomethane (Methylene Bromide)    |         | 74-95-3    | 176.02           | PHYSPROP | 3.4E+02                   | 8.2E-04                        | PHYSPROP                    | 4.4E+01  | PHYSPROP      | 5.3E+01  | PHYSPROP | 2.5E+00                      | CR89                         | 3.5E+02                               | 1.2E+05                                 | WATER  | 2.2E+01                | EPI                  | 1.7E+00                | PHYSPROP             | 1.2E+00                        | EPI                      | 1.7E+00                    | PHYSPROP | 1.1E+00      | 9.2E+00               | 2.4E+00               | 2.2E+03                              | EPI                 |  |  |  |  |  |
| Dibutyltin Compounds                  |         | NA         |                  |          |                           |                                |                             |          |               |          |          |                              |                              |                                       |   |  |                        |                      |                        |                      |                                |                          |                            |          |              |                       |                       |                                      |                     |  |  |  |  |  |
| Dicamba                               |         | 1938-00-9  | 322.02           | PHYSPROP | 8.0E+08                   | 2.2E+09                        | EPI                         | 1.3E+05  | PHYSPROP      | 1.2E+02  | PHYSPROP | 1.6E+00                      | CR89                         | 2.9E+02                               | 7.8E+06                                 | WATER  | 2.9E+01                | EPI                  | 2.2E+00                | PHYSPROP             | 6.3E+03                        | PHYSPROP                 | 1.5E+02                    | EPI      | 1.5E+02      | 1.8E+00               | 4.4E+00               | 2.7E+03                              | EPI                 |  |  |  |  |  |
| Dichloro-2-butene, 1,4                |         | 1764-01-1  | 132.02           | PHYSPROP | 3.5E+01                   | 8.5E+03                        | PHYSPROP                    | 3.0E+00  | EPI           | 3.5E+00  | PHYSPROP | 1.2E+00                      | LANGE                        | 6.7E+02                               | 9.3E+06                                 | WATER  | 1.3E+02                | EPI                  | 2.6E+00                | PHYSPROP             | 5.8E+02                        | PHYSPROP                 | 7.1E+02                    | 5.3E+01  | 1.3E+00      | 1.7E+02               | 1.7E+02               | EPI                                  |                     |  |  |  |  |  |
| Dichloro-2-butene, cis-1,4            |         | 1476-11-5  | 132.02           | PHYSPROP | 2.7E+02                   | 6.6E-04                        | EPI                         | 4.1E+00  | PHYSPROP      | 4.8E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 6.7E+02                               | 9.3E+06                                 | WATER  | 1.3E+02                | EPI                  | 2.6E+00                | PHYSPROP             | 5.8E+02                        | PHYSPROP                 | 7.1E+02                    | 5.3E+01  | 1.3E+00      | 1.7E+02               | 1.7E+02               | EPI                                  |                     |  |  |  |  |  |
| Dichloro-2-butene, trans-1,4          |         | 110-57-6   | 132.02           | PHYSPROP | 2.7E+02                   | 6.6E-04                        | EPI                         | 3.4E+00  | PHYSPROP      | 2.0E+00  | PHYSPROP | 1.2E+00                      | CR89                         | 6.6E+02                               | 9.3E+06                                 | WATER  | 1.3E+02                | EPI                  | 2.6E+00                | PHYSPROP             | 5.8E+02                        | PHYSPROP                 | 7.1E+02                    | 5.3E+01  | 1.3E+00      | 1.7E+02               | 1.7E+02               | EPI                                  |                     |  |  |  |  |  |
| Dichloroacetic Acid                   |         | 79-43-6    | 132.02           | PHYSPROP | 3.4E+07                   | 8.4E+09                        | PHYSPROP                    | 1.8E+01  | PHYSPROP      | 1.4E+01  | PHYSPROP | 1.6E+00                      | CR89                         | 7.2E+02                               | 1.1E+05                                 | WATER  | 2.3E+00                | EPI                  | 9.2E+01                | PHYSPROP             | 1.0E+06                        | PHYSPROP                 | 5.3E+03                    | 5.5E+01  | 1.3E+00      | 1.2E+03               | 1.6E+03               | EPI                                  |                     |  |  |  |  |  |
| Dichlorobenzene, 1,2-                 |         | 95-50-1    | 153.02           | PHYSPROP | 7.8E+02                   | 1.9E+03                        | PHYSPROP                    | 1.4E+00  | PHYSPROP      | 1.7E+01  | PHYSPROP | 1.3E+00                      | CR89                         | 5.6E+02                               | 8.9E+06                                 | WATER  | 3.8E+02                | EPI                  | 3.4E+00                | PHYSPROP             | 1.6E+02                        | PHYSPROP                 | 2.1E+01                    | 7.0E+01  | 1.7E+00      | 4.5E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichlorobenzene, 1,3-                 |         | 106-46-7   | 153.02           | PHYSPROP | 9.9E+02                   | 2.4E+03                        | PHYSPROP                    | 1.7E+00  | PHYSPROP      | 1.7E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.5E+02                               | 8.7E+06                                 | WATER  | 3.8E+02                | EPI                  | 3.4E+00                | PHYSPROP             | 1.6E+02                        | PHYSPROP                 | 2.1E+01                    | 7.0E+01  | 1.7E+00      | 4.5E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichlorobenzidine, 3,3'               |         | 91-94-1    | 252.02           | PHYSPROP | 1.2E+09                   | 2.8E+11                        | PHYSPROP                    | 2.6E+07  | PHYSPROP      | 1.3E+02  | PHYSPROP | 1.5E+00                      | CR89                         | 4.7E+02                               | 5.5E+06                                 | WATER  | 3.2E+03                | EPI                  | 3.5E+00                | PHYSPROP             | 3.1E+00                        | PHYSPROP                 | 7.8E+02                    | 2.8E+00  | 6.6E+00      | 1.3E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichlorobenzophenone, 4,4'            |         | 90-98-2    | 252.02           | PHYSPROP | 4.4E+05                   | 1.1E+06                        | PHYSPROP                    | 6.4E+06  | PHYSPROP      | 1.5E+00  | CR89     | 2.6E+02                      | 6.9E+06                      | WATER                                 | 2.9E+03                                 | EPI  | 4.4E+00                | PHYSPROP             | 3.5E+00                | PHYSPROP             | 8.3E+01                        | PHYSPROP                 | 3.3E+01                    | 2.7E+00  | 6.4E+00      | 5.4E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichlorodifluoromethane               |         | 75-71-8    | 128.02           | PHYSPROP | 1.4E+01                   | 3.4E+01                        | PHYSPROP                    | 4.8E+03  | PHYSPROP      | 1.6E+02  | PHYSPROP | 1.5E+00                      | PERRY                        | 7.6E+02                               | 1.1E+05                                 | WATER  | 4.4E+01                | EPI                  | 2.2E+00                | PHYSPROP             | 2.8E+02                        | PHYSPROP                 | 3.8E+02                    | 5.0E+01  | 1.2E+00      | 9.0E+03               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethane, 1,1-                  |         | 75-34-3    | 99.01            | PHYSPROP | 2.3E+01                   | 5.6E+03                        | PHYSPROP                    | 2.3E+02  | PHYSPROP      | 9.7E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 8.4E+02                               | 1.1E+05                                 | WATER  | 3.2E+01                | EPI                  | 1.8E+00                | PHYSPROP             | 5.0E+03                        | PHYSPROP                 | 2.6E+02                    | 3.8E+01  | 9.0E+01      | 6.8E+03               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethane, 1,2-                  |         | 107-06-2   | 99.01            | PHYSPROP | 4.8E+02                   | 1.2E+03                        | PHYSPROP                    | 7.9E+01  | PHYSPROP      | 3.6E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 8.6E+02                               | 1.1E+05                                 | WATER  | 4.0E+01                | EPI                  | 1.5E+00                | PHYSPROP             | 6.6E+03                        | PHYSPROP                 | 1.6E+02                    | 3.8E+01  | 9.0E+01      | 4.2E+03               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethylene, 1,1-                |         | 75-35-4    | 97.01            | PHYSPROP | 1.1E+00                   | 2.6E+02                        | PHYSPROP                    | 6.0E+02  | PHYSPROP      | 1.2E+02  | PHYSPROP | 1.2E+00                      | CR89                         | 8.6E+02                               | 1.1E+05                                 | WATER  | 3.2E+01                | EPI                  | 2.1E+00                | PHYSPROP             | 2.4E+03                        | PHYSPROP                 | 4.4E+02                    | 3.7E+01  | 8.8E+01      | 1.2E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethylene, 1,2-cis-            |         | 156-59-2   | 97.01            | PHYSPROP | 1.7E+01                   | 4.1E+03                        | PHYSPROP                    | 2.0E+02  | PHYSPROP      | 8.0E+02  | PHYSPROP | 1.3E+00                      | CR89                         | 8.8E+02                               | 1.1E+05                                 | WATER  | 4.0E+01                | EPI                  | 1.9E+00                | PHYSPROP             | 6.4E+03                        | PHYSPROP                 | 4.2E+02                    | 3.7E+01  | 8.8E+01      | 1.1E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethylene, 1,2-trans-          |         | 156-60-5   | 97.01            | PHYSPROP | 3.8E+01                   | 9.4E+03                        | PHYSPROP                    | 3.3E+02  | EPI           | 5.0E+01  | PHYSPROP | 1.3E+00                      | CR89                         | 8.8E+02                               | 1.1E+05                                 | WATER  | 4.0E+01                | EPI                  | 2.1E+00                | PHYSPROP             | 4.5E+03                        | PHYSPROP                 | 4.2E+02                    | 3.7E+01  | 8.8E+01      | 1.1E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloroethoxy Acetic Acid, 2,4-      |         | 94-75-7    | 222.02           | PHYSPROP | 1.4E+05                   | 3.5E+08                        | EPI                         | 8.3E+05  | PHYSPROP      | 1.4E+02  | PHYSPROP | 1.4E+00                      | PubChem                      | 1.4E+02                               | 7.3E+06                                 | WATER  | 3.0E+01                | EPI                  | 2.8E+00                | PHYSPROP             | 6.8E+02                        | PHYSPROP                 | 1.8E+00                    | 4.4E+00  | 6.6E+03      | EPI                   |                       |                                      |                     |  |  |  |  |  |
| Dichlorophenoxybutyric Acid, 4-[2,4-] |         | 94-82-6    | 252.02           | PHYSPROP | 9.4E+08                   | 2.3E+09                        | PHYSPROP                    | 1.1E+05  | PHYSPROP      | 1.2E+02  | PHYSPROP | 1.4E+00                      | ChemNet                      | 2.6E+02                               | 6.7E+06                                 | WATER  | 3.7E+02                | PubChem              | 3.5E+00                | PHYSPROP             | 4.6E+01                        | PHYSPROP                 | 8.4E+02                    | 2.6E+03  | 6.3E+00      | 1.4E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloropropane, 1,2-                 |         | 78-87-5    | 111.02           | PHYSPROP | 1.2E+01                   | 2.8E+03                        | PHYSPROP                    | 5.3E+01  | PHYSPROP      | 1.0E+02  | PHYSPROP | 1.2E+00                      | PHYSPROP                     | 7.3E+02                               | 9.7E+06                                 | WATER  | 3.1E+00                | PHYSPROP             | 2.8E+03                | PHYSPROP             | 3.1E+02                        | 5.4E+01                  | 1.1E+00                    | 7.5E+03  | EPI          |                       |                       |                                      |                     |  |  |  |  |  |
| Dichloropropane, 1,3-                 |         | 142-28-9   | 111.02           | PHYSPROP | 4.0E+02                   | 9.8E+04                        | PHYSPROP                    | 1.8E+01  | PHYSPROP      | 1.0E+02  | PHYSPROP | 1.2E+00                      | CR89                         | 7.4E+02                               | 9.8E+06                                 | WATER  | 7.2E+01                | EPI                  | 2.0E+00                | PHYSPROP             | 2.8E+03                        | PHYSPROP                 | 3.2E+02                    | 5.4E+01  | 1.1E+00      | 7.8E+03               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloropropane, 2,3-                 |         | 616-239-3  | 111.02           | PHYSPROP | 1.5E+07                   | 3.6E+09                        | PHYSPROP                    | 1.8E+01  | PHYSPROP      | 2.5E+01  | EPI      | 1.4E+00                      | CR89                         | 6.8E+02                               | 9.9E+06                                 | WATER  | 5.6E+00                | EPI                  | 7.8E+00                | PHYSPROP             | 6.4E+04                        | PHYSPROP                 | 4.3E+03                    | 5.5E+01  | 1.2E+00      | 9.8E+04               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloropropane, 1,3-                 |         | 102-75-6   | 111.02           | PHYSPROP | 1.5E+02                   | 3.6E+03                        | PHYSPROP                    | 1.4E+01  | PHYSPROP      | 1.5E+01  | PHYSPROP | 1.2E+00                      | LANGE                        | 7.2E+02                               | 9.8E+06                                 | WATER  | 7.3E+02                | EPI                  | 2.0E+00                | PHYSPROP             | 2.8E+03                        | PHYSPROP                 | 3.1E+02                    | 5.4E+01  | 1.1E+00      | 8.3E+03               | EPI                   |                                      |                     |  |  |  |  |  |
| Dichloros                             |         | 62-73-7    | 222.02           | PHYSPROP | 2.4E+05                   | 5.7E+07                        | EPI                         | 1.6E+02  | PHYSPROP      | 6.0E+01  | PHYSPROP | 1.4E+00                      | CR89                         | 2.8E+02                               | 7.3E+06                                 | WATER  | 5.4E+01                | EPI                  | 1.4E+00                | PHYSPROP             | 8.0E+03                        | PHYSPROP                 | 4.6E+03                    | 1.8E+00  | 4.4E+00      | 8.0E+04               | EPI                   |                                      |                     |  |  |  |  |  |
| Dicrotophos                           |         | 141-66-2   | 24E+02           | PHYSPROP | 2.1E+09                   | 5.0E+11                        | PHYSPROP                    | 1.6E+04  | PHYSPROP      | 7.9E+01  | EPI      | 1.2E+00                      | CR89                         | 2.5E+02                               | 6.4E+06                                 | WATER  | 1.7E+01                | EPI                  | 0.0E+00                | PHYSPROP             | 1.0E+06                        | PHYSPROP                 | 4.6E+03                    | 4.3E+02  | 2.4E+00      | 5.4E+00               | 7.3E+04               | EPI                                  |                     |  |  |  |  |  |
| Dicyclopentadiene                     |         | 77-73-6    | 132.02           | PHYSPROP | 2.6E+00                   | 6.3E+02                        | PHYSPROP                    | 2.3E+00  | EPI           | 1.0E+00  | PHYSPROP | 9.3E+01                      | LANGE                        | 5.6E+02                               | 7.8E+06                                 | WATER  | 1.5E+03                | EPI                  | 3.2E+00                | PHYSPROP             | 2.6E+01                        | PHYSPROP                 | 1.6E+01                    | 5.8E+01  | 1.4E+00      | 3.6E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Diethylm                              |         | 60-57-1    | 3.8E+02          | PHYSPROP | 4.1E+04                   | 1.0E+05                        | PHYSPROP                    | 5.9E+06  | PHYSPROP      | 1.8E+02  | PHYSPROP | 1.8E+00                      | CR89                         | 2.3E+02                               | 6.0E+06                                 | WATER  | 2.0E+04                | EPI                  | 5.4E+00                | PHYSPROP             | 2.0E+01                        | PHYSPROP                 | 2.4E+01                    | 1.4E+01  | 1.4E+01      | 3.3E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Diesel Engine Exhaust                 |         | NA         |                  |          |                           |                                |                             |          |               |          |          |                              |                              |                                       |   |  |                        |                      |                        |                      |                                |                          |                            |          |              |                       |                       |                                      |                     |  |  |  |  |  |
| Diethanolamine                        |         | 111-42-2   | 111.02           | PHYSPROP | 1.6E+09                   | 3.9E+11                        | EPI                         | 2.8E+04  | PHYSPROP      | 2.8E+01  | PHYSPROP | 1.1E+00                      | CR89                         | 7.7E+02                               | 9.8E+06                                 | WATER  | 1.0E+00                | EPI                  | 1.4E+00                | PHYSPROP             | 1.0E+06                        | PHYSPROP                 | 1.8E+04                    | 4.1E+01  | 9.8E+01      | 4.5E+04               | EPI                   |                                      |                     |  |  |  |  |  |
| Diethylene Glycol Monobutyl Ether     |         | 112-34-5   | 166.02           | PHYSPROP | 2.9E+07                   | 7.2E+09                        | PHYSPROP                    | 2.2E+02  | PHYSPROP      | 5.8E+01  | PHYSPROP | 9.6E+01                      | CR89                         | 4.1E+02                               | 7.0E+06                                 | WATER  | 1.0E+01                | EPI                  | 5.6E+01                | PHYSPROP             | 1.0E+06                        | PHYSPROP                 | 2.2E+03                    | 8.5E+01  | 2.0E+00      | 9.5E+04               | EPI                   |                                      |                     |  |  |  |  |  |
| Diethylene Glycol Monomethyl Ether    |         | 111-90-0   | 132.02           | PHYSPROP | 9.1E+07                   | 2.2E+08                        | EPI                         | 1.3E+01  | PHYSPROP      | 7.6E+01  | PHYSPROP | 9.9E+01                      | CR89                         | 5.6E+02                               | 8.0E+06                                 | WATER  | 1.0E+00                | EPI                  | 5.4E+01                | PHYSPROP             | 1.0E+06                        | PHYSPROP                 | 5.4E+04                    | 5.9E+01  | 1.4E+00      | 1.2E+04               | EPI                   |                                      |                     |  |  |  |  |  |
| Diethylformamide                      |         | 60-48-6    | 125.02           | PHYSPROP | 3.2E+06                   | 1.3E+07                        | PHYSPROP                    | 2.7E+01  | PHYSPROP      | 1.3E+02  | PHYSPROP | 9.1E+01                      | CR89                         | 5.9E+02                               | 1.9E+06                                 | WATER  | 3.4E+02                | EPI                  | 1.5E+00                | PHYSPROP             | 6.1E+03                        | PHYSPROP                 | 4.7E+02                    | 5.0E+01  | 1.2E+00      | 1.2E+02               | EPI                   |                                      |                     |  |  |  |  |  |
| Diethylstilbestrol                    |         | 55-53-1    | 275.02           | PHYSPROP | 2.4E+10                   | 5.8E+12                        | PHYSPROP                    | 1.4E+08  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.2E+00                      | LANGE                        | 1.7E+02                               | 2.5E+06                                 | WATER  | 2.7E+05                | EPI                  | 3.3E+00                | PHYSPROP             | 1.3E+01                        | PHYSPROP                 | 7.2E+03                    | 3.3E+00  | 1.3E+01      | 1.1E+01               | EPI                   |                                      |                     |  |  |  |  |  |
| Difenazquat                           |         | 43222-48-6 | 3.6E+02          | PHYSPROP | 1.9E+07                   | 4.6E+09                        | EPI                         | 4.1E+12  | PHYSPROP      | 1.6E+02  |          |                              |                              |                                       |   |  |                        |                      |                        |                      |                                |                          |                            |          |              |                       |                       |                                      |                     |  |  |  |  |  |

Regional Removal Management Level (RML) Chemical-specific Parameters Supporting Table May 2016

| Contaminant                     | Analyte | CAS No.    | Molecular Weight |         | Volatility Parameters     |                                |                            |          | Melting Point |         | Density  |                              | Diffusivity in Air and Water |                       |                     |                                       | Partition Coefficients                  |                        |                     |                            | Water Solubility        |          | Tapwater Dermal Parameters |              |         |                        |                      |                                     |                    |         |     |
|---------------------------------|---------|------------|------------------|---------|---------------------------|--------------------------------|----------------------------|----------|---------------|---------|----------|------------------------------|------------------------------|-----------------------|---------------------|---------------------------------------|---|------------------------|---------------------|----------------------------|-------------------------|----------|----------------------------|--------------|---------|------------------------|----------------------|-------------------------------------|--------------------|---------|-----|
|                                 |         |            | MMW              | MMW Ref | H <sup>+</sup> (unitless) | HLC (atm-m <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP       | VP Ref        | MP      | MP Ref   | Density (g/cm <sup>3</sup> ) | Density Ref                  | K <sub>ow</sub> (log) | K <sub>ow</sub> Ref | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | K <sub>oc</sub> (L/kg) | K <sub>oc</sub> Ref | K <sub>ow</sub> (unitless) | log K <sub>ow</sub> Ref | S (mg/L) | S Ref                      | B (unitless) | B Ref   | T <sub>app</sub> (min) | T <sub>app</sub> Ref | R <sub>p</sub> (cm <sup>2</sup> /s) | R <sub>p</sub> Ref |         |     |
| Ethyl Ether                     |         | 60-29-7    | 74.08            | 74.08   | 5.06                      | 2.42                           | 0.43                       | PHYSPROP | 5.4E+02       | 1.2E+03 | 0.71     | 0.71                         | 0.889                        | 0.889                 | 7.1E-01             | 0.889                                 | 6.5E-02                                 | 9.4E-06                | 9.7E+00             | 0.90E+00                   | 2.8E-01                 | PHYSPROP | 1.0E+06                    | PHYSPROP     | 6.6E-01 | PHYSPROP               | 6.6E-01              | 2.7E-01                             | 6.6E-01            | 2.4E-03 | EPI |
| Ethyl Methacrylate              |         | 97-83-2    | 116.10           | 116.10  | 2.3E-02                   | 5.7E-04                        | EPI                        | 2.1E+01  | PHYSPROP      | 7.5E+01 | PHYSPROP | 9.1E-01                      | 0.889                        | 6.5E-02               | 8.4E-06             | WATER                                 | 1.7E+01                                 | EPI                    | 1.9E+00             | PHYSPROP                   | 5.4E+03                 | PHYSPROP | 2.9E-02                    | 4.6E-01      | 1.1E+00 | 7.0E-03                | EPI                  |                                     |                    |         |     |
| Ethyl-p-nitrophenyl Phosphonate |         | 2104-64-5  | 3.2E+02          | 3.2E+02 | 1.8E-05                   | 4.4E-07                        | EPI                        | 9.5E-07  | PHYSPROP      | 3.6E+01 | PHYSPROP | 1.3E+00                      | 0.889                        | 2.2E-02               | 5.5E-06             | WATER                                 | 1.5E+04                                 | EPI                    | 4.8E+00             | PHYSPROP                   | 3.1E+00                 | PHYSPROP | 2.9E-01                    | 6.8E+00      | 1.6E+01 | 3.6E-02                | EPI                  |                                     |                    |         |     |
| Ethylene                        |         | 100-41-4   | 1.1E+02          | 1.1E+02 | 3.2E-01                   | 7.9E-03                        | PHYSPROP                   | 9.6E+00  | PHYSPROP      | 9.5E+01 | PHYSPROP | 0.8E-01                      | 0.889                        | 6.8E-02               | 8.5E-06             | WATER                                 | 4.5E-02                                 | EPI                    | 3.2E+00             | PHYSPROP                   | 1.7E+02                 | PHYSPROP | 2.0E-01                    | 4.1E-01      | 9.9E-01 | 4.9E-02                | EPI                  |                                     |                    |         |     |
| Ethylene Cyanohydrin            |         | 109-78-4   | 7.1E+01          | 7.1E+01 | 9.1E-07                   | 7.5E-09                        | EPI                        | 8.0E-02  | PHYSPROP      | 4.6E+01 | PHYSPROP | 1.0E+00                      | 0.889                        | 1.0E-01               | 1.2E-05             | WATER                                 | 1.0E+00                                 | EPI                    | 9.4E-01             | PHYSPROP                   | 4.8E-04                 | PHYSPROP | 6.3E-01                    | 2.6E-01      | 6.3E-01 | 1.5E-04                | EPI                  |                                     |                    |         |     |
| Ethylene Diamine                |         | 107-13-3   | 106.15           | 106.15  | 1.2E-02                   | 1.7E-09                        | PHYSPROP                   | 9.0E+00  | PHYSPROP      | 9.0E+01 | PHYSPROP | 0.8E-01                      | 0.889                        | 1.1E-01               | 1.2E-05             | WATER                                 | 1.5E+01                                 | EPI                    | 2.4E+00             | PHYSPROP                   | 1.5E+05                 | PHYSPROP | 1.5E-01                    | 3.2E-01      | 1.5E-01 | 2.8E-05                | EPI                  |                                     |                    |         |     |
| Ethylene Glycol                 |         | 107-21-1   | 62E+00           | 62E+00  | 2.5E-06                   | 6.0E-08                        | PHYSPROP                   | 9.2E-02  | PHYSPROP      | 1.3E+01 | PHYSPROP | 1.1E+00                      | 0.889                        | 1.2E-01               | 1.4E-05             | WATER                                 | 1.0E+00                                 | EPI                    | 1.4E+00             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 2.7E-04                    | 2.3E-01      | 5.6E-01 | 8.8E-05                | EPI                  |                                     |                    |         |     |
| Ethylene Glycol Monobutyl Ether |         | 111-76-2   | 12E+02           | 12E+02  | 6.5E-05                   | 1.6E-06                        | PHYSPROP                   | 8.8E-01  | PHYSPROP      | 7.5E+01 | PHYSPROP | 1.0E+00                      | 0.889                        | 6.3E-02               | 8.1E-06             | WATER                                 | 2.8E+00                                 | EPI                    | 8.3E-01             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 5.1E-03                    | 4.8E-01      | 1.2E+01 | 1.2E-03                | EPI                  |                                     |                    |         |     |
| Ethylene Oxide                  |         | 75-21-8    | 4.4E+01          | 4.4E+01 | 6.1E-03                   | 1.5E-04                        | PHYSPROP                   | 1.3E+03  | PHYSPROP      | 1.1E+02 | PHYSPROP | 0.8E-01                      | 0.889                        | 1.3E-01               | 1.5E-05             | WATER                                 | 3.2E+00                                 | EPI                    | 3.0E-01             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 1.4E-03                    | 1.9E-01      | 9.4E-01 | 5.6E-04                | EPI                  |                                     |                    |         |     |
| Ethylene Thiourea               |         | 96-45-7    | 1.0E+02          | 1.0E+02 | 5.6E-10                   | 1.4E-11                        | PHYSPROP                   | 2.0E-06  | PHYSPROP      | 2.0E+02 | PHYSPROP | 1.3E+00                      | 0.889                        | 8.7E-02               | 1.0E-05             | WATER                                 | 1.3E+01                                 | EPI                    | 6.6E-01             | PHYSPROP                   | 2.0E+04                 | PHYSPROP | 1.9E-04                    | 3.9E-01      | 4.5E-01 | 1.5E-04                | EPI                  |                                     |                    |         |     |
| Ethylamine                      |         | 151-61-4   | 59.09            | 59.09   | 4.9E-04                   | 1.2E-05                        | EPI                        | 1.2E+02  | PHYSPROP      | 7.0E+01 | PHYSPROP | 0.8E-01                      | 0.889                        | 1.3E-01               | 1.4E-05             | WATER                                 | 9.0E+00                                 | EPI                    | 2.8E-01             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 1.0E+06                    | PHYSPROP     | 1.8E-01 | 1.8E-01                | 4.4E-01              | 5.8E-04                             | EPI                |         |     |
| Ethylthioethyl Ethyl Glycolate  |         | 84-72-0    | 2.8E+02          | 2.8E+02 | 2.7E-07                   | 6.6E-09                        | PHYSPROP                   | 2.2E-04  | PHYSPROP      | 2.3E+01 | EPI      | 1.0E+03                      | 0.889                        | 4.4E-02               | 5.2E-06             | WATER                                 | 1.0E+03                                 | EPI                    | 2.2E+00             | PHYSPROP                   | 7.7E-03                 | PHYSPROP | 7.7E-03                    | 3.9E+00      | 9.4E+00 | 1.2E-03                | EPI                  |                                     |                    |         |     |
| Enamphos                        |         | 22224-92-6 | 3.0E+02          | 3.0E+02 | 4.9E-08                   | 1.2E-09                        | EPI                        | 1.0E-06  | PHYSPROP      | 4.9E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 2.1E-02               | 5.4E-06             | WATER                                 | 4.0E+02                                 | EPI                    | 3.2E+00             | PHYSPROP                   | 3.3E+02                 | PHYSPROP | 2.9E-02                    | 5.3E+00      | 1.3E+01 | 4.4E-03                | EPI                  |                                     |                    |         |     |
| Fenpropathrin                   |         | 39515-41-8 | 3.5E+02          | 3.5E+02 | 3.1E-04                   | 7.6E-06                        | EPI                        | 5.5E-06  | PHYSPROP      | 4.7E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 3.8E-02               | 4.5E-06             | WATER                                 | 2.2E+04                                 | EPI                    | 5.7E+00             | PHYSPROP                   | 3.3E-01                 | PHYSPROP | 1.2E+00                    | 9.5E+00      | 3.7E+01 | 1.7E-01                | EPI                  |                                     |                    |         |     |
| Fenvalerate                     |         | 51630-58-1 | 4.2E+02          | 4.2E+02 | 2.1E-06                   | 3.5E-08                        | EPI                        | 1.4E-09  | PHYSPROP      | 1.4E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 1.8E-02               | 4.4E-06             | WATER                                 | 3.2E+05                                 | EPI                    | 6.2E+00             | PHYSPROP                   | 3.1E-01                 | PHYSPROP | 2.4E-02                    | PHYSPROP     | 7.4E-01 | 2.4E+01                | 8.1E+01              | 9.4E-02                             | EPI                |         |     |
| Fluometuron                     |         | 2164-17-2  | 2.3E+02          | 2.3E+02 | 1.1E-07                   | 2.6E-09                        | EPI                        | 9.4E-07  | PHYSPROP      | 1.6E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 3.0E-02               | 5.9E-06             | WATER                                 | 2.9E-02                                 | EPI                    | 2.4E+00             | PHYSPROP                   | 1.1E+02                 | PHYSPROP | 1.1E+02                    | PHYSPROP     | 1.9E-02 | 2.1E+00                | 5.0E+00              | 3.2E-03                             | EPI                |         |     |
| Fluoride                        |         | 16984-48-8 | 3.8E+01          | 3.8E+01 | EPI                       | EPI                            | EPI                        | EPI      | EPI           | 2.2E+02 | EPI      | 1.6E+00                      | 0.889                        | 1.5E+02               | BAES                | 1.5E+02                               | BAES                                    | 2.9E-02                | EPI                 | 2.4E+00                    | PHYSPROP                | 1.7E+00  | EPI                        | 2.4E-03      | 1.7E-01 | 4.1E-01                | 1.0E-03              | RAGSE                               |                    |         |     |
| Fluorine (Soluble Fluoride)     |         | 7782-41-4  | 3.8E+01          | 3.8E+01 | PHYSPROP                  | PHYSPROP                       | PHYSPROP                   | PHYSPROP | PHYSPROP      | 2.2E+02 | PHYSPROP | 1.6E+00                      | 0.889                        | 1.5E+02               | BAES                | 1.5E+02                               | BAES                                    | 2.9E-02                | EPI                 | 2.4E+00                    | PHYSPROP                | 1.7E+00  | EPI                        | 2.4E-03      | 1.7E-01 | 4.1E-01                | 1.0E-03              | RAGSE                               |                    |         |     |
| Fluridone                       |         | 59756-60-4 | 3.3E+02          | 3.3E+02 | 3.3E-07                   | 8.1E-09                        | EPI                        | 9.8E-08  | PHYSPROP      | 1.5E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 4.0E-02               | 4.7E-06             | WATER                                 | 5.7E+04                                 | EPI                    | 3.2E+00             | PHYSPROP                   | 1.1E+01                 | PHYSPROP | 2.0E-02                    | 7.3E+00      | 1.8E+01 | 2.8E-03                | EPI                  |                                     |                    |         |     |
| Flurpirimidol                   |         | 56425-91-3 | 3.1E+02          | 3.1E+02 | 5.4E-08                   | 1.3E-09                        | EPI                        | 3.6E-07  | PHYSPROP      | 9.5E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 4.1E-02               | 4.8E-06             | WATER                                 | 2.2E+03                                 | EPI                    | 3.3E+00             | PHYSPROP                   | 1.2E+01                 | PHYSPROP | 3.1E-02                    | 5.9E+00      | 1.4E+01 | 4.6E-03                | EPI                  |                                     |                    |         |     |
| Flutacizone                     |         | 85509-19-9 | 3.2E+02          | 3.2E+02 | 2.2E-02                   | 2.9E-04                        | PHYSPROP                   | 2.3E-02  | PHYSPROP      | 1.5E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 4.1E-02               | 4.8E-06             | WATER                                 | 8.1E+04                                 | EPI                    | 3.7E+00             | PHYSPROP                   | 5.4E-01                 | PHYSPROP | 1.2E+01                    | PHYSPROP     | 2.0E-02 | 7.3E+00                | 1.8E+01              | 2.8E-03                             | EPI                |         |     |
| Flutolanil                      |         | 66332-96-5 | 3.2E+02          | 3.2E+02 | 1.3E-07                   | 3.2E-09                        | EPI                        | 4.9E-08  | PHYSPROP      | 1.0E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 4.0E-02               | 4.7E-06             | WATER                                 | 2.6E+03                                 | EPI                    | 3.7E+00             | PHYSPROP                   | 6.5E+00                 | PHYSPROP | 4.8E-02                    | 6.8E+00      | 1.6E+01 | 6.9E-03                | EPI                  |                                     |                    |         |     |
| Fluralaner                      |         | 69409-94-5 | 5.0E+02          | 5.0E+02 | 5.9E-07                   | 1.5E-08                        | PHYSPROP                   | 1.0E-07  | PHYSPROP      | 1.6E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 4.0E-02               | 3.5E-06             | WATER                                 | 7.3E+05                                 | EPI                    | 6.8E+00             | PHYSPROP                   | 5.0E-03                 | PHYSPROP | 6.8E-01                    | 6.9E+01      | 2.7E+02 | 7.9E-02                | EPI                  |                                     |                    |         |     |
| Folpet                          |         | 133-07-3   | 3.0E+02          | 3.0E+02 | 3.1E-06                   | 7.7E-08                        | EPI                        | 1.6E-07  | PHYSPROP      | 1.8E+02 | EPI      | 1.2E+00                      | 0.889                        | 4.3E-02               | 5.0E-06             | WATER                                 | 1.8E+03                                 | EPI                    | 2.9E+00             | PHYSPROP                   | 8.0E-01                 | PHYSPROP | 1.8E-02                    | 4.8E+00      | 1.2E+01 | 2.7E-03                | EPI                  |                                     |                    |         |     |
| Fomesafen                       |         | 72178-02-0 | 4.4E+02          | 4.4E+02 | 3.1E-11                   | 7.5E-13                        | PHYSPROP                   | 7.5E-07  | EPI           | 2.2E+02 | PHYSPROP | 1.3E+00                      | 0.889                        | 1.9E-02               | 4.6E-06             | WATER                                 | 1.5E+03                                 | EPI                    | 2.9E+00             | PHYSPROP                   | 5.0E-01                 | PHYSPROP | 3.7E-03                    | 3.0E+01      | 7.2E+01 | 4.6E-04                | EPI                  |                                     |                    |         |     |
| Fonferrazole                    |         | 90344-23-9 | 4.5E+02          | 4.5E+02 | 1.4E-04                   | 7.1E-03                        | PHYSPROP                   | 2.4E-04  | PHYSPROP      | 3.8E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 3.8E-02               | 4.6E-06             | WATER                                 | 8.1E+04                                 | EPI                    | 3.9E+00             | PHYSPROP                   | 1.6E-01                 | PHYSPROP | 1.6E-01                    | 2.5E+00      | 6.0E+00 | 2.7E-02                | EPI                  |                                     |                    |         |     |
| Formaldehyde                    |         | 50-00-0    | 3.0E+01          | 3.0E+01 | 1.4E-05                   | 3.4E-07                        | PHYSPROP                   | 3.9E+03  | EPI           | 9.2E+01 | PHYSPROP | 8.2E-01                      | 0.889                        | 1.7E-01               | 1.7E-05             | WATER                                 | 1.0E+00                                 | EPI                    | 3.5E-01             | PHYSPROP                   | 4.0E+05                 | PHYSPROP | 3.8E-03                    | 1.5E-01      | 3.7E-01 | 1.8E-03                | EPI                  |                                     |                    |         |     |
| Formic Acid                     |         | 64-18-6    | 4.6E+01          | 4.6E+01 | 6.8E-06                   | 1.7E-07                        | PHYSPROP                   | 4.3E+01  | PHYSPROP      | 8.3E+00 | PHYSPROP | 1.2E+00                      | 0.889                        | 1.5E-01               | 1.7E-05             | WATER                                 | 1.0E+00                                 | EPI                    | 5.4E-01             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 9.9E-04                    | 1.9E-01      | 4.6E-01 | 3.8E-04                | EPI                  |                                     |                    |         |     |
| Fosetyl-AL                      |         | 39148-24-8 | 3.5E+02          | 3.5E+02 | 1.3E-12                   | 3.2E-14                        | PHYSPROP                   | 7.5E-11  | PHYSPROP      | 2.2E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 3.8E-02               | 4.4E-06             | WATER                                 | 6.5E+03                                 | EPI                    | 2.4E+00             | PHYSPROP                   | 1.1E+05                 | PHYSPROP | 3.0E-06                    | 1.0E+01      | 2.4E+01 | 4.1E-07                | EPI                  |                                     |                    |         |     |
| Furans                          |         |            |                  |         |                           |                                |                            |          |               |         |          |                              |                              |                       |                     |                                       |   |                        |                     |                            |                         |          |                            |              |         |                        |                      |                                     |                    |         |     |
| Furofenfurin                    |         | 132-64-9   | 1.7E+02          | 1.7E+02 | 8.7E-03                   | 2.1E-04                        | EPI                        | 2.5E-03  | PHYSPROP      | 8.7E+01 | PHYSPROP | 1.1E+00                      | 0.889                        | 5.5E-02               | 7.4E-06             | WATER                                 | 9.2E-01                                 | EPI                    | 4.1E+00             | PHYSPROP                   | 3.1E+00                 | PHYSPROP | 4.9E-01                    | 9.2E-01      | 2.2E+00 | 9.8E-02                | EPI                  |                                     |                    |         |     |
| Furan                           |         | 110-00-9   | 6.8E+01          | 6.8E+01 | 2.2E-01                   | 5.4E-03                        | EPI                        | 6.0E+02  | PHYSPROP      | 8.6E+01 | PHYSPROP | 9.5E-01                      | 0.889                        | 1.0E-01               | 1.2E-05             | WATER                                 | 8.0E+01                                 | EPI                    | 1.3E+00             | PHYSPROP                   | 1.0E+04                 | PHYSPROP | 1.6E-02                    | 2.5E-01      | 6.1E-01 | 5.1E-03                | EPI                  |                                     |                    |         |     |
| Tetrahydrofuran                 |         | 109-99-9   | 7.2E+01          | 7.2E+01 | 2.9E-03                   | 7.1E-05                        | PHYSPROP                   | 1.6E+02  | PHYSPROP      | 1.1E+02 | PHYSPROP | 0.8E-01                      | 0.889                        | 9.9E-02               | 1.1E-05             | WATER                                 | 1.1E+01                                 | EPI                    | 4.6E-01             | PHYSPROP                   | 1.0E+06                 | PHYSPROP | 4.1E-03                    | 2.7E-01      | 6.4E-01 | 1.3E-03                | EPI                  |                                     |                    |         |     |
| Furazolidone                    |         | 67-45-8    | 2.3E+02          | 2.3E+02 | 1.3E-09                   | 3.3E-11                        | PHYSPROP                   | 2.6E-06  | PHYSPROP      | 3.6E+02 | PHYSPROP | 1.2E+00                      | 0.889                        | 5.1E-02               | 6.0E-06             | WATER                                 | 8.6E-02                                 | EPI                    | 4.0E-02             | PHYSPROP                   | 4.0E+01                 | PHYSPROP | 4.6E-04                    | 1.9E+00      | 4.6E+00 | 8.0E-05                | EPI                  |                                     |                    |         |     |
| Furfural                        |         | 98-01-1    | 9.6E+01          | 9.6E+01 | 1.5E-04                   | 3.8E-06                        | EPI                        | 2.2E+00  | PHYSPROP      | 2.8E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 8.5E-02               | 1.1E-05             | WATER                                 | 6.1E+00                                 | EPI                    | 4.1E-01             | PHYSPROP                   | 7.4E+04                 | PHYSPROP | 3.2E-03                    | 3.6E-01      | 8.7E-01 | 8.5E-04                | EPI                  |                                     |                    |         |     |
| Furtozole                       |         | 531-82-8   | 3.2E+02          | 3.2E+02 | 1.5E-02                   | 3.7E-04                        | PHYSPROP                   | 3.8E-05  | EPI           | 3.8E+01 | PHYSPROP | 1.2E+00                      | 0.889                        | 1.7E-02               | 4.9E-06             | WATER                                 | 5.8E+03                                 | EPI                    | 3.7E+00             | PHYSPROP                   | 5.4E-01                 | PHYSPROP | 5.2E-02                    | 6.1E+00      | 9.4E-04 | 2.8E-04                | EPI                  |                                     |                    |         |     |
| Furmecycloz                     |         | 06508-05-0 | 2.5E+02          | 2.5E+02 | 2.8E-07                   | 6.9E-09                        | PHYSPROP                   |          |               |         |          |                              |                              |                       |                     |                                       |   |                        |                     |                            |                         |          |                            |              |         |                        |                      |                                     |                    |         |     |



Regional Removal Management Level (RML) Chemical-specific Parameters Supporting Table May 2016

| Contaminant                                  | Molecular Weight |         | Volatility Parameters |         |                           |                              | Melting Point              |          | Density  |          | Diffusivity in Air and Water |                              |             |                                       | Partition Coefficients                  |   |                        |                     | Water Solubility    |                     |                                |                         | Tapwater Dermal Parameters |          |              |          |                       |                      |                 |          |          |          |          |          |          |          |         |         |         |         |       |
|--|------------------|---------|-----------------------|---------|---------------------------|------------------------------|----------------------------|----------|----------|----------|------------------------------|------------------------------|-------------|---------------------------------------|---|---|------------------------|---------------------|---------------------|---------------------|--------------------------------|-------------------------|----------------------------|----------|--------------|----------|-----------------------|----------------------|-----------------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|  | Analyte          | CAS No. | MW                    | MMF Ref | H <sup>+</sup> (unitless) | HLC (atm <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP       | VP Ref   | MP       | MP Ref                       | Density (g/cm <sup>3</sup> ) | Density Ref | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | D <sub>air</sub> and D <sub>water</sub> Ref | K <sub>ow</sub> (L/kg) | K <sub>oc</sub> Ref | K <sub>ow</sub> Ref | K <sub>oc</sub> Ref | log K <sub>ow</sub> (unitless) | log K <sub>oc</sub> Ref | S (mg/L)                   | S Ref    | B (unitless) | B Ref    | T <sub>100</sub> (hr) | T <sub>100</sub> Ref | K <sub>RF</sub> |          |          |          |          |          |          |          |         |         |         |         |       |
| Maleic Hydrazide                             | 123-131          | 11E+02  | PHYSPROP              | 1.1E+02 | 2.7E-11                   | PHYSPROP                     | 2.8E-06                    | PHYSPROP | 3.1E+02  | PHYSPROP | 1.2E+00                      | PHYSPROP                     | 8.2E-02     | 9.5E-06                               | WATER                                   | 2.8E-06                                     | 3.3E+00                | EPI                 | -8.4E-01            | PHYSPROP            | 3.3E+00                        | EPI                     | -6.0E-01                   | PHYSPROP | 1.3E+05      | PHYSPROP | 8.3E-04               | 2.5E-01              | 5.9E-01         | 2.7E-04  | EPI      |          |          |          |          |          |         |         |         |         |       |
| Malonitrile                                  | 109-77-3         | 6.6E+01 | PHYSPROP              | 5.4E-06 | 1.3E-07                   | EPI                          | 2.0E-01                    | EPI      | 3.2E+01  | PHYSPROP | 1.2E+00                      | PHYSPROP                     | 1.2E-01     | 1.4E-05                               | WATER                                   | 3.3E+00                                     | EPI                    | -6.0E-01            | PHYSPROP            | 1.3E+05             | PHYSPROP                       | 8.3E-04                 | EPI                        | -5.9E-01 | PHYSPROP     | 1.3E+05  | PHYSPROP              | 8.3E-04              | 2.5E-01         | 5.9E-01  | 2.7E-04  | EPI      |          |          |          |          |         |         |         |         |       |
| Maronite                                     | 8018-01-7        | 5.4E+02 | PHYSPROP              | 6.2E-10 | 1.5E-11                   | PHYSPROP                     | 1.3E-10                    | PHYSPROP | 1.7E+02  | PHYSPROP | 1.9E+00                      | PubChem                      | 2.0E-02     | 5.1E-06                               | WATER                                   | 6.1E+02                                     | EPI                    | 1.3E+00             | PHYSPROP            | 6.2E+00             | PHYSPROP                       | 6.9E-03                 | 1.1E+02                    | 2.7E-02  | 7.7E-04      | EPI      | 6.2E+00               | PHYSPROP             | 6.9E-03         | 1.1E+02  | 2.7E-02  | 7.7E-04  | EPI      |          |          |          |         |         |         |         |       |
| Maneb  | 12427-38-2       | 3.0E+02 | PHYSPROP              | 2.0E-07 | 4.9E-09                   | PHYSPROP                     | 7.5E-08                    | PHYSPROP | 2.0E+02  | EPI      | 1.0E+00                      | PHYSPROP                     | 4.3E-02     | 5.0E-06                               | WATER                                   | 6.1E+02                                     | EPI                    | 6.2E-01             | PHYSPROP            | 6.0E+00             | PHYSPROP                       | 5.1E+03                 | 4.7E+00                    | 1.1E+01  | 7.7E-04      | EPI      | 6.0E+00               | PHYSPROP             | 5.1E+03         | 4.7E+00  | 1.1E+01  | 7.7E-04  | EPI      |          |          |          |         |         |         |         |       |
| Manganese (Diet)                             | 7439-96-5        | 5.5E+01 | PHYSPROP              | 6.0E+00 | NIOSH                     | 1.2E+03                      | PHYSPROP                   | 6.0E+00  | NIOSH    | 1.2E+03  | PHYSPROP                     | 7.3E+00                      | CRCB9       | 6.5E+01                               | BAES                                    | 6.5E+01                                     | BAES                   | 6.5E+01             | BAES                | 6.5E+01             | BAES                           | 2.9E-03                 | 2.1E-01                    | 5.1E-01  | 1.0E-03      | RAGSE    | 5.5E+01               | PHYSPROP             | 6.0E+00         | 2.1E-01  | 5.1E-01  | 1.0E-03  | RAGSE    |          |          |          |         |         |         |         |       |
| Manganese (Non-Diet)                         | 7439-96-5        | 5.5E+01 | PHYSPROP              | 6.0E+00 | NIOSH                     | 1.2E+03                      | PHYSPROP                   | 6.0E+00  | NIOSH    | 1.2E+03  | PHYSPROP                     | 7.3E+00                      | CRCB9       | 6.5E+01                               | BAES                                    | 6.5E+01                                     | BAES                   | 6.5E+01             | BAES                | 6.5E+01             | BAES                           | 2.9E-03                 | 2.1E-01                    | 5.1E-01  | 1.0E-03      | RAGSE    | 5.5E+01               | PHYSPROP             | 6.0E+00         | 2.1E-01  | 5.1E-01  | 1.0E-03  | RAGSE    |          |          |          |         |         |         |         |       |
| Mephosfolan                                  | 950-10-7         | 2.7E+02 | PHYSPROP              | 4.9E-09 | 1.2E-10                   | PHYSPROP                     | 3.2E-05                    | PHYSPROP | 8.4E+01  | EPI      | 1.0E+00                      | PHYSPROP                     | 4.6E-02     | 5.3E-06                               | WATER                                   | 6.4E+02                                     | EPI                    | 1.0E+00             | PHYSPROP            | 5.7E+01             | PHYSPROP                       | 1.5E-03                 | 3.4E-01                    | 1.8E+00  | 2.4E-04      | EPI      | 5.0E+05               | PHYSPROP             | 1.4E-05         | 7.2E-01  | 1.7E+00  | 3.0E-06  | EPI      |          |          |          |         |         |         |         |       |
| Mepiquat Chloride                            | 24307-26-4       | 1.5E+02 | PHYSPROP              | 1.8E-10 | 4.3E-12                   | PHYSPROP                     | 3.7E-07                    | PHYSPROP | 2.2E+02  | PHYSPROP | 1.0E+00                      | PHYSPROP                     | 6.7E-02     | 7.9E-06                               | WATER                                   | 6.6E+01                                     | EPI                    | -2.8E+00            | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 1.5E-03                 | 3.4E-01                    | 1.8E+00  | 2.4E-04      | EPI      | 5.0E+05               | PHYSPROP             | 1.4E-05         | 7.2E-01  | 1.7E+00  | 3.0E-06  | EPI      |          |          |          |         |         |         |         |       |
| Mercury Compounds                            | 7487-94-7        | 2.7E+02 | PHYSPROP              | 2.8E+02 | PHYSPROP                  | 5.6E+00                      | CRCB9                      | 2.8E+02  | PHYSPROP | 5.6E+00  | CRCB9                        | 5.6E+00                      | CRCB9       | 2.2E-01                               | PHYSPROP                                | 2.2E-01                                     | PHYSPROP               | 2.2E-01             | PHYSPROP            | 2.2E-01             | PHYSPROP                       | 6.9E-04                 | PHYSPROP                   | 6.3E-03  | 3.5E+00      | 8.4E+00  | 1.0E-03               | RAGSE                | 6.9E-04         | PHYSPROP | 6.3E-03  | 3.5E+00  | 8.4E+00  | 1.0E-03  | RAGSE    |          |         |         |         |         |       |
| *Mercuric Chloride (and other Mercury salts) | 7439-97-6        | 2.0E+02 | PHYSPROP              | 3.5E-01 | 8.6E-03                   | PHYSPROP VP/S                | 2.0E-03                    | PHYSPROP | 3.9E+01  | PHYSPROP | 1.4E+01                      | CRCB9                        | 3.1E-02     | 6.3E-06                               | WATER                                   | 5.2E+01                                     | SSL                    | 6.2E-01             | PHYSPROP            | 6.0E-02             | PHYSPROP                       | 6.0E-02                 | PHYSPROP                   | 5.4E-03  | PHYSPROP     | 5.4E-03  | 1.4E+00               | 3.4E+00              | 1.0E-03         | RAGSE    | 6.0E-02  | PHYSPROP | 5.4E-03  | 1.4E+00  | 3.4E+00  | 1.0E-03  | RAGSE   |         |         |         |       |
| *Mercury (elemental)                         | 7439-97-6        | 2.0E+02 | PHYSPROP              | 3.5E-01 | 8.6E-03                   | PHYSPROP VP/S                | 2.0E-03                    | PHYSPROP | 3.9E+01  | PHYSPROP | 1.4E+01                      | CRCB9                        | 3.1E-02     | 6.3E-06                               | WATER                                   | 5.2E+01                                     | SSL                    | 6.2E-01             | PHYSPROP            | 6.0E-02             | PHYSPROP                       | 6.0E-02                 | PHYSPROP                   | 5.4E-03  | PHYSPROP     | 5.4E-03  | 1.4E+00               | 3.4E+00              | 1.0E-03         | RAGSE    | 6.0E-02  | PHYSPROP | 5.4E-03  | 1.4E+00  | 3.4E+00  | 1.0E-03  | RAGSE   |         |         |         |       |
| *Methyl Mercury                              | 22967-92-6       | 2.2E+02 | OTHER                 | 3.4E+02 | PHYSPROP                  | 2.3E-08                      | 5.7E-10                    | EPI      | 6.0E+06  | PHYSPROP | 1.5E+02                      | PHYSPROP                     | 3.9E-02     | 4.6E-06                               | WATER                                   | 9.2E+01                                     | PHYSPROP               | 7.1E-01             | PHYSPROP            | 4.4E+03             | PHYSPROP                       | 4.2E-04                 | 8.1E+00                    | 4.1E+00  | 6.0E-05      | RAGSE    | 4.4E+03               | PHYSPROP             | 4.2E-04         | 8.1E+00  | 4.1E+00  | 6.0E-05  | RAGSE    |          |          |          |         |         |         |         |       |
| *Phenylmercuric Acetate                      | 62-38-4          | 3.4E+02 | PHYSPROP              | 2.3E-08 | 5.7E-10                   | EPI                          | 6.0E+06                    | PHYSPROP | 1.5E+02  | PHYSPROP | 1.5E+02                      | PHYSPROP                     | 3.9E-02     | 4.6E-06                               | WATER                                   | 9.2E+01                                     | PHYSPROP               | 7.1E-01             | PHYSPROP            | 4.4E+03             | PHYSPROP                       | 4.2E-04                 | 8.1E+00                    | 4.1E+00  | 6.0E-05      | RAGSE    | 4.4E+03               | PHYSPROP             | 4.2E-04         | 8.1E+00  | 4.1E+00  | 6.0E-05  | RAGSE    |          |          |          |         |         |         |         |       |
| Merphos                                      | 150-50-5         | 3.0E+02 | PHYSPROP              | 9.3E-04 | 2.3E-05                   | PHYSPROP                     | 2.0E-05                    | PHYSPROP | 1.0E+00  | PHYSPROP | 1.0E+00                      | CRCB9                        | 2.0E-02     | 5.0E-06                               | WATER                                   | 4.9E+04                                     | EPI                    | 7.7E+00             | PHYSPROP            | 3.5E-03             | PHYSPROP                       | 2.8E+01                 | 4.9E+00                    | 2.3E+01  | 4.2E+00      | EPI      | 3.5E-03               | PHYSPROP             | 2.8E+01         | 4.9E+00  | 2.3E+01  | 4.2E+00  | EPI      |          |          |          |         |         |         |         |       |
| Merphos Oxide                                | 78-48-8          | 3.1E+02 | PHYSPROP              | 1.2E-05 | 2.9E-07                   | PHYSPROP                     | 5.3E-06                    | PHYSPROP | 2.5E+01  | CRCB9    | 1.1E+00                      | CRCB9                        | 2.0E-02     | 5.0E-06                               | WATER                                   | 2.4E+03                                     | EPI                    | 5.7E+00             | PHYSPROP            | 2.3E+00             | PHYSPROP                       | 1.1E+01                 | PHYSPROP                   | 1.1E+01  | PHYSPROP     | 1.1E+01  | PHYSPROP              | 1.1E+01              | PHYSPROP        | 1.1E+01  | PHYSPROP | 1.1E+01  | PHYSPROP | 1.1E+01  | PHYSPROP |          |         |         |         |         |       |
| Metalolol                                    | 70837-59-1       | 2.8E+02 | PHYSPROP              | 3.2E-02 | 3.0E-09                   | EPI                          | 6.5E-06                    | PHYSPROP | 7.1E+01  | PHYSPROP | 1.0E+00                      | PHYSPROP                     | 4.4E-02     | 5.2E-06                               | WATER                                   | 3.9E+01                                     | EPI                    | 1.7E+00             | PHYSPROP            | 8.4E+03             | PHYSPROP                       | 3.7E-03                 | 3.9E+00                    | 4.3E+00  | 5.9E-04      | EPI      | 8.4E+03               | PHYSPROP             | 3.7E-03         | 3.9E+00  | 4.3E+00  | 5.9E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methacrylonitrile                            | 126-98-7         | 6.7E+01 | PHYSPROP              | 1.0E-02 | 2.5E-04                   | EPI                          | 7.1E+01                    | PHYSPROP | 3.6E+01  | PHYSPROP | 8.0E-01                      | CRCB9                        | 9.6E-02     | 1.1E-05                               | WATER                                   | 1.3E+01                                     | EPI                    | 6.8E-01             | PHYSPROP            | 2.5E+04             | PHYSPROP                       | 5.9E-03                 | 2.5E-01                    | 6.0E-01  | 1.9E-03      | EPI      | 1.0E+06               | PHYSPROP             | 3.4E-04         | 6.5E-01  | 1.6E+00  | 7.4E-05  | EPI      |          |          |          |         |         |         |         |       |
| Methamidophos                                | 10265-92-6       | 1.4E+02 | PHYSPROP              | 3.5E-08 | 8.7E-10                   | PHYSPROP                     | 3.5E-05                    | PHYSPROP | 4.6E+01  | PHYSPROP | 1.3E+00                      | CRCB9                        | 6.0E-02     | 9.2E-06                               | WATER                                   | 5.4E+00                                     | EPI                    | -8.0E-01            | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 3.4E-04                 | 6.5E-01                    | 1.6E+00  | 7.4E-05      | EPI      | 1.0E+06               | PHYSPROP             | 3.4E-04         | 6.5E-01  | 1.6E+00  | 7.4E-05  | EPI      |          |          |          |         |         |         |         |       |
| Methalol                                     | 67-56-1          | 3.2E+02 | PHYSPROP              | 1.9E-04 | 4.6E-06                   | PHYSPROP                     | 9.8E-01                    | PHYSPROP | 7.9E+01  | PHYSPROP | 1.0E+00                      | CRCB9                        | 1.6E-01     | 1.7E-05                               | WATER                                   | 1.0E+00                                     | EPI                    | -7.7E-01            | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 6.9E-04                 | 1.6E-01                    | 3.8E-01  | 3.2E-04      | EPI      | 1.0E+06               | PHYSPROP             | 6.9E-04         | 1.6E-01  | 3.8E-01  | 3.2E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methidathion                                 | 950-37-8         | 3.0E+02 | PHYSPROP              | 2.9E-07 | 7.2E-09                   | EPI                          | 3.4E-06                    | PHYSPROP | 3.9E+01  | PHYSPROP | 5.4E-06                      | PHYSPROP                     | 7.8E-01     | PHYSPROP                              | 1.3E+00                                 | CRCB9                                       | 4.2E-02                | 4.9E-06             | WATER               | 2.1E+01             | EPI                            | 2.2E+00                 | PHYSPROP                   | 1.9E-02  | PHYSPROP     | 6.8E-04  | PHYSPROP              | 6.3E-03              | 3.5E+00         | 8.4E+00  | 1.0E-03  | RAGSE    | 1.9E-02  | PHYSPROP | 6.8E-04  | PHYSPROP | 6.3E-03 | 3.5E+00 | 8.4E+00 | 1.0E-03 | RAGSE |
| Methion                                      | 16752-77-5       | 1.6E+02 | PHYSPROP              | 3.5E-02 | 2.0E-11                   | EPI                          | 3.2E-04                    | PHYSPROP | 1.2E+02  | PHYSPROP | 1.2E+00                      | CRCB9                        | 4.3E-02     | 7.8E-06                               | WATER                                   | 7.1E+01                                     | EPI                    | 1.5E+00             | PHYSPROP            | 1.0E-02             | PHYSPROP                       | 8.4E-03                 | 9.2E-01                    | 2.2E+00  | 1.7E-03      | EPI      | 1.0E-02               | PHYSPROP             | 8.4E-03         | 9.2E-01  | 2.2E+00  | 1.7E-03  | EPI      |          |          |          |         |         |         |         |       |
| Methoxy-Nitroaniline, 2-                     | 99-59-2          | 1.7E+02 | PHYSPROP              | 5.1E-07 | 1.3E-08                   | PHYSPROP                     | 3.2E-04                    | PHYSPROP | 1.2E+02  | PHYSPROP | 1.2E+00                      | CRCB9                        | 4.3E-02     | 7.8E-06                               | WATER                                   | 7.1E+01                                     | EPI                    | 1.5E+00             | PHYSPROP            | 1.0E-02             | PHYSPROP                       | 8.4E-03                 | 9.2E-01                    | 2.2E+00  | 1.7E-03      | EPI      | 1.0E-02               | PHYSPROP             | 8.4E-03         | 9.2E-01  | 2.2E+00  | 1.7E-03  | EPI      |          |          |          |         |         |         |         |       |
| Methoxychlor                                 | 72-43-5          | 3.5E+02 | PHYSPROP              | 8.3E-06 | 2.0E-07                   | PHYSPROP                     | 2.6E-06                    | PHYSPROP | 1.4E+00  | PHYSPROP | 1.4E+00                      | CRCB9                        | 2.2E-02     | 5.6E-06                               | WATER                                   | 1.0E+00                                     | EPI                    | 5.1E+00             | PHYSPROP            | 1.2E+01             | PHYSPROP                       | 3.1E-01                 | 9.1E+00                    | 2.2E+01  | 4.3E-02      | EPI      | 1.0E-02               | PHYSPROP             | 3.1E-01         | 9.1E+00  | 2.2E+01  | 4.3E-02  | EPI      |          |          |          |         |         |         |         |       |
| Methoxyethyl Acetate, 2-                     | 110-49-6         | 1.2E+02 | PHYSPROP              | 1.3E-05 | 3.1E-07                   | EPI                          | 7.0E-00                    | PHYSPROP | 6.5E+01  | PHYSPROP | 1.0E+00                      | CRCB9                        | 6.6E-02     | 8.7E-06                               | WATER                                   | 2.5E+00                                     | EPI                    | 1.0E-01             | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 1.7E-03                 | 4.8E-01                    | 1.2E+00  | 4.0E-04      | EPI      | 1.0E+06               | PHYSPROP             | 1.7E-03         | 4.8E-01  | 1.2E+00  | 4.0E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methoxyethylamine, 2-                        | 70-29-6          | 1.6E+02 | PHYSPROP              | 1.4E-05 | 3.1E-07                   | PHYSPROP                     | 3.5E+00                    | PHYSPROP | 9.6E-01  | PHYSPROP | 1.0E+00                      | CRCB9                        | 6.6E-02     | 8.7E-06                               | WATER                                   | 2.5E+00                                     | EPI                    | 1.0E-01             | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 1.7E-03                 | 4.8E-01                    | 1.2E+00  | 4.0E-04      | EPI      | 1.0E+06               | PHYSPROP             | 1.7E-03         | 4.8E-01  | 1.2E+00  | 4.0E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methyl Acetate                               | 79-20-9          | 7.4E+01 | PHYSPROP              | 4.7E-03 | 1.2E-04                   | PHYSPROP                     | 2.2E-02                    | PHYSPROP | 9.8E+01  | PHYSPROP | 9.3E-01                      | CRCB9                        | 9.6E-02     | 1.1E-05                               | WATER                                   | 3.1E+00                                     | EPI                    | 1.8E-01             | PHYSPROP            | 2.4E+05             | PHYSPROP                       | 2.6E-03                 | 2.7E-01                    | 6.6E-01  | 7.9E-04      | EPI      | 2.4E+05               | PHYSPROP             | 2.6E-03         | 2.7E-01  | 6.6E-01  | 7.9E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methyl Acrylate                              | 96-33-3          | 8.6E+01 | PHYSPROP              | 8.1E-03 | 2.0E-04                   | EPI                          | 8.7E+01                    | PHYSPROP | 7.7E+01  | PHYSPROP | 9.5E-01                      | CRCB9                        | 8.6E-02     | 1.0E-05                               | WATER                                   | 5.8E+00                                     | EPI                    | 8.0E-01             | PHYSPROP            | 4.9E+04             | PHYSPROP                       | 6.2E-03                 | 3.2E-01                    | 7.7E-01  | 1.8E-03      | EPI      | 4.9E+04               | PHYSPROP             | 6.2E-03         | 3.2E-01  | 7.7E-01  | 1.8E-03  | EPI      |          |          |          |         |         |         |         |       |
| Methyl Ethyl Ketone (2-Butanone)             | 60-34-4          | 7.2E+01 | PHYSPROP              | 2.3E-03 | 5.7E-05                   | PHYSPROP                     | 9.1E+01                    | PHYSPROP | 8.7E+01  | PHYSPROP | 8.0E-01                      | CRCB9                        | 9.3E-02     | 1.0E-05                               | WATER                                   | 4.5E+00                                     | EPI                    | 2.9E-01             | PHYSPROP            | 2.2E+05             | PHYSPROP                       | 3.1E-03                 | 2.7E-01                    | 6.4E-01  | 9.6E-04      | EPI      | 2.2E+05               | PHYSPROP             | 3.1E-03         | 2.7E-01  | 6.4E-01  | 9.6E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methyl Hydrazine                             | 60-34-4          | 4.6E+01 | PHYSPROP              | 1.2E-04 | 3.0E-06                   | PHYSPROP                     | 5.0E+01                    | PHYSPROP | 5.2E+01  | PHYSPROP | 8.7E-01                      | LANGE                        | 1.3E-01     | 1.4E-05                               | WATER                                   | 1.3E+01                                     | EPI                    | -1.1E+00            | PHYSPROP            | 1.0E+06             | PHYSPROP                       | 4.5E-04                 | 1.9E-01                    | 4.6E-01  | 1.7E-04      | EPI      | 1.0E+06               | PHYSPROP             | 4.5E-04         | 1.9E-01  | 4.6E-01  | 1.7E-04  | EPI      |          |          |          |         |         |         |         |       |
| Methyl Isobutyl Ketone (4-methyl-2-pentanone |                  |         |                       |         |                           |                              |                            |          |          |          |                              |                              |             |                                       |   |   |                        |                     |                     |                     |                                |                         |                            |          |              |          |                       |                      |                 |          |          |          |          |          |          |          |         |         |         |         |       |

Regional Removal Management Level (RML) Chemical-specific Parameters Supporting Table May 2016

| Contaminant  | Analyte | CAS No.    | Molecular Weight |         | Volatility Parameters     |                              |                            |         | Melting Point |         | Density  |             | Diffusivity in Air and Water |                                       |   |  | Partition Coefficients |                     |                     |                                | Water Solubility        |          | Tapwater Dermal Parameters |              |                       |                        |                  |         |         |         |     |
|--|---------|------------|------------------|---------|---------------------------|------------------------------|----------------------------|---------|---------------|---------|----------|-------------|------------------------------|---------------------------------------|---|--|------------------------|---------------------|---------------------|--------------------------------|-------------------------|----------|----------------------------|--------------|-----------------------|------------------------|------------------|---------|---------|---------|-----|
|  |         |            | MMW              | MMW Ref | H <sup>+</sup> (unitless) | HLC (atm <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP      | VP Ref        | MP      | MP Ref   | Density Ref | Density (g/cm <sup>3</sup> ) | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | D <sub>soil</sub> (cm <sup>2</sup> /s) | K <sub>ow</sub> (L/Kg) | K <sub>oc</sub> Ref | K <sub>ow</sub> Ref | log K <sub>ow</sub> (unitless) | log K <sub>ow</sub> Ref | S (mg/L) | S Ref                      | B (unitless) | T <sub>1/2</sub> (hr) | R <sub>p</sub> (cm/hr) | K <sub>Ref</sub> |         |         |         |     |
| Nitrotoluene, o-                                     |         | 88-72-2    | 138.16           | 138.16  | 1.36                      | 0.5                          | PHYSPROP                   | 1.2E+00 | EPI           | 1.0E+01 | PHYSPROP | 1.2E+00     | CRC89                        | 5.9E-02                               | 8.7E-06                                 | WATER                                  | 9.2E+02                | EPI                 | 2.3E+00             | PHYSPROP                       | 3.7E+02                 | EPI      | 2.3E+00                    | PHYSPROP     | 6.3E-01               | PHYSPROP               | 4.0E-02          | 6.2E-01 | 1.5E+00 | 9.0E-03 | EPI |
|  |         | 99-99-0    | 146.04           | 146.04  | 2.36                      | 0.4                          | PHYSPROP                   | 1.6E+02 | EPI           | 5.2E+01 | PHYSPROP | 1.1E+00     | CRC89                        | 5.7E-02                               | 8.4E-06                                 | WATER                                  | 3.6E+02                | EPI                 | 2.4E+00             | PHYSPROP                       | 4.4E+02                 | PHYSPROP | 4.5E-02                    | PHYSPROP     | 4.0E-02               | 6.2E-01                | 1.5E+00          | 1.0E-02 | EPI     |         |     |
| Nitrotoluene, p-                                     |         | 111-84-2   | 138.16           | 138.16  | 1.36                      | 0.4                          | PHYSPROP                   | 1.2E+00 | EPI           | 1.0E+01 | PHYSPROP | 1.2E+00     | CRC89                        | 5.9E-02                               | 8.7E-06                                 | WATER                                  | 9.2E+02                | EPI                 | 2.3E+00             | PHYSPROP                       | 3.7E+02                 | EPI      | 2.3E+00                    | PHYSPROP     | 6.3E-01               | PHYSPROP               | 4.0E-02          | 6.2E-01 | 1.5E+00 | 9.0E-03 | EPI |
|  |         | 99-99-0    | 146.04           | 146.04  | 2.36                      | 0.4                          | PHYSPROP                   | 1.6E+02 | EPI           | 5.2E+01 | PHYSPROP | 1.1E+00     | CRC89                        | 5.7E-02                               | 8.4E-06                                 | WATER                                  | 3.6E+02                | EPI                 | 2.4E+00             | PHYSPROP                       | 4.4E+02                 | PHYSPROP | 4.5E-02                    | PHYSPROP     | 4.0E-02               | 6.2E-01                | 1.5E+00          | 1.0E-02 | EPI     |         |     |
| Nonane, n-   |         | 111-84-2   | 138.16           | 138.16  | 1.36                      | 0.4                          | PHYSPROP                   | 1.2E+00 | EPI           | 1.0E+01 | PHYSPROP | 1.2E+00     | CRC89                        | 5.9E-02                               | 8.7E-06                                 | WATER                                  | 9.2E+02                | EPI                 | 2.3E+00             | PHYSPROP                       | 3.7E+02                 | EPI      | 2.3E+00                    | PHYSPROP     | 6.3E-01               | PHYSPROP               | 4.0E-02          | 6.2E-01 | 1.5E+00 | 9.0E-03 | EPI |
|  |         | 99-99-0    | 146.04           | 146.04  | 2.36                      | 0.4                          | PHYSPROP                   | 1.6E+02 | EPI           | 5.2E+01 | PHYSPROP | 1.1E+00     | CRC89                        | 5.7E-02                               | 8.4E-06                                 | WATER                                  | 3.6E+02                | EPI                 | 2.4E+00             | PHYSPROP                       | 4.4E+02                 | PHYSPROP | 4.5E-02                    | PHYSPROP     | 4.0E-02               | 6.2E-01                | 1.5E+00          | 1.0E-02 | EPI     |         |     |
| Norflurazone   |         | 27314-13-2 | 308.02           | 308.02  | 1.4E                      | 0.4                          | PHYSPROP                   | 2.9E-08 | PHYSPROP      | 1.8E+02 | PHYSPROP | 1.2E+00     | CRC89                        | 4.2E-02                               | 4.9E-06                                 | WATER                                  | 3.1E+03                | EPI                 | 2.3E+00             | PHYSPROP                       | 3.4E+01                 | EPI      | 2.3E+00                    | PHYSPROP     | 3.4E+01               | PHYSPROP               | 7.0E-03          | 5.3E+00 | 1.3E+01 | 1.1E-03 | EPI |
|  |         | 27314-13-2 | 308.02           | 308.02  | 1.4E                      | 0.4                          | PHYSPROP                   | 2.9E-08 | PHYSPROP      | 1.8E+02 | PHYSPROP | 1.2E+00     | CRC89                        | 4.2E-02                               | 4.9E-06                                 | WATER                                  | 3.1E+03                | EPI                 | 2.3E+00             | PHYSPROP                       | 3.4E+01                 | EPI      | 2.3E+00                    | PHYSPROP     | 3.4E+01               | PHYSPROP               | 7.0E-03          | 5.3E+00 | 1.3E+01 | 1.1E-03 | EPI |
| Octahydro-1,3,5,7-tetraazo-1,3,5,7-tetracyclic (HMX) |         | 2691-41-0  | 269.36           | 269.36  | 1.36                      | 0.6                          | PHYSPROP                   | 2.9E-02 | PHYSPROP      | 3.3E-14 | PHYSPROP | 3.0E+02     | CRC89                        | 4.3E-02                               | 5.0E-06                                 | WATER                                  | 5.3E+02                | EPI                 | 1.6E-01             | PHYSPROP                       | 5.0E+00                 | PHYSPROP | 3.0E-01                    | PHYSPROP     | 3.0E-01               | PHYSPROP               | 2.9E-04          | 4.8E+00 | 1.1E+01 | 4.4E-05 | EPI |
|  |         | 2691-41-0  | 269.36           | 269.36  | 1.36                      | 0.6                          | PHYSPROP                   | 2.9E-02 | PHYSPROP      | 3.3E-14 | PHYSPROP | 3.0E+02     | CRC89                        | 4.3E-02                               | 5.0E-06                                 | WATER                                  | 5.3E+02                | EPI                 | 1.6E-01             | PHYSPROP                       | 5.0E+00                 | PHYSPROP | 3.0E-01                    | PHYSPROP     | 3.0E-01               | PHYSPROP               | 2.9E-04          | 4.8E+00 | 1.1E+01 | 4.4E-05 | EPI |
| Octamethylpyrophosphoramide                          |         | 152-16-9   | 296.02           | 296.02  | 1.5E                      | 0.8                          | PHYSPROP                   | 1.0E-03 | PHYSPROP      | 1.7E+01 | PHYSPROP | 1.1E+00     | CRC89                        | 2.2E-02                               | 5.4E-06                                 | WATER                                  | 2.0E+01                | EPI                 | 1.0E+00             | PHYSPROP                       | 1.0E+06                 | PHYSPROP | 5.4E-05                    | PHYSPROP     | 5.4E-05               | PHYSPROP               | 4.2E+00          | 1.0E+01 | 8.3E-06 | EPI     |     |
|  |         | 152-16-9   | 296.02           | 296.02  | 1.5E                      | 0.8                          | PHYSPROP                   | 1.0E-03 | PHYSPROP      | 1.7E+01 | PHYSPROP | 1.1E+00     | CRC89                        | 2.2E-02                               | 5.4E-06                                 | WATER                                  | 2.0E+01                | EPI                 | 1.0E+00             | PHYSPROP                       | 1.0E+06                 | PHYSPROP | 5.4E-05                    | PHYSPROP     | 5.4E-05               | PHYSPROP               | 4.2E+00          | 1.0E+01 | 8.3E-06 | EPI     |     |
| Oxazalin   |         | 19044-88-3 | 356.02           | 356.02  | 7.8E                      | 0.9                          | PHYSPROP                   | 9.8E-09 | PHYSPROP      | 1.4E+02 | PHYSPROP | 1.4E+00     | CRC89                        | 3.9E-02                               | 4.5E-06                                 | WATER                                  | 8.3E+02                | EPI                 | 3.7E+00             | PHYSPROP                       | 2.5E+00                 | PHYSPROP | 3.8E-02                    | PHYSPROP     | 3.8E-02               | PHYSPROP               | 9.2E-01          | 2.0E+01 | 5.4E-03 | EPI     |     |
|  |         | 19044-88-3 | 356.02           | 356.02  | 7.8E                      | 0.9                          | PHYSPROP                   | 9.8E-09 | PHYSPROP      | 1.4E+02 | PHYSPROP | 1.4E+00     | CRC89                        | 3.9E-02                               | 4.5E-06                                 | WATER                                  | 8.3E+02                | EPI                 | 3.7E+00             | PHYSPROP                       | 2.5E+00                 | PHYSPROP | 3.8E-02                    | PHYSPROP     | 3.8E-02               | PHYSPROP               | 9.2E-01          | 2.0E+01 | 5.4E-03 | EPI     |     |
| Oxadiazon  |         | 19666-30-9 | 356.02           | 356.02  | 3.0E                      | 0.6                          | PHYSPROP                   | 3.0E-06 | PHYSPROP      | 1.1E+07 | PHYSPROP | 1.1E+00     | CRC89                        | 3.9E-02                               | 4.5E-06                                 | WATER                                  | 5.0E+03                | EPI                 | 4.8E+00             | PHYSPROP                       | 7.0E-01                 | PHYSPROP | 2.0E-01                    | PHYSPROP     | 2.0E-01               | PHYSPROP               | 9.0E+00          | 2.2E+01 | 2.8E-02 | EPI     |     |
|  |         | 19666-30-9 | 356.02           | 356.02  | 3.0E                      | 0.6                          | PHYSPROP                   | 3.0E-06 | PHYSPROP      | 1.1E+07 | PHYSPROP | 1.1E+00     | CRC89                        | 3.9E-02                               | 4.5E-06                                 | WATER                                  | 5.0E+03                | EPI                 | 4.8E+00             | PHYSPROP                       | 7.0E-01                 | PHYSPROP | 2.0E-01                    | PHYSPROP     | 2.0E-01               | PHYSPROP               | 9.0E+00          | 2.2E+01 | 2.8E-02 | EPI     |     |
| Oxamyl   |         | 23135-22-0 | 226.02           | 226.02  | 9.7E                      | 0.4                          | PHYSPROP                   | 2.3E-04 | PHYSPROP      | 9.0E+02 | PHYSPROP | 9.7E-01     | CRC89                        | 2.3E-02                               | 5.9E-06                                 | WATER                                  | 1.0E+01                | EPI                 | 4.7E-01             | PHYSPROP                       | 2.6E+04                 | PHYSPROP | 2.6E-04                    | PHYSPROP     | 2.6E-04               | PHYSPROP               | 1.8E+00          | 4.3E+00 | 4.5E-05 | EPI     |     |
|  |         | 23135-22-0 | 226.02           | 226.02  | 9.7E                      | 0.4                          | PHYSPROP                   | 2.3E-04 | PHYSPROP      | 9.0E+02 | PHYSPROP | 9.7E-01     | CRC89                        | 2.3E-02                               | 5.9E-06                                 | WATER                                  | 1.0E+01                | EPI                 | 4.7E-01             | PHYSPROP                       | 2.6E+04                 | PHYSPROP | 2.6E-04                    | PHYSPROP     | 2.6E-04               | PHYSPROP               | 1.8E+00          | 4.3E+00 | 4.5E-05 | EPI     |     |
| Oxyflufen  |         | 40871-42-1 | 416.02           | 416.02  | 3.4E                      | 0.5                          | PHYSPROP                   | 3.4E-05 | PHYSPROP      | 6.1E+02 | PHYSPROP | 1.3E+00     | CRC89                        | 2.3E-02                               | 5.9E-06                                 | WATER                                  | 2.4E+03                | EPI                 | 3.8E+00             | PHYSPROP                       | 1.0E+02                 | PHYSPROP | 1.0E+02                    | PHYSPROP     | 1.0E+02               | PHYSPROP               | 8.4E-02          | 4.5E+00 | 1.1E+01 | 1.3E-02 | EPI |
|  |         | 40871-42-1 | 416.02           | 416.02  | 3.4E                      | 0.5                          | PHYSPROP                   | 3.4E-05 | PHYSPROP      | 6.1E+02 | PHYSPROP | 1.3E+00     | CRC89                        | 2.3E-02                               | 5.9E-06                                 | WATER                                  | 2.4E+03                | EPI                 | 3.8E+00             | PHYSPROP                       | 1.0E+02                 | PHYSPROP | 1.0E+02                    | PHYSPROP     | 1.0E+02               | PHYSPROP               | 8.4E-02          | 4.5E+00 | 1.1E+01 | 1.3E-02 | EPI |
| Paclobutrazol  |         | 76738-62-0 | 296.02           | 296.02  | 3.4E                      | 0.9                          | PHYSPROP                   | 3.4E-09 | PHYSPROP      | 7.5E-09 | PHYSPROP | 1.2E+00     | CRC89                        | 2.2E-02                               | 5.7E-06                                 | WATER                                  | 9.2E+02                | EPI                 | 3.2E+00             | PHYSPROP                       | 2.6E+01                 | PHYSPROP | 3.1E-02                    | PHYSPROP     | 3.1E-02               | PHYSPROP               | 4.6E+00          | 1.1E+01 | 4.7E-03 | EPI     |     |
|  |         | 76738-62-0 | 296.02           | 296.02  | 3.4E                      | 0.9                          | PHYSPROP                   | 3.4E-09 | PHYSPROP      | 7.5E-09 | PHYSPROP | 1.2E+00     | CRC89                        | 2.2E-02                               | 5.7E-06                                 | WATER                                  | 9.2E+02                | EPI                 | 3.2E+00             | PHYSPROP                       | 2.6E+01                 | PHYSPROP | 3.1E-02                    | PHYSPROP     | 3.1E-02               | PHYSPROP               | 4.6E+00          | 1.1E+01 | 4.7E-03 | EPI     |     |
| Paraquat Dichloride                                  |         | 1910-42-5  | 266.02           | 266.02  | 1.3E                      | 1.1                          | PHYSPROP                   | 1.3E-11 | PHYSPROP      | 7.5E-08 | PHYSPROP | 3.0E+02     | EPI                          | 4.7E-02                               | 5.5E-06                                 | WATER                                  | 6.8E+03                | EPI                 | 4.5E+00             | PHYSPROP                       | 6.2E+05                 | PHYSPROP | 3.6E-07                    | PHYSPROP     | 3.6E-07               | PHYSPROP               | 2.9E+00          | 7.0E+00 | 5.8E-08 | EPI     |     |
|  |         | 1910-42-5  | 266.02           | 266.02  | 1.3E                      | 1.1                          | PHYSPROP                   | 1.3E-11 | PHYSPROP      | 7.5E-08 | PHYSPROP | 3.0E+02     | EPI                          | 4.7E-02                               | 5.5E-06                                 | WATER                                  | 6.8E+03                | EPI                 | 4.5E+00             | PHYSPROP                       | 6.2E+05                 | PHYSPROP | 3.6E-07                    | PHYSPROP     | 3.6E-07               | PHYSPROP               | 2.9E+00          | 7.0E+00 | 5.8E-08 | EPI     |     |
| Parathion  |         | 56-38-2    | 296.02           | 296.02  | 1.2E                      | 0.5                          | PHYSPROP                   | 1.2E-05 | PHYSPROP      | 6.7E-06 | PHYSPROP | 1.3E+00     | CRC89                        | 2.3E-02                               | 5.8E-06                                 | WATER                                  | 2.4E+03                | EPI                 | 3.8E+00             | PHYSPROP                       | 1.1E+01                 | PHYSPROP | 1.1E+01                    | PHYSPROP     | 1.1E+01               | PHYSPROP               | 8.4E-02          | 4.5E+00 | 1.1E+01 | 1.3E-02 | EPI |
|  |         | 56-38-2    | 296.02           | 296.02  | 1.2E                      | 0.5                          | PHYSPROP                   | 1.2E-05 | PHYSPROP      | 6.7E-06 | PHYSPROP | 1.3E+00     | CRC89                        | 2.3E-02                               | 5.8E-06                                 | WATER                                  | 2.4E+03                | EPI                 | 3.8E+00             | PHYSPROP                       | 1.1E+01                 | PHYSPROP | 1.1E+01                    | PHYSPROP     | 1.1E+01               | PHYSPROP               | 8.4E-02          | 4.5E+00 | 1.1E+01 | 1.3E-02 | EPI |
| Pebulate   |         | 1114-71-2  | 206.02           | 206.02  | 9.7E                      | 0.3                          | PHYSPROP                   | 9.7E-03 | PHYSPROP      | 8.9E-02 | PHYSPROP | 7.1E+01     | EPI                          | 9.5E-01                               | PHYSPROP                                | 2.4E+02                                | PHYSPROP               | 3.0E+02             | PHYSPROP            | 3.0E+02                        | PHYSPROP                | 1.0E+02  | PHYSPROP                   | 1.0E+02      | PHYSPROP              | 2.2E-01                | 1.4E+00          | 3.5E+00 | 4.0E-02 | EPI     |     |
|  |         | 1114-71-2  | 206.02           | 206.02  | 9.7E                      | 0.3                          | PHYSPROP                   | 9.7E-03 | PHYSPROP      | 8.9E-02 | PHYSPROP | 7.1E+01     | EPI                          | 9.5E-01                               | PHYSPROP                                | 2.4E+02                                | PHYSPROP               | 3.0E+02             | PHYSPROP            | 3.0E+02                        | PHYSPROP                | 1.0E+02  | PHYSPROP                   | 1.0E+02      | PHYSPROP              | 2.2E-01                | 1.4E+00          | 3.5E+00 | 4.0E-02 | EPI     |     |
| Pentachloroethane                                    |         | 40847-42-1 | 286.02           | 286.02  | 3.5E                      | 0.5                          | PHYSPROP                   | 3.5E-05 | PHYSPROP      | 1.5E-05 | PHYSPROP | 5.6E+01     | PHYSPROP                     | 1.2E+00                               | CRC89                                   | 2.3E-02                                | 5.7E-06                | WATER               | 5.6E+03             | EPI                            | 5.2E+00                 | PHYSPROP | 7.4E-01                    | PHYSPROP     | 7.4E-01               | PHYSPROP               | 4.0E+00          | 1.5E+01 | 1.2E-01 | EPI     |     |
|  |         | 40847-42-1 | 286.02           | 286.02  | 3.5E                      | 0.5                          | PHYSPROP                   | 3.5E-05 | PHYSPROP      | 1.5E-05 | PHYSPROP | 5.6E+01     | PHYSPROP                     | 1.2E+00                               | CRC89                                   | 2.3E-02                                | 5.7E-06                | WATER               | 5.6E+03             | EPI                            | 5.2E+00                 | PHYSPROP | 7.4E-01                    | PHYSPROP     | 7.4E-01               | PHYSPROP               | 4.0E+00          | 1.5E+01 | 1.2E-01 | EPI     |     |
| Pentabromodiphenyl Ether                             |         | 32534-81-9 | 566.02           | 566.02  | 4.4E                      | 0.3                          | PHYSPROP                   | 4.4E-03 | PHYSPROP      | 3.1E-08 | PHYSPROP | 5.0E+00     | EPI                          | 2.8E-02                               | 3.2E-06                                 | WATER                                  | 2.2E+04                | EPI                 | 6.8E+00             | PHYSPROP                       | 2.4E-03                 | PHYSPROP | 3.4E-01                    | PHYSPROP     | 3.4E-01               | PHYSPROP               | 1.5E+02          | 3.7E+02 | 3.7E-02 | EPI     |     |
|  |         | 32534-81-9 | 566.02           | 566.02  | 4.4E                      | 0.3                          | PHYSPROP                   | 4.4E-03 | PHYSPROP      | 3.1E-08 | PHYSPROP | 5.0E+00     | EPI                          | 2.8E-02                               | 3.2E-06                                 | WATER                                  | 2.2E+04                | EPI                 | 6.8E+00             | PHYSPROP                       | 2.4E-03                 | PHYSPROP | 3.4E-01                    | PHYSPROP     | 3.4E-01               | PHYSPROP               | 1.5E+02          | 3.7E+02 | 3.7E-02 | EPI     |     |
| Pentabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-99)   |         | 60348-60-9 | 566.02           | 566.02  | 4.4E                      | 0.3                          | PHYSPROP                   | 4.4E-05 | PHYSPROP      | 3.1E-08 | PHYSPROP | 5.0E+00     | EPI                          | 2.8E-02                               | 3.2E-06                                 | WATER                                  | 2.2E+04                | EPI                 | 6.8E+00             | PHYSPROP                       | 2.4E-03                 | PHYSPROP | 3.4E-01                    | PHYSPROP     | 3.4E-01               | PHYSPROP               | 1.5E+02          | 3.7E+02 | 3.7E-02 | EPI     |     |
|  |         | 60348-60-9 | 566.02           | 566.02  | 4.4E                      | 0.3                          | PHYSPROP                   | 4.4E-05 | PHYSPROP      | 3.1E-08 | PHYSPROP | 5.0E+00     | EPI                          | 2.8E-02                               | 3.2E-06                                 | WATER                                  | 2.2E+04                | EPI                 | 6.8E+00             | PHYSPROP                       | 2.4E-03                 | PHYSPROP | 3.4E-01                    | PHYSPROP     | 3.4E-01               | PHYSPROP               | 1.5E+02          | 3.7E+02 | 3.7E-02 | EPI     |     |
| Pentachlorobenzene                                   |         | 608-93-5   | 256.02           | 256.02  | 2.9E                      | 0.2                          | PHYSPROP                   | 2.9E    |               |         |          |             |                              |                                       |   |  |                        |                     |                     |                                |                         |          |                            |              |                       |                        |                  |         |         |         |     |

Regional Removal Management Level (RML) Chemical-Specific Parameters Supporting Table May 2016

| Contaminant                                      | Analyte  | CAS No.    | Molecular Weight |          | Volatility Parameters     |                              |                            |          | Melting Point |          | Density  |                              | Diffusivity in Air and Water |                        |                     |                                       | Partition Coefficients                  |                            |                         |          | Water Solubility |              | Tapwater Dermal Parameters |                       |                        |         |         |     |
|--|--|------------|------------------|----------|---------------------------|------------------------------|----------------------------|----------|---------------|----------|----------|------------------------------|------------------------------|------------------------|---------------------|---------------------------------------|---|----------------------------|-------------------------|----------|------------------|--------------|----------------------------|-----------------------|------------------------|---------|---------|-----|
|  |  |            | MMW              | MMW Ref  | H <sup>+</sup> (unitless) | HLC (atm <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP       | VP Ref        | MP       | MP Ref   | Density (g/cm <sup>3</sup> ) | Density Ref                  | K <sub>ow</sub> (L/Kg) | K <sub>ow</sub> Ref | D <sub>air</sub> (cm <sup>2</sup> /s) | D <sub>water</sub> (cm <sup>2</sup> /s) | K <sub>oc</sub> (unitless) | log K <sub>oc</sub> Ref | S (mg/L) | S Ref            | B (unitless) | T <sub>1/2</sub> (hr)      | T <sub>1/2</sub> (hr) | R <sub>p</sub> (cm/hr) | K Ref   |         |     |
| *Aroclor 1260                                    | *Aroclor 1260                                    | 11095-82-5 | 1.65E+02         | PHYSPROP | 1.42E+02                  | 3.4E+04                      | PHYSPROP                   | 1.65E+02 | EPI           | 1.65E+02 | EPI      | 1.65E+00                     | ATSDR Profile                | 2.2E+02                | 6.1E+06             | WATER                                 | 1.3E+05                                 | EPI                        | 7.0E+00                 | PHYSPROP | 1.4E+02          | PHYSPROP     | 1.7E+02                    | 1.7E+01               | 9.9E+01                | 9.9E+01 | EPI     |     |
|  |  |            | 2.95E+02         | PHYSPROP | 5.1E+03                   | 1.3E+04                      | PHYSPROP                   | 8.5E+06  | PHYSPROP      | 1.2E+02  | EPI      | 1.6E+00                      | LookChem                     | 2.6E+02                | 6.8E+06             | WATER                                 | 8.1E+04                                 | EPI                        | 6.3E+00                 | PHYSPROP | 5.3E+02          | PHYSPROP     | 3.8E+01                    | 4.5E+02               | 2.0E+01                | 5.8E+01 | EPI     |     |
| *Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189) | *Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189) | 39635-31-9 | 1.65E+02         | PHYSPROP | 2.1E+03                   | 5.1E+05                      | PHYSPROP                   | 1.3E+07  | PHYSPROP      | 1.6E+02  | EPI      | 1.7E+00                      | LookChem                     | 2.6E+02                | 5.7E+06             | WATER                                 | 3.5E+05                                 | EPI                        | 8.3E+00                 | PHYSPROP | 7.5E+02          | PHYSPROP     | 2.3E+01                    | 1.7E+01               | 8.0E+01                | 3.0E+00 | EPI     |     |
|  |  |            | 3.6E+02          | PHYSPROP | 2.8E+03                   | 6.9E+05                      | PHYSPROP                   | 5.8E+07  | PHYSPROP      | 1.5E+02  | EPI      | 1.6E+00                      | LookChem                     | 4.4E+02                | 5.9E+06             | WATER                                 | 2.1E+05                                 | EPI                        | 7.5E+00                 | PHYSPROP | 2.2E+03          | PHYSPROP     | 1.0E+01                    | 1.1E+01               | 5.0E+01                | 1.4E+00 | EPI     |     |
| *Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 167)  | *Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 167)  | 52663-72-6 | 3.6E+02          | PHYSPROP | 6.8E+03                   | 1.6E+04                      | PHYSPROP                   | 5.8E+07  | EPI           | 1.5E+02  | EPI      | 1.6E+00                      | LookChem                     | 4.4E+02                | 5.9E+06             | WATER                                 | 2.1E+05                                 | EPI                        | 7.5E+00                 | PHYSPROP | 1.6E+03          | PHYSPROP     | 1.2E+01                    | 1.1E+01               | 5.0E+01                | 1.7E+00 | EPI     |     |
|  |  |            | 6.9782-90-7      | 3.6E+02  | PHYSPROP                  | 6.8E+03                      | 1.6E+04                    | PHYSPROP | 5.8E+07       | EPI      | 1.5E+02  | EPI                          | 1.6E+00                      | LookChem               | 4.4E+02             | 5.9E+06                               | WATER                                   | 2.1E+05                    | EPI                     | 7.5E+00  | PHYSPROP         | 5.3E+03      | PHYSPROP                   | 7.7E+01               | 7.7E+01                | 5.0E+01 | 1.1E+00 | EPI |
| *Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 156)  | *Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 156)  | 1336-36-3  | 2.9E+02          | PHYSPROP | 1.7E+02                   | 4.2E+04                      | PHYSPROP                   | 1.9E+04  | PHYSPROP      | 1.2E+02  | EPI      | 1.4E+00                      | HSDB                         | 2.4E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 7.1E+00                 | PHYSPROP | 7.0E+01          | PHYSPROP     | 3.6E+00                    | 4.5E+00               | 1.9E+01                | 5.5E+01 | EPI     |     |
|  |  |            | 3.6E+02          | PHYSPROP | 2.8E+03                   | 6.9E+05                      | PHYSPROP                   | 5.8E+07  | PHYSPROP      | 1.5E+02  | EPI      | 1.6E+00                      | LookChem                     | 4.4E+02                | 5.9E+06             | WATER                                 | 2.1E+05                                 | EPI                        | 7.4E+00                 | PHYSPROP | 5.1E+04          | PHYSPROP     | 9.1E+00                    | 1.1E+01               | 5.0E+01                | 1.2E+00 | EPI     |     |
| *Pentachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 123) | *Pentachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 123) | 32774-16-6 | 3.3E+02          | EPI      | 7.8E+03                   | 1.9E+04                      | EPI                        | 5.5E+06  | EPI           | 9.8E+01  | EPI      | 1.5E+00                      | LookChem                     | 4.7E+02                | 6.1E+06             | WATER                                 | 1.3E+05                                 | EPI                        | 7.0E+00                 | EPI      | 1.6E+02          | EPI          | 6.9E+00                    | 1.1E+01               | 3.2E+01                | 1.0E+00 | EPI     |     |
|  |  |            | 65510-44-3       | 3.3E+02  | EPI                       | 7.8E+03                      | 1.9E+04                    | EPI      | 5.5E+06       | EPI      | 9.8E+01  | EPI                          | 1.5E+00                      | LookChem               | 4.7E+02             | 6.1E+06                               | WATER                                   | 1.3E+05                    | EPI                     | 7.0E+00  | EPI              | 1.6E+02      | EPI                        | 6.9E+00               | 1.1E+01                | 3.2E+01 | 1.0E+00 | EPI |
| *Pentachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 118) | *Pentachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 118) | 31508-00-6 | 3.3E+02          | PHYSPROP | 1.2E+02                   | 2.9E+04                      | EPI                        | 9.0E+06  | PHYSPROP      | 1.3E+02  | EPI      | 1.5E+00                      | LookChem                     | 4.7E+02                | 6.1E+06             | WATER                                 | 1.3E+05                                 | EPI                        | 7.1E+00                 | PHYSPROP | 1.3E+03          | PHYSPROP     | 8.6E+00                    | 7.1E+00               | 3.2E+01                | 1.2E+00 | EPI     |     |
|  |  |            | 32599-14-4       | 3.3E+02  | PHYSPROP                  | 1.2E+02                      | 2.9E+04                    | EPI      | 9.0E+06       | PHYSPROP | 1.3E+02  | EPI                          | 1.5E+00                      | LookChem               | 4.7E+02             | 6.1E+06                               | WATER                                   | 1.3E+05                    | EPI                     | 7.1E+00  | PHYSPROP         | 1.3E+03      | PHYSPROP                   | 8.6E+00               | 7.1E+00                | 3.2E+01 | 1.2E+00 | EPI |
| *Pentachlorobiphenyl, 3,3',4,4',5,5'-(PCB 105)   | *Pentachlorobiphenyl, 3,3',4,4',5,5'-(PCB 105)   | 714477-0-0 | 3.3E+02          | PHYSPROP | 3.8E+03                   | 9.2E+05                      | PHYSPROP                   | 5.5E+06  | PHYSPROP      | 9.8E+01  | EPI      | 1.5E+00                      | LookChem                     | 4.7E+02                | 6.1E+06             | WATER                                 | 1.3E+05                                 | EPI                        | 7.0E+00                 | PHYSPROP | 1.6E+02          | PHYSPROP     | 1.6E+02                    | 7.1E+00               | 3.2E+01                | 1.0E+00 | EPI     |     |
|  |  |            | 57465-28-8       | 3.3E+02  | EPI                       | 7.8E+03                      | 1.9E+04                    | EPI      | 2.2E+06       | EPI      | 1.3E+02  | EPI                          | 1.5E+00                      | LookChem               | 4.7E+02             | 6.1E+06                               | WATER                                   | 1.3E+05                    | EPI                     | 7.0E+00  | EPI              | 7.0E+01      | PHYSPROP                   | 6.9E+00               | 7.1E+00                | 3.2E+01 | 1.0E+00 | EPI |
| *Polychlorinated Biphenyls (high risk)           | *Polychlorinated Biphenyls (high risk)           | 1336-36-3  | 2.9E+02          | PHYSPROP | 1.7E+02                   | 4.2E+04                      | PHYSPROP                   | 4.9E+04  | PHYSPROP      | 1.2E+02  | EPI      | 1.4E+00                      | HSDB                         | 2.4E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 7.1E+00                 | PHYSPROP | 7.0E+01          | PHYSPROP     | 3.6E+00                    | 4.5E+00               | 1.9E+01                | 5.5E+01 | EPI     |     |
|  |  |            | 2.9E+02          | PHYSPROP | 1.7E+02                   | 4.2E+04                      | PHYSPROP                   | 4.9E+04  | PHYSPROP      | 1.2E+02  | EPI      | 1.4E+00                      | HSDB                         | 2.4E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 7.1E+00                 | PHYSPROP | 7.0E+01          | PHYSPROP     | 3.6E+00                    | 4.5E+00               | 1.9E+01                | 5.5E+01 | EPI     |     |
| *Polychlorinated Biphenyls (low risk)            | *Polychlorinated Biphenyls (low risk)            | 1336-36-3  | 2.9E+02          | PHYSPROP | 1.7E+02                   | 4.2E+04                      | PHYSPROP                   | 4.9E+04  | PHYSPROP      | 1.2E+02  | EPI      | 1.4E+00                      | HSDB                         | 2.4E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 7.1E+00                 | PHYSPROP | 7.0E+01          | PHYSPROP     | 3.6E+00                    | 4.5E+00               | 1.9E+01                | 5.5E+01 | EPI     |     |
|  |  |            | 2.9E+02          | PHYSPROP | 1.7E+02                   | 4.2E+04                      | PHYSPROP                   | 4.9E+04  | PHYSPROP      | 1.2E+02  | EPI      | 1.4E+00                      | HSDB                         | 2.4E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 7.1E+00                 | PHYSPROP | 7.0E+01          | PHYSPROP     | 3.6E+00                    | 4.5E+00               | 1.9E+01                | 5.5E+01 | EPI     |     |
| *Tetrachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 77)  | *Tetrachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 77)  | 32589-13-3 | 2.9E+02          | PHYSPROP | 3.8E+04                   | 9.4E+05                      | PHYSPROP                   | 1.6E+05  | PHYSPROP      | 1.8E+02  | CR89     | 1.6E+00                      | LookChem                     | 2.4E+02                | 5.0E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 6.6E+00                 | PHYSPROP | 5.7E+01          | PHYSPROP     | 6.0E+00                    | 4.5E+00               | 2.0E+01                | 9.2E+01 | EPI     |     |
|  |  |            | 2.9E+02          | PHYSPROP | 3.8E+04                   | 9.4E+05                      | PHYSPROP                   | 1.6E+05  | PHYSPROP      | 1.8E+02  | CR89     | 1.6E+00                      | LookChem                     | 2.4E+02                | 5.0E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 6.6E+00                 | PHYSPROP | 5.7E+01          | PHYSPROP     | 6.0E+00                    | 4.5E+00               | 2.0E+01                | 9.2E+01 | EPI     |     |
| *Tetrachlorobiphenyl, 3,3',4,4',5,5'-(PCB 81)    | *Tetrachlorobiphenyl, 3,3',4,4',5,5'-(PCB 81)    | 70362-50-4 | 2.9E+02          | EPI      | 9.1E+03                   | 2.2E+04                      | EPI                        | 8.5E+06  | EPI           | 1.2E+02  | EPI      | 1.4E+00                      | LookChem                     | 4.9E+02                | 6.3E+06             | WATER                                 | 7.8E+04                                 | EPI                        | 6.3E+00                 | EPI      | 3.2E+02          | EPI          | 3.8E+00                    | 4.5E+00               | 2.0E+01                | 5.8E+01 | EPI     |     |
|  |  |            | 9016-87-9        | 2.9E+02  | EPI                       | 9.1E+03                      | 2.2E+04                    | EPI      | 8.5E+06       | EPI      | 1.2E+02  | EPI                          | 1.4E+00                      | LookChem               | 4.9E+02             | 6.3E+06                               | WATER                                   | 7.8E+04                    | EPI                     | 6.3E+00  | EPI              | 3.2E+02      | EPI                        | 3.8E+00               | 4.5E+00                | 2.0E+01 | 5.8E+01 | EPI |
| Polymeric Methylene Diphenyl Disocyanate (PMDI)  | Polymeric Methylene Diphenyl Disocyanate (PMDI)  | NA         | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
|  |  |            | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
| *Acenaphthene                                    | *Acenaphthene                                    | 83-32-9    | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
|  |  |            | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
| *Anthracene                                      | *Anthracene                                      | 100-36-7   | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
|  |  |            | 1.5E+02          | PHYSPROP | 7.5E+03                   | 1.8E+04                      | PHYSPROP                   | 2.2E+03  | PHYSPROP      | 9.3E+01  | PHYSPROP | 1.2E+00                      | CR89                         | 5.1E+02                | 8.3E+06             | WATER                                 | 3.9E+03                                 | EPI                        | 3.9E+00                 | PHYSPROP | 3.9E+00          | PHYSPROP     | 4.1E+01                    | 7.7E+01               | 1.8E+00                | 8.6E+02 | EPI     |     |
| *Benz[a]anthracene                               | *Benz[a]anthracene                               | 56-55-3    | 2.3E+02          | PHYSPROP | 4.9E+04                   | 1.2E+05                      | PHYSPROP                   | 2.1E+07  | PHYSPROP      | 8.4E+01  | PHYSPROP | 1.3E+00                      | PubChem                      | 2.6E+02                | 6.7E+06             | WATER                                 | 1.8E+05                                 | EPI                        | 5.8E+00                 | PHYSPROP | 9.4E+03          | PHYSPROP     | 3.2E+00                    | 2.0E+00               | 8.5E+00                | 5.5E+01 | EPI     |     |
|  |  |            | 2.5E+02          | PHYSPROP | 8.9E+06                   | 2.0E+07                      | PHYSPROP                   | 2.6E+08  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.4E+00                      | HSDB                         | 2.6E+02                | 5.6E+06             | WATER                                 | 2.0E+05                                 | EPI                        | 6.1E+00                 | PHYSPROP | 2.5E+03          | PHYSPROP     | 4.2E+00                    | 2.7E+00               | 1.6E+01                | 6.9E+01 | EPI     |     |
| *Benz[b]fluoranthene                             | *Benz[b]fluoranthene                             | 205-82-3   | 2.5E+02          | PHYSPROP | 1.9E+05                   | 4.6E+07                      | PHYSPROP                   | 5.5E+09  | EPI           | 1.8E+02  | PHYSPROP | 1.3E+00                      | PubChem                      | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E+05                                 | EPI                        | 6.1E+00                 | PHYSPROP | 1.6E+03          | PHYSPROP     | 4.4E+00                    | 2.7E+00               | 1.2E+01                | 7.1E+01 | EPI     |     |
|  |  |            | 2.5E+02          | PHYSPROP | 1.9E+05                   | 4.6E+07                      | PHYSPROP                   | 5.5E+09  | EPI           | 1.8E+02  | PHYSPROP | 1.3E+00                      | PubChem                      | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E+05                                 | EPI                        | 6.1E+00                 | PHYSPROP | 1.6E+03          | PHYSPROP     | 4.4E+00                    | 2.7E+00               | 1.2E+01                | 7.1E+01 | EPI     |     |
| *Benz[e]fluoranthene                             | *Benz[e]fluoranthene                             | 205-99-2   | 2.5E+02          | PHYSPROP | 2.7E+05                   | 6.6E+07                      | PHYSPROP                   | 5.0E+07  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.3E+00                      | CR89                         | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E+05                                 | EPI                        | 5.8E+00                 | PHYSPROP | 1.5E+03          | PHYSPROP     | 2.5E+00                    | 2.7E+00               | 1.1E+01                | 4.2E+01 | EPI     |     |
|  |  |            | 2.5E+02          | PHYSPROP | 2.7E+05                   | 6.6E+07                      | PHYSPROP                   | 5.0E+07  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.3E+00                      | CR89                         | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E+05                                 | EPI                        | 5.8E+00                 | PHYSPROP | 1.5E+03          | PHYSPROP     | 2.5E+00                    | 2.7E+00               | 1.1E+01                | 4.2E+01 | EPI     |     |
| *Benz[a]anthracene                               | *Benz[a]anthracene                               | 205-99-2   | 2.5E+02          | PHYSPROP | 2.7E+05                   | 6.6E+07                      | PHYSPROP                   | 5.0E+07  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.3E+00                      | CR89                         | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E+05                                 | EPI                        | 5.8E+00                 | PHYSPROP | 1.5E+03          | PHYSPROP     | 2.5E+00                    | 2.7E+00               | 1.1E+01                | 4.2E+01 | EPI     |     |
|  |  |            | 2.5E+02          | PHYSPROP | 2.7E+05                   | 6.6E+07                      | PHYSPROP                   | 5.0E+07  | PHYSPROP      | 1.7E+02  | PHYSPROP | 1.3E+00                      | CR89                         | 4.8E+02                | 5.6E+06             | WATER                                 | 6.0E                                    |                            |                         |          |                  |              |                            |                       |                        |         |         |     |







Regional Removal Management Level (RML) Chemical-specific Parameters Supporting Table May 2016

| Contaminant        |            | Molecular Weight |          | Volatility Parameters        |                                   |                            |         | Melting Point |         | Density  |                                 | Diffusivity in Air and Water |  |   | Partition Coefficients                   |                           |                     |                           |                     | Water Solubility                  |                         | Tapwater Dermal Parameters |       |                 |                                |                        |                           |         |         |     |
|--------------------|------------|------------------|----------|------------------------------|-----------------------------------|----------------------------|---------|---------------|---------|----------|---------------------------------|------------------------------|--|---|--|---------------------------|---------------------|---------------------------|---------------------|-----------------------------------|-------------------------|----------------------------|-------|-----------------|--------------------------------|------------------------|---------------------------|---------|---------|-----|
| Analyte            | CAS No.    | MW               | MW Ref   | H <sup>+</sup><br>(unitless) | HLC<br>(atm·m <sup>3</sup> /mole) | H <sup>+</sup> and HLC Ref | VP      | VP Ref        | MP      | MP Ref   | Density<br>(g/cm <sup>3</sup> ) | Density Ref                  | D <sub>air</sub><br>(cm <sup>2</sup> /s) | D <sub>iw</sub><br>(cm <sup>2</sup> /s) | D <sub>iw</sub> and D <sub>air</sub> Ref | K <sub>ow</sub><br>(L/kg) | K <sub>ow</sub> Ref | K <sub>oc</sub><br>(L/kg) | K <sub>oc</sub> Ref | log K <sub>ow</sub><br>(unitless) | log K <sub>ow</sub> Ref | S<br>(mg/L)                | S Ref | S<br>(unitless) | Q <sub>der</sub><br>(hr/event) | T <sup>a</sup><br>(hr) | K <sub>p</sub><br>(cm/hr) | K Ref   |         |     |
| Zinc Phosphide     | 1314-84-7  | 2.65+02          | CRC89    |                              |                                   |                            |         |               | 1.2E+03 | CRC89    | 4.5E+00                         | CRC89                        |  |   |  |                           |                     |                           |                     |                                   |                         |                            |       |                 | 3.7E-03                        | 2.9E+00                | 7.0E+00                   | 6.0E-04 | RAGSE   |     |
| Zinc and Compounds | 7440-66-6  | 6.5E+01          | PHYSPROP |                              |                                   |                            |         |               | 4.2E+02 | PHYSPROP | 7.1E+00                         | CRC89                        |  |   |  | 6.2E+01                   | SSL                 |                           |                     |                                   |                         |                            |       | 1.9E-03         | 2.4E-01                        | 5.9E-01                | 6.0E-04                   | RAGSE   |         |     |
| Zinc               | 12122-67-7 | 2.8E+02          | PHYSPROP | 1.1E-07                      | 2.7E-09                           | PHYSPROP                   | 7.5E-08 | PHYSPROP      | 1.6E+02 | EPI      |                                 |                              | 4.5E-02                                  | 5.2E-06                                 | WATER9                                   |                           |                     |                           |                     |                                   |                         |                            |       | 1.0E+01         | PHYSPROP                       | 2.1E-03                | 3.7E+00                   | 8.8E+00 | 3.3E-04 | EPI |
| Zinc               | 7440-67-7  | 9.1E+01          | EPI      |                              |                                   |                            | 0.0E+00 | NIOSH         | 1.9E+03 | CRC89    | 6.5E+00                         | CRC89                        |  |   |  | 3.0E+03                   | BAES                |                           |                     |                                   |                         |                            |       | 3.7E-03         | 3.4E-01                        | 8.2E-01                | 1.0E-03                   | RAGSE   |         |     |