

Table 1. Newcastle Landfill January 2006 Groundwater Monitoring Results

| Analyte                               | Units    | GWQS        | MCL         | MW-1<br>1/30/2006 | MW-2<br>1/30/2006 | MW-3<br>1/30/2006 | MW-5<br>1/30/2006 | MW-5D<br>1/30/2006 | SW-6<br>1/30/2006 | SW-7<br>1/30/2006 | Trip Blank<br>1/30/2006 |  |
|---------------------------------------|----------|-------------|-------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------------|--|
| <b>Field Parameters</b>               |          |             |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| pH                                    | s.u.     | 6.5-8.5 **  |             | 7.03              | 7.14              | 7.06              | 6.50              | --                 | 7.52              | 8.23              | --                      |  |
| Specific Conductivity                 | µmhos/cm |             | 700 **      | <b>912</b>        | 552               | <b>871</b>        | <b>740</b>        | --                 | <b>898</b>        | 137               | --                      |  |
| Temperature                           | C        |             |             | 9.92              | 10.65             | 10.42             | 13.42             | --                 | 11.75             | 8.04              | --                      |  |
| <b>Conventional Parameters</b>        |          |             |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| Ammonia-N                             | mg/L     |             |             | 0.076             | 0.350             | 0.385             | 0.040             | 0.055              | 0.108             | 0.042             | --                      |  |
| Chloride                              | mg/L     | 250 **      | 250 **      | 3.3               | 9.6               | 7.1               | 7.0               | 6.7                | 5.2               | 3.2               | --                      |  |
| COD                                   | mg/L     |             |             | 5.00 U            | 16.5              | 7.48              | 6.48              | 5.14               | 49.0              | 552               | --                      |  |
| Hardness                              | mg/L     |             |             | 520               | 220               | 140               | 360               | 360                | 280               | 47                | --                      |  |
| Nitrate-N                             | mg/L     | 10 *        | 10 *        | 0.010 U           | 0.014             | 0.012             | 1.00 U            | 1.00 U             | 0.596             | 2.26              | --                      |  |
| Nitrate-Nitrite                       | mg/L     |             |             | 0.010 U           | 0.014             | 0.012             | 1.00 U            | 1.00 U             | 0.596             | 2.28              | --                      |  |
| Nitrite-N                             | mg/L     |             | 1 *         | 0.010 U           | 0.010 U           | 0.010 U           | 1.00 U            | 0.010 U            | 0.010 U           | 0.021             | --                      |  |
| Sulfate                               | mg/L     | 250 **      | 250 **      | <b>269</b>        | 15.2              | 46.9              | 134               | 128                | 108               | 18.8              | --                      |  |
| TDS                                   | mg/L     | 500 **      | 500 **      | <b>710</b>        | 381               | <b>535</b>        | <b>506</b>        | 469                | <b>596</b>        | 106               | --                      |  |
| TOC                                   | mg/L     |             |             | 1.50 U            | 5.32              | 3.02              | 2.02              | 1.99               | 2.87              | 5.57              | --                      |  |
| <b>Dissolved Metals</b>               |          |             |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| Antimony                              | mg/L     |             | 0.006 *     | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U            | 0.002 U           | --                | --                      |  |
| Arsenic                               | mg/L     | 0.00005 *** | 0.01 *      | <b>0.002</b>      | <b>0.001</b>      | <b>0.004</b>      | <b>0.030</b>      | <b>0.031</b>       | <b>0.003</b>      | --                | --                      |  |
| Beryllium                             | mg/L     |             | 0.004 *     | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U            | 0.001 U           | --                | --                      |  |
| Cadmium                               | mg/L     | 0.01 *      | 0.005 *     | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U            | 0.002 U           | --                | --                      |  |
| Calcium                               | mg/L     |             |             | 138               | 55.8              | 29.4              | 82.9              | 83.4               | 55.9              | 11.8              | --                      |  |
| Chromium                              | mg/L     | 0.05 *      | 0.1 *       | 0.005 U           | 0.005 U           | 0.005 U           | 0.005 U           | 0.005 U            | 0.005 U           | --                | --                      |  |
| Copper                                | mg/L     | 1 **        | 1.3 ** TT   | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U            | 0.002 U           | --                | --                      |  |
| Iron                                  | mg/L     | 0.3 **      | 0.3 **      | <b>1.19</b>       | <b>0.33</b>       | <b>1.59</b>       | <b>4.56</b>       | <b>4.60</b>        | 0.20              | 0.07              | --                      |  |
| Lead                                  | mg/L     | 0.05 *      | 0.015 ** TT | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U            | 0.001 U           | --                | --                      |  |
| Magnesium                             | mg/L     |             |             | 42.1              | 18.7              | 16.0              | 37.5              | 37.5               | 32.8              | 4.23              | --                      |  |
| Manganese                             | mg/L     | 0.05 **     | 0.05 **     | <b>0.109</b>      | <b>0.110</b>      | <b>0.068</b>      | <b>0.560</b>      | <b>0.561</b>       | <b>0.283</b>      | 0.022             | --                      |  |
| Mercury                               | mg/L     | 0.002 *     | 0.002 *     | 0.0001 U          | 0.0001 U          | 0.0001 U          | 0.0001 U          | 0.0001 U           | 0.0001 U          | --                | --                      |  |
| Nickel                                | mg/L     |             | 0.1 *       | 0.01 U            | 0.01 U            | 0.01 U            | 0.02              | 0.02               | 0.01 U            | --                | --                      |  |
| Selenium                              | mg/L     | 0.01 *      | 0.05 *      | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U           | 0.002 U            | 0.002 U           | --                | --                      |  |
| Silver                                | mg/L     | 0.05 *      | 0.1 **      | 0.003 U           | 0.003 U           | 0.003 U           | 0.003 U           | 0.003 U            | 0.003 U           | --                | --                      |  |
| Thallium                              | mg/L     |             | 0.002 *     | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U           | 0.001 U            | 0.001 U           | --                | --                      |  |
| Zinc                                  | mg/L     | 5 **        | 5 **        | 0.006 U           | 0.041             | 0.006 U           | 0.006 U           | 0.006 U            | 0.006 U           | 0.006 U           | --                      |  |
| <b>Volatile Organics</b>              |          |             |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| 1,1,1-Trichloroethane                 | ug/L     | 200 *       | 200 *       | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,1,2,2-Tetrachloroethane             | ug/L     |             |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/L     |             |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,1,2-Trichloroethane                 | ug/L     |             | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,1-Dichloroethane                    | ug/L     | 1 ***       |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |

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| Analyte                              | Units | GWQS     | MCL         | MW-1<br>1/30/2006 | MW-2<br>1/30/2006 | MW-3<br>1/30/2006 | MW-5<br>1/30/2006 | MW-5D<br>1/30/2006 | SW-6<br>1/30/2006 | SW-7<br>1/30/2006 | Trip Blank<br>1/30/2006 |  |
|--------------------------------------|-------|----------|-------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------------|--|
| <b>Volatile Organics (continued)</b> |       |          |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| 1,1-Dichloroethylene                 | ug/L  |          | 7 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,2-Dichloroethane                   | ug/L  | 0.5 ***  | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 1,2-Dichloropropane                  | ug/L  | 0.6 ***  | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| 2-Butanone (Methyl Ethyl Ketone)     | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U              | 1.0 U             | --                | 1.0 U                   |  |
| 2-Chloroethyl Vinyl ether            | ug/L  |          |             | 0.5 U             | 0.5 U             | 0.5 U             | 0.5 U             | 0.5 U              | 0.5 U             | --                | 0.5 U                   |  |
| 2-Hexanone                           | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U              | 1.0 U             | --                | 1.0 U                   |  |
| 4-Methyl-2-pentanone                 | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U             | 1.0 U              | 1.0 U             | --                | 1.0 U                   |  |
| Acetone                              | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | <b>5.4</b>        | <b>5.4</b>         | <b>2.0</b>        | --                | 1.0 U                   |  |
| Benzene                              | ug/L  | 1 ***    | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Bromodichloromethane                 | ug/L  | 0.3 ***  | 100 * THM   | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Bromoform                            | ug/L  | 5 ***    | 100 * THM   | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Bromomethane                         | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Carbon disulfide                     | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Carbon tetrachloride                 | ug/L  | 0.3 ***  | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Chlorobenzene                        | ug/L  |          | 100 *       | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Chloroethane                         | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Chloroform                           | ug/L  | 7 ***    | 100 * THM   | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Chloromethane                        | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| cis-1,2-Dichloroethene               | ug/L  |          | 70 *        | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| cis-1,3-Dichloropropene              | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Dibromochloromethane                 | ug/L  |          | 100 * THM   | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Ethylbenzene                         | ug/L  |          | 700 *       | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| m,p-xylene                           | ug/L  |          | 10000 * XYL | 0.4 U             | 0.4 U             | 0.4 U             | 0.4 U             | 0.4 U              | 0.4 U             | --                | 0.4 U                   |  |
| Methylene chloride                   | ug/L  | 5 ***    | 5 *         | 0.3 U             | 0.3 U             | 0.3 U             | 0.3 U             | 0.3 U              | 0.3 U             | --                | 0.3 U                   |  |
| o-xylene                             | ug/L  |          | 10000 * XYL | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Styrene                              | ug/L  |          | 100 *       | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Tetrachloroethylene                  | ug/L  | 0.8 ***  | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Toluene                              | ug/L  |          | 1000 *      | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| trans-1,2-Dichloroethene             | ug/L  |          | 100 *       | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| trans-1,3-Dichloropropene            | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Trichloroethene                      | ug/L  | 3 ***    | 5 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Trichlorofluoromethane               | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Vinyl Acetate                        | ug/L  |          |             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| Vinyl Chloride                       | ug/L  | 0.02 *** | 2 *         | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U             | 0.2 U              | 0.2 U             | --                | 0.2 U                   |  |
| <b>Semi-Volatile Organics</b>        |       |          |             |                   |                   |                   |                   |                    |                   |                   |                         |  |
| 1,2,4-Trichlorobenzene               | ug/L  |          | 70 *        | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 1,2-Dichlorobenzene                  | ug/L  |          | 600 *       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 1,3-Dichlorobenzene                  | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 1,4-Dichlorobenzene                  | ug/L  | 4 ***    | 75 *        | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2,2'-oxybis(1-chloropropane)         | ug/L  |          |             | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |

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|---|-------|-------------|-------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------------|--|
| <b>Semi-Volatile Organics (continued)</b> |       |             |       |                   |                   |                   |                   |                    |                   |                   |                         |  |
| 2,4,5-Trichlorophenol                     | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2,4,6-Trichlorophenol                     | ug/L  | 4 ***       |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2,4-Dichlorophenol                        | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2,4-Dimethylphenol                        | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2,4-Dinitrophenol                         | ug/L  |             |       | 10 U              | 10 U              | 10 U              | 11 U              | 10 U               | 10 U              | --                | --                      |  |
| 2,4-Dinitrotoluene                        | ug/L  | 0.1 ***     |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2,6-Dinitrotoluene                        | ug/L  | 0.1 ***     |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2-Chloronaphthalene                       | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2-Chlorophenol                            | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2-Methyl-4,6-dinitrophenol                | ug/L  |             |       | 10 U              | 10 U              | 10 U              | 11 U              | 10 U               | 10 U              | --                | --                      |  |
| 2-Methylnaphthalene                       | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2-Methylphenol                            | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 2-Nitroaniline                            | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 2-Nitrophenol                             | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 3,3'-Dichlorobenzidine                    | ug/L  | 0.2 ***     |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 3-Nitroaniline                            | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 4-Bromophenyl phenyl ether                | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 4-Chloro-3-methylphenol                   | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 4-Chloroaniline                           | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 4-Chlorophenyl phenyl ether               | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 4-Methylphenol                            | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| 4-Nitroaniline                            | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| 4-Nitrophenol                             | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| Acenaphthene                              | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Acenaphthylene                            | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Anthracene                                | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzo(a)anthracene                        | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzo(a)pyrene                            | ug/L  | 0.008 ***   | 0.2 * | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzo(b)fluoranthene                      | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzo(g,h,i)perylene                      | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzo(k)fluoranthene                      | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Benzoic acid                              | ug/L  |             |       | 10 U              | 10 U              | 10 U              | 11 U              | 10 U               | 10 U              | --                | --                      |  |
| Benzyl alcohol                            | ug/L  |             |       | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |  |
| Bis(2-chloroethoxy)methane                | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Bis(2-chloroethyl)ether                   | ug/L  | 0.07 ***    |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Bis(2-ethylhexyl)phthalate                | ug/L  | 6 ***       | 6 *   | 1.0 U             | 3.5               | 1.0 U             | 1.1 U             | 1.0 U              | 3.4               | --                | --                      |  |
| Butyl benzyl phthalate                    | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Carbazole                                 | ug/L  | 5 ***       |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Chrysene                                  | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Dibenzo(a,h)anthracene                    | ug/L  | 0.01 ***PAH |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |
| Dibenzofuran                              | ug/L  |             |       | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |  |

**Table 1. Newcastle Landfill January 2006 Groundwater Monitoring Results**

| Analyte                                   | Units | GWQS        | MCL  | MW-1<br>1/30/2006 | MW-2<br>1/30/2006 | MW-3<br>1/30/2006 | MW-5<br>1/30/2006 | MW-5D<br>1/30/2006 | SW-6<br>1/30/2006 | SW-7<br>1/30/2006 | Trip Blank<br>1/30/2006 |
|---|-------|-------------|------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------------|
| <b>Semi-Volatile Organics (continued)</b> |       |             |      |                   |                   |                   |                   |                    |                   |                   |                         |
| Diethyl phthalate                         | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Dimethyl phthalate                        | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Di-n-Butylphthalate                       | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Di-n-octylphthalate                       | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Fluoranthene                              | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Fluorene                                  | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Hexachlorobenzene                         | ug/L  | 0.05 ***    | 1 *  | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Hexachlorobutadiene                       | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Hexachlorocyclopentadiene                 | ug/L  |             | 50 * | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |
| Hexachloroethane                          | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Indeno(1,2,3-cd)pyrene                    | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Isophorone                                | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Naphthalene                               | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Nitrobenzene                              | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| N-Nitroso-di-n-propylamine                | ug/L  | 0.01 ***    |      | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |
| N-Nitrosodiphenylamine                    | ug/L  | 17 ***      |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Pentachlorophenol                         | ug/L  |             | 1 *  | 5.0 U             | 5.0 U             | 5.2 U             | 5.4 U             | 5.3 U              | 5.3 U             | --                | --                      |
| Phenanthrene                              | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Phenol                                    | ug/L  |             |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |
| Pyrene                                    | ug/L  | 0.01 ***PAH |      | 1.0 U             | 1.0 U             | 1.0 U             | 1.1 U             | 1.0 U              | 1.0 U             | --                | --                      |

**Notes:** GWQS = Water Quality Standards for Ground Waters of the State of Washington (173-200 WAC)  
MCL = Maximum Contaminant Level, Washington State Drinking Water Regulations (Chapter 246-290 WAC)  
\* = Primary contaminant criteria  
\*\* = Secondary contaminant criteria  
\*\*\* = Carcinogenic contaminant criteria  
= Exceeds MCL or GWQS  
U = Compound undetected at the specified reporting limit  
-- = Not analyzed  
TT = EPA action levels  
THM = Primary MCL for the sum of all trihalomethanes  
XYL = Primary MCL for the sum of all xylenes  
PAH = Carcinogenic GWQS for the sum of all polycyclic aromatic hydrocarbons