

## Laboratory Results

**Sample Water Sample ID No.:** WW-03 (Revised)  
**Sample Date:** April 13, 2010  
**Sample Type:** Domestic drinking water

**Laboratory Analyses Performed:**

|                               |   |
|-------------------------------|---|
| Ammonia, Nitrogen and Nitrate | Pesticides and Herbicides                         |
| Pathogens                     | Trace Organics                                    |
| General Chemistry             | Veterinary Pharmaceuticals                        |
| Hormones                      | Wastewater Pharmaceuticals                        |
| Metals                        | Nitrogen Isotopes                                 |
| Perchlorate                   | Sulfur hexafluoride (SF <sub>6</sub> ) Age Dating |

| Chemical   | Result <sup>a</sup> | Units    | Laboratory Detection Limit | Drinking Water Standards    |                   |
|--|---------------------|----------|----------------------------|-----------------------------|-------------------|
|  |                     |          |                            | MCL <sup>b</sup>            | SMCL <sup>c</sup> |
| <b>Nitrogen Compounds</b>                                |                     |          |                            |                             |                   |
| Nitrate (NO <sub>3</sub> )                               | 33.1                | mg/L     | 0.05                       | 10                          |                   |
| Ammonia (NH <sub>3</sub> +NH <sub>4</sub> ) as N         | Not Detected        | mg/L     | 0.3                        |                             |                   |
| Nitrate+Nitrite (NO <sub>3</sub> +NO <sub>2</sub> ) as N | 35.5                | mg/L     | 2.5                        | 10                          |                   |
| Total Kjeldahl Nitrogen                                  | Not Detected        | mg/L     | 5.1                        |                             |                   |
| <b>Pathogens</b>   |                     |          |                            |                             |                   |
| Escherichia coli   | Not Detected        | #/100 mL | 1                          | See Footnote <sup>d</sup>   |                   |
| Fecal Coliform   | NA                  | #/100 mL | NA                         | 0.0 <sup>e</sup>            |                   |
| Total Coliform   | Not Detected        | #/100 mL | 1                          | 5% (per month) <sup>e</sup> |                   |
| <b>General Chemistry</b>                                 |                     |          |                            |                             |                   |
| Alkalinity as CaCO <sub>3</sub>                          | 181                 | mg/L     | 5                          |                             |                   |
| Bromide  | 0.873               | mg/L     | 0.2                        |                             |                   |
| Chloride   | 96.2                | mg/L     | 3                          |                             | 250               |
| Fluoride   | 0.307               | mg/L     | 0.04                       | 4.0                         | 2.0               |
| Phosphorus, total  | 0.0327              | mg/L     | 0.02                       |                             |                   |
| Sulfate  | 234                 | mg/L     | 15                         |                             | 250               |
| <b>Hormones<sup>f</sup></b>                              |                     |          |                            |                             |                   |
| 17-a-estradiol   | Not Detected        | ug/L     | 0.00021                    |                             |                   |
| 17-a-ethynyl-estradiol                                   | Not Detected        | ug/L     | 0.00016                    |                             |                   |
| 17-b-estradiol   | Not Detected        | ug/L     | 0.00014                    |                             |                   |
| Estrinol   | Not Detected        | ug/L     | 0.00022                    |                             |                   |
| Estrone  | Not Detected        | ug/L     | 0.00021                    |                             |                   |
| <b>Hormones<sup>f</sup></b>                              |                     |          |                            |                             |                   |
| 11-Keto Testosterone                                     | Not Detected        | ug/L     | 0.002                      |                             |                   |
| 17a-Hydroxyprogesterone                                  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| 17alpha-trenbolone                                       | Not Detected        | ug/L     | 0.002                      |                             |                   |
| 17beta-estradiol   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| 17beta-trenbolone  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| 4-Androstenedione  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| a-Estradiol  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| Androstenedione  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| Androsterone   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| a-Zearalanol   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| a-Zearalenol   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| b-Zearalanol   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| b-Zearalenol   | Not Detected        | ug/L     | 0.002                      |                             |                   |
| Epitestosterone  | Not Detected        | ug/L     | 0.002                      |                             |                   |
| Estrinol   | Not Detected        | ug/L     | 0.002                      |                             |                   |

| Chemical                      | Result <sup>a</sup> | Units | Laboratory Detection Limit | Drinking Water Standards  |                   |
|-------------------------------|---------------------|-------|----------------------------|---------------------------|-------------------|
|                               |                     |       |                            | MCL <sup>b</sup>          | SMCL <sup>c</sup> |
| Estrone                       | Not Detected        | ug/L  | 0.002                      |                           |                   |
| Ethinyl Estradiol             | Not Detected        | ug/L  | 0.002                      |                           |                   |
| Melengesterol Acetate         | Not Detected        | ug/L  | 0.002                      |                           |                   |
| Progesterone                  | Not Detected        | ug/L  | 0.002                      |                           |                   |
| Testosterone                  | 0.009               | ug/L  | 0.002                      |                           |                   |
| <b>Metals</b>                 |                     |       |                            |                           |                   |
| Arsenic                       | Not Detected        | ug/L  | 45                         | 10                        |                   |
| Barium                        | 135                 | ug/L  | 1                          | 2000                      |                   |
| Cadmium                       | Not Detected        | ug/L  | 3                          | 5.0                       |                   |
| Calcium                       | 165000              | ug/L  | 30                         |                           |                   |
| Chromium                      | Not Detected        | ug/L  | 10                         | 100                       |                   |
| Copper                        | Not Detected        | ug/L  | 5                          | 1300                      | 1000              |
| Iron                          | Not Detected        | ug/L  | 20                         |                           | 300               |
| Lead                          | Not Detected        | ug/L  | 25                         | 15                        |                   |
| Magnesium                     | 39900               | ug/L  | 50                         |                           |                   |
| Manganese                     | Not Detected        | ug/L  | 2                          |                           | 50                |
| Mercury                       | Not Detected        | ug/L  | 0.05                       | 2.0                       |                   |
| Potassium                     | 6140                | ug/L  | 700                        |                           |                   |
| Selenium                      | Not Detected        | ug/L  | 50                         | 50                        |                   |
| Silver                        | Not Detected        | ug/L  | 10                         |                           | 100               |
| Sodium                        | 41800               | ug/L  | 100                        |                           |                   |
| Zinc                          | 21                  | ug/L  | 5                          |                           | 5000              |
| <b>Perchlorate</b>            |                     |       |                            |                           |                   |
| Perchlorate                   | 1.96                | ug/L  | 0.003                      | See Footnote <sup>g</sup> |                   |
| <b>Pesticides/ Herbicides</b> |                     |       |                            |                           |                   |
| 2,3,4,5-Tetrachlorophenol     | Not Detected        | ug/L  | 0.2                        |                           |                   |
| 2,3,4,6-Tetrachlorophenol     | Not Detected        | ug/L  | 0.1                        |                           |                   |
| 2,4,5-T                       | Not Detected        | ug/L  | 0.49                       |                           |                   |
| 2,4,5-Trichlorophenol         | Not Detected        | ug/L  | 0.2                        |                           |                   |
| 2,4,6-Trichlorophenol         | Not Detected        | ug/L  | 0.49                       |                           |                   |
| 2,4-D                         | Not Detected        | ug/L  | 0.49                       | 70.0                      |                   |
| 2,4-DB                        | Not Detected        | ug/L  | 0.1                        |                           |                   |
| 3,5-Dichlorobenzoic acid      | Not Detected        | ug/L  | 0.1                        |                           |                   |
| 4-Nitrophenol                 | Not Detected        | ug/L  | 0.49                       |                           |                   |
| Acifluorfen                   | Not Detected        | ug/L  | 0.49                       |                           |                   |
| Alachlor                      | Not Detected        | ug/L  | 0.1                        | 2.0                       |                   |
| Atrazine                      | Not Detected        | ug/L  | 0.1                        | 3.0                       |                   |
| Azinphos-methyl               | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Bentazon                      | Not Detected        | ug/L  | 0.098                      |                           |                   |
| Benzonitrile, 2,6-dichloro-   | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Bromoxynil                    | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Chloramben                    | Not Detected        | ug/L  | 0.2                        |                           |                   |
| Chlorpyrifos, Ethyl           | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Clopyralid                    | Not Detected        | ug/L  | 0.98                       |                           |                   |
| DACTHAL-DCPA                  | Not Detected        | ug/L  | 0.49                       |                           |                   |
| Diazinon                      | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Dicamba                       | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Dichlorprop                   | Not Detected        | ug/L  | 0.49                       |                           |                   |
| Diclofop, Methyl              | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Dinoseb                       | Not Detected        | ug/L  | 0.49                       | 7.0                       |                   |
| Diuron                        | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Endosulfan I                  | Not Detected        | ug/L  | 0.1                        |                           |                   |
| Endosulfan II                 | Not Detected        | ug/L  | 0.098                      |                           |                   |

| Chemical   | Result <sup>a</sup> | Units | Laboratory Detection Limit | Drinking Water Standards |                   |
|--|---------------------|-------|----------------------------|--------------------------|-------------------|
|  |                     |       |                            | MCL <sup>b</sup>         | SMCL <sup>c</sup> |
| Endosulfan Sulfate                               | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Fenhexamid                                       | Not Detected        | ug/L  | 0.98                       |                          |                   |
| Fenpropathrin                                    | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Imidan   | Not Detected        | ug/L  | 0.2                        |                          |                   |
| Ioxynil  | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Kresoxim-methyl                                  | Not Detected        | ug/L  | 0.1                        |                          |                   |
| MCPA   | Not Detected        | ug/L  | 0.2                        |                          |                   |
| MCPP   | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Metribuzin                                       | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Myclobutanil                                     | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Oxyfluorfen                                      | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Pendimethalin                                    | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Pentachlorophenol                                | Not Detected        | ug/L  | 0.1                        | 1.0                      |                   |
| Picloram   | Not Detected        | ug/L  | 0.98                       | 500                      |                   |
| Propargite                                       | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Silvex   | Not Detected        | ug/L  | 0.2                        | 50                       |                   |
| Simazine   | Not Detected        | ug/L  | 0.1                        | 4.0                      |                   |
| SURFLAN  | Not Detected        | ug/L  | 2                          |                          |                   |
| Terbacil   | Not Detected        | ug/L  | 2                          |                          |                   |
| Trichlorpyr                                      | Not Detected        | ug/L  | 0.1                        |                          |                   |
| Triflumizole                                     | Not Detected        | ug/L  | 0.39                       |                          |                   |
| Trifluralin                                      | Not Detected        | ug/L  | 0.1                        |                          |                   |
| <b>Trace Organics</b>                            |                     |       |                            |                          |                   |
| 1,4-dichlorobenzene                              | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 1-methylnaphthalene                              | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 2,2',4,4'-tetrabromodiphenyl ether               | Not Detected        | ug/L  | 0.3                        |                          |                   |
| 2,6-dimethylnaphthalene                          | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 2-methylnaphthalene                              | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 3,4-dichlorophenyl isocyanate                    | Not Detected        | ug/L  | 1.6                        |                          |                   |
| 3-beta-coprostanol                               | Not Detected        | ug/L  | 1.6                        |                          |                   |
| 3-methyl-1h-indole (skatol)                      | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 3-tert-butyl-4-hydroxyanisole (bha)              | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 4-cumylphenol                                    | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 4-n-octylphenol                                  | Not Detected        | ug/L  | 0.2                        |                          |                   |
| 4-nonylphenol monoethoxylate - total (np1eo)     | Not Detected        | ug/L  | 1.6                        |                          |                   |
| 4-octylphenol diethoxylate (op2eo)               | Not Detected        | ug/L  | 0.5                        |                          |                   |
| 4-octylphenol monoethoxylate (op1eo)             | Not Detected        | ug/L  | 1                          |                          |                   |
| 4-tert-octylphenol                               | Not Detected        | ug/L  | 0.4                        |                          |                   |
| 5-methyl-1h-benzotriazole                        | Not Detected        | ug/L  | 1.6                        |                          |                   |
| acetophenone                                     | Not Detected        | ug/L  | 0.4                        |                          |                   |
| acetyl-hexamethyl-tetrahydro-naphthalene (ahntn) | Not Detected        | ug/L  | 0.2                        |                          |                   |
| anthracene                                       | Not Detected        | ug/L  | 0.2                        |                          |                   |
| anthraquinone                                    | Not Detected        | ug/L  | 0.2                        |                          |                   |
| atrazine   | Not Detected        | ug/L  | 0.2                        | 3.0                      |                   |
| benz[a]pyrene                                    | Not Detected        | ug/L  | 0.2                        | 0.2                      |                   |
| benzophenone                                     | Not Detected        | ug/L  | 0.2                        |                          |                   |
| beta-sitosterol                                  | Not Detected        | ug/L  | 1.6                        |                          |                   |
| beta-stigmastanol                                | Not Detected        | ug/L  | 1.7                        |                          |                   |
| bis-(2-ethylhexyl) phthalate (dehp)              | 5.26                | ug/L  | 2.0                        | 6                        |                   |
| bisphenol a                                      | Not Detected        | ug/L  | 0.4                        |                          |                   |
| bromacil   | Not Detected        | ug/L  | 0.8                        |                          |                   |

| Chemical   | Result <sup>a</sup> | Units | Laboratory<br>Detection<br>Limit | Drinking Water Standards |                   |
|--|---------------------|-------|----------------------------------|--------------------------|-------------------|
|  |                     |       |                                  | MCL <sup>b</sup>         | SMCL <sup>c</sup> |
| bromoform  | Not Detected        | ug/L  | 0.2                              | 80                       |                   |
| caffeine   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| camphor  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| carbaryl   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| carbazole  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| chlorpyrifos                                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| cholesterol  | Not Detected        | ug/L  | 1.6                              |                          |                   |
| cotinine   | Not Detected        | ug/L  | 0.8                              |                          |                   |
| diazinon   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| dichlorvos   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| diethoxynonylphenols- total (np2eo)                | Not Detected        | ug/L  | 3.2                              |                          |                   |
| diethyl phthalate                                  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| d-limonene   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| fluoranthene                                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| hexahydrohexamethyl<br>cyclopentabenzopyran (hhcb) | Not Detected        | ug/L  | 0.2                              |                          |                   |
| indole   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| isoborneol   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| isophorone   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| isopropylbenzene (cumene)                          | Not Detected        | ug/L  | 0.2                              |                          |                   |
| isoquinoline                                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| menthol  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| metalaxyl  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| methyl salicylate                                  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| metolachlor  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| n,n-diethyl-meta-toluamide (deet)                  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| naphthalene  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| para-nonylphenol total                             | Not Detected        | ug/L  | 1.6                              |                          |                   |
| p-cresol   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| pentachlorophenol                                  | Not Detected        | ug/L  | 1.6                              | 1.0                      |                   |
| phenanthrene                                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| phenol   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| prometon   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| pyrene   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| tetrachloroethylene                                | Not Detected        | ug/L  | 0.4                              | 5.0                      |                   |
| tri(2-butoxyethyl) phosphate                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| tri(2-chloroethyl) phosphate                       | Not Detected        | ug/L  | 0.2                              |                          |                   |
| tri(dichloroisopropyl) phosphate                   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| tributyl phosphate                                 | Not Detected        | ug/L  | 0.2                              |                          |                   |
| triclosan  | Not Detected        | ug/L  | 0.2                              |                          |                   |
| triethyl citrate (ethyl citrate)                   | Not Detected        | ug/L  | 0.2                              |                          |                   |
| triphenyl phosphate                                | Not Detected        | ug/L  | 0.2                              |                          |                   |
| <b>Veterinary Pharmaceuticals</b>                  |                     |       |                                  |                          |                   |
| Chlortetracycline(total)                           | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Erythromycin                                       | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Lincomycin   | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Monensin   | <b>0.028</b>        | ug/L  | <b>0.02</b>                      |                          |                   |
| Oxytetracycline                                    | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Ractopamine  | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Sulfachloropyridazine                              | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Sulfadimethoxine                                   | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Sulfamerazine                                      | Not Detected        | ug/L  | 0.02                             |                          |                   |
| Sulfamethazine                                     | Not Detected        | ug/L  | 0.02                             |                          |                   |

| Chemical                           | Result <sup>a</sup>       | Units  | Laboratory Detection Limit | Drinking Water Standards |                   |
|------------------------------------|---------------------------|--------|----------------------------|--------------------------|-------------------|
|                                    |                           |        |                            | MCL <sup>b</sup>         | SMCL <sup>c</sup> |
| Sulfamethazole                     | Not Detected              | ug/L   | 0.02                       |                          |                   |
| Sulfamethoxazole                   | Not Detected              | ug/L   | 0.02                       |                          |                   |
| Sulfathiazole                      | Not Detected              | ug/L   | 0.02                       |                          |                   |
| Tetracycline                       | 0.041 J                   | ug/L   | 0.02                       |                          |                   |
| Tiamulin                           | Not Detected              | ug/L   | 0.02                       |                          |                   |
| Tylosin                            | Not Detected              | ug/L   | 0.02                       |                          |                   |
| Virginiamycin                      | Not Detected              | ug/L   | 0.02                       |                          |                   |
| <b>Wastewater Pharmaceuticals</b>  |                           |        |                            |                          |                   |
| Acetaminophen                      | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Amphetamine                        | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Azithromycin                       | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Caffeine                           | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Carbamazepine                      | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Cotinine                           | Not Detected              | ug/L   | 0.2                        |                          |                   |
| DEET                               | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Diphenhydramine                    | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Ibuprofen                          | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Methamphetamine                    | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Naproxen                           | <b>Result Not Useable</b> | ug/L   | 0.2                        |                          |                   |
| Paraxanthine                       | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Thiabendazole                      | Not Detected              | ug/L   | 0.2                        |                          |                   |
| Triclosan                          | <b>Result Not Useable</b> | ug/L   | 0.2                        |                          |                   |
| <b>Nitrogen Isotopes</b>           |                           |        |                            |                          |                   |
| Nitrate (NO <sub>3</sub> ) as N    | 34                        | (mg/L) | 0.1                        |                          |                   |
| $\delta^{15}N-NO_3$                | 2.3                       | (‰)    | NR                         |                          |                   |
| Ammonia (NH <sub>4</sub> ) as N    | 0.3                       | (mg/L) | 0.1                        |                          |                   |
| $\delta^{15}N-NH_4$                | NM                        | (‰)    | NM                         |                          |                   |
| $\delta^{18}O-NO_3$                | 29                        | ‰ SMOW | NR                         |                          |                   |
| <b>Age Dating</b>                  |                           |        |                            |                          |                   |
| Piston Flow Model SF6 Recharge Age | 25.3 J                    | years  | 1970 <sup>h</sup>          |                          |                   |

## Laboratory Results Notes, Abbreviations and Units

### Notes

**Shading indicates that the chemical was detected above the MCL.**

### Footnotes

<sup>a</sup>The Results column shows a numeric value for the concentration of the chemical if the chemical was detected in the sample. The term "Not Detected" means that the chemical was not detected in the sample above the laboratory detection limit. The term "Result Not Usable" indicates that there were quality assurance or quality control problems with the laboratory analysis of that chemical and there are no results to report.

<sup>b</sup>Maximum contaminant levels (MCLs) are the highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

<sup>c</sup>National Secondary Drinking Water Regulations (or secondary maximum contaminant levels [SMCLs]) are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

<sup>d</sup>Any fecal coliform-positive repeat sample or *E. coli*-positive repeat sample, or any total coliform-positive repeat sample following a fecal coliform-positive routine sample constitutes a violation of the MCL for total coliforms. For purposes of the public notification requirements, this is a violation that may pose an acute risk to health.

<sup>e</sup>No more than 5.0% samples total coliform-positive in a month. Every sample that has total coliforms must be analyzed for fecal coliforms; no fecal coliforms are allowed.

<sup>f</sup>Five hormones (17-a-estradiol, 17-a-ethynyl-estradiol, 17-b-estradiol, Estriol, and Estrone) were analyzed by two laboratories. The detection limits for these chemicals were different at each laboratory.

<sup>g</sup>EPA does not have a MCL level for perchlorate. The human health based standard calculated under Washington State Model Toxics Control Act (MTCA) Cleanup Levels and Risk Calculation (CLARC) tool using Method B is 11ug/L.

<sup>h</sup>The SF6 recharge dating limit is around 1970.

### Abbreviations

MCL - Maximum Contaminant Level

MTCA - Model Toxics Control Act

ND - Analysis not done

NM - Insufficient nitrate to complete analysis

NR - Not relevant. The result is a calculated value.

SMCL - Secondary Maximum Contaminant Level

SMOW - standard mean of ocean water

TNTC - Too numerous to count

$\delta^{15}\text{N-NO}_3$  = Nitrogen isotopes of nitrate. Ratio of the nitrogen isotopes  $^{15}\text{N}$  and  $^{14}\text{N}$  in a specific sample using nitrate compared to a standard of known composition of  $^{15}\text{N}$  and  $^{14}\text{N}$ . This expressed as the parts per thousand (‰).

$\delta^{15}\text{N-HN}_4$  = Nitrogen isotopes of ammonia. Ratio of the nitrogen isotopes  $^{15}\text{N}$  and  $^{14}\text{N}$  in a specific sample using ammonia compared to a standard of known composition of  $^{15}\text{N}$  and  $^{14}\text{N}$ . This expressed as the parts per thousand (‰).

$\delta^{18}\text{O-NO}_3$  = Oxygen isotopes of nitrate. Ratio of the oxygen isotopes  $^{18}\text{O}$  and  $^{16}\text{O}$  in a specific sample using nitrate compared to a standard of known composition of  $^{18}\text{O}$  and  $^{16}\text{O}$ . This expressed as the parts per thousand (‰) standard mean of ocean water.

### **Units**

CFU/100 ml = colony forming unit per 100 milliliters

MPN/100 ml = most probable number per 100 milliliters

ug/L = micrograms per liter

mg/L = milligrams per liter

‰ = parts per thousand difference from the atmospheric standard

### **Data Qualifiers**

< = less than

J = The analyte was positively identified. The associated numerical value is an estimate.

R = The data are unusable for all purposes.