

Appendix E

Summary of Groundwater Monitoring Data

Table E - 1
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity $\mu\text{mhos/cm}25\text{C}$ | TOC mg/L | TOX mg/L | Gross Alpha $\mu\text{Ci/mL}$ | Gross Beta $\mu\text{Ci/mL}$ | Tritium $\mu\text{Ci/mL}$ | Cs-137 $\mu\text{Ci/mL}$ | Co-60 $\mu\text{Ci/mL}$ |
|---------------|--------------------|------|--|----------|----------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|
| WNW0301 | UP(1) | 7.04 | 680 | 0.8 | <0.004 | <1.38E-09 | <2.73E-09 | <7.08E-08 | <2.14E-08 | <2.37E-08 |
| WNW0301 | UP(2) | 7.00 | 765 | 0.9 | 0.006 | <2.67E-09 | 3.61±2.52E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0301 | UP(3) | 7.28 | 755 | 1.0 | 0.010 | <2.94E-09 | <3.02E-09 | <1.00E-07 | <2.88E-08 | <3.06E-08 |
| WNW0301 | UP(4) | 6.92 | 704 | 1.0 | <0.004 | <3.72E-09 | <2.74E-09 | 1.01±0.73E-07 | <3.50E-08 | <3.69E-08 |
| WNW0301 | UP(6) | 6.85 | 615 | 1.2 | <0.004 | <2.62E-09 | 3.05±2.93E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0301 | UP(7) | 7.06 | 838 | 0.9 | <0.004 | <3.58E-09 | 3.53±3.14E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0301 | UP(5) | 6.89 | 624 | 0.7 | <0.004 | <3.45E-09 | 2.90±2.48E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0301 | UP(8) | 6.83 | 636 | 0.9 | <0.004 | <2.31E-09 | 3.55±2.83E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0401 | UP(1) | 6.57 | 1284 | 0.7 | 0.006 | <3.79E-09 | <5.15E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0401 | UP(2) | 6.71 | 1971 | 0.6 | 0.007 | <7.13E-09 | 1.05±0.54E-08 | <1.00E-07 | <2.20E-08 | <2.40E-08 |
| WNW0401 | UP(3) | 6.76 | 2020 | 0.9 | 0.018 | <1.91E-08 | 1.55±0.55E-08 | <8.52E-08 | <3.43E-08 | <3.11E-08 |
| WNW0401 | UP(4) | 6.14 | 1482 | 1.2 | 0.006 | <5.46E-09 | 6.46±4.48E-09 | <7.69E-08 | <3.50E-08 | <3.69E-08 |
| WNW0401 | UP(6) | 6.93 | 1713 | 0.7 | 0.006 | <1.00E-08 | 4.82±4.45E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0401 | UP(7) | 6.80 | 1568 | 0.6 | 0.006 | <8.71E-09 | <4.04E-09 | <7.42E-08 | <2.05E-08 | <2.12E-08 |
| WNW0401 | UP(5) | 6.87 | 1512 | 0.7 | 0.006 | <4.64E-09 | <3.41E-09 | <1.00E-07 | <2.75E-08 | <2.64E-08 |
| WNW0401 | UP(8) | 6.78 | 1388 | 0.7 | 0.004 | <6.03E-09 | <3.82E-09 | <1.00E-07 | <2.39E-08 | <2.63E-08 |
| WNW0403 | UP(1) | 6.50 | 746 | 1.2 | 0.006 | <1.92E-09 | 3.24±2.85E-09 | <7.94E-08 | <2.31E-08 | <1.92E-08 |
| WNW0403 | UP(2) | 6.81 | 972 | 1.9 | 0.016 | 9.76±6.62E-09 | <2.70E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0403 | UP(3) | 6.74 | 1147 | 1.4 | 0.008 | <5.00E-09 | 6.34±3.34E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0403 | UP(4) | 6.26 | 1454 | 1.8 | 0.018 | <8.39E-09 | 8.53±3.45E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0403 | UP(6) | 6.44 | 1098 | 2.8 | 0.014 | <7.45E-09 | 6.92±3.43E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0403 | UP(7) | 6.82 | 1091 | 1.6 | 0.010 | <4.56E-09 | <4.89E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0403 | UP(5) | 6.59 | 774 | 1.6 | 0.005 | <3.50E-09 | 4.30±3.01E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0403 | UP(8) | 6.73 | 878 | 1.2 | 0.005 | <3.97E-09 | 7.07±3.03E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNWNB1S | UP(1) | 6.03 | 672 | 1.1 | 0.014 | <2.32E-09 | 2.82±2.56E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNWNB1S | UP(2) | 5.87 | 478 | 1.3 | 0.015 | <1.56E-09 | <2.52E-09 | <6.47E-08 | <2.14E-08 | <2.37E-08 |
| WNWNB1S | UP(3) | 6.02 | 399 | 2.9 | 0.010 | <1.55E-09 | 5.82±2.83E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNWNB1S | UP(4) | 5.91 | 400 | 1.8 | 0.012 | <1.29E-09 | 3.80±2.75E-09 | <8.26E-08 | <2.27E-08 | <2.42E-08 |
| WNWNB1S | UP(6) | 6.01 | 363 | 1.8 | 0.009 | <2.35E-09 | <2.31E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNWNB1S | UP(7) | 6.57 | 679 | 1.5 | <0.004 | <3.23E-09 | 2.63±2.52E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNWNB1S | UP(5) | 6.02 | 351 | 1.7 | 0.006 | <1.09E-09 | 4.97±2.63E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNWNB1S | UP(8) | 6.47 | 600 | 1.3 | 0.008 | 1.95±1.91E-09 | <2.57E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0201 | DOWN - B(1) | 5.99 | 1188 | 2.0 | 0.006 | 3.95±3.87E-09 | 1.02±0.12E-07 | <7.93E-08 | <2.31E-08 | <1.92E-08 |
| WNW0201 | DOWN - B(2) | 5.86 | 1364 | 1.9 | 0.011 | <4.39E-09 | 8.62±1.12E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0201 | DOWN - B(3) | 5.88 | 1533 | 1.9 | 0.014 | <1.09E-08 | 1.17±0.10E-07 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0201 | DOWN - B(4) | 5.99 | 952 | 2.8 | 0.015 | <4.64E-09 | 7.39±0.74E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0201 | DOWN - B(6) | 6.12 | 958 | 2.8 | 0.014 | <4.62E-09 | 6.02±0.66E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0201 | DOWN - B(7) | 6.33 | 1203 | 2.5 | 0.016 | <4.57E-09 | 7.88±0.77E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0201 | DOWN - B(5) | 6.11 | 935 | 2.4 | 0.006 | <4.55E-09 | 6.66±0.82E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0201 | DOWN - B(8) | 6.10 | 976 | 2.6 | 0.015 | <3.50E-09 | 6.42±0.80E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 1 (continued)

Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0706 | DOWN - B(1) | 6.78 | 503 | 3.7 | 0.013 | <1.07E-09 | 3.28±2.72E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW0706 | DOWN - B(2) | 6.39 | 596 | 4.5 | 0.015 | <2.02E-09 | 6.09±2.96E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0706 | DOWN - B(3) | 6.34 | 540 | 3.9 | 0.010 | <2.49E-09 | 7.96±3.11E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0706 | DOWN - B(4) | 6.48 | 590 | 3.6 | 0.009 | <2.41E-09 | 1.05±0.35E-08 | <7.63E-08 | <3.50E-08 | <3.69E-08 |
| WNW0706 | DOWN - B(6) | 6.57 | 559 | 3.1 | 0.009 | <2.02E-09 | 6.78±3.23E-09 | <7.63E-08 | <3.50E-08 | <3.69E-08 |
| WNW0706 | DOWN - B(7) | 6.34 | 526 | 3.5 | 0.012 | <3.30E-09 | 9.62±3.23E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0706 | DOWN - B(5) | 6.26 | 435 | 2.9 | 0.008 | <2.45E-09 | 3.78±2.74E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0706 | DOWN - B(8) | 6.23 | 700 | 5.1 | 0.023 | <2.36E-09 | 9.65±3.44E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8613A | DOWN - B(1) | 6.44 | 680 | 1.1 | 0.017 | <1.74E-09 | <2.46E-09 | 2.12±0.82E-07 | <3.66E-08 | <3.35E-08 |
| WNW8613A | DOWN - B(2) | 6.74 | 685 | 2.3 | 0.014 | <1.21E-09 | 4.98±2.70E-09 | <7.93E-08 | <2.14E-08 | <2.37E-08 |
| WNW8613A | DOWN - B(3) | 6.87 | 649 | 1.4 | 0.005 | <3.79E-09 | 3.64±2.86E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8613A | DOWN - B(4) | 6.77 | 687 | 1.0 | 0.005 | <4.48E-09 | 3.04±2.92E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8613A | DOWN - B(6) | 6.83 | 694 | 1.1 | 0.007 | <4.43E-09 | <2.78E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8613A | DOWN - B(7) | 6.69 | 672 | 1.0 | 0.005 | <2.67E-09 | <2.67E-09 | <7.75E-08 | <2.05E-08 | <2.12E-08 |
| WNW8613A | DOWN - B(5) | 6.88 | 685 | 0.9 | 0.006 | <2.32E-09 | 3.70±2.64E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8613A | DOWN - B(8) | 6.80 | 726 | 0.9 | 0.006 | <2.43E-09 | <2.61E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8613B | DOWN - B(1) | 6.03 | 642 | 2.7 | 0.025 | <1.47E-09 | 4.46±2.94E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW8613B | DOWN - B(2) | 6.17 | 654 | 2.2 | 0.025 | <2.69E-09 | 3.24±2.71E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW8613B | DOWN - B(3) | 6.44 | 626 | 2.5 | 0.018 | <2.49E-09 | <2.66E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW8613B | DOWN - B(4) | 6.20 | 714 | 2.3 | 0.009 | <3.92E-09 | 9.09±3.45E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8613B | DOWN - B(6) | 6.44 | 613 | 1.9 | 0.009 | <2.25E-09 | 9.28±3.20E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8613B | DOWN - B(7) | 6.39 | 575 | 2.2 | 0.009 | <2.88E-09 | <2.57E-09 | <7.61E-08 | <2.64E-08 | <2.75E-08 |
| WNW8613B | DOWN - B(5) | 6.43 | 487 | 2.5 | <0.004 | <2.89E-09 | 2.90±2.45E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8613B | DOWN - B(8) | 6.32 | 612 | 1.8 | 0.007 | <2.30E-09 | 3.29±2.73E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8613C | DOWN - B(1) | 7.12 | 644 | 2.0 | 0.013 | <2.42E-09 | 6.53±3.19E-09 | 3.08±0.81E-07 | <3.66E-08 | <3.35E-08 |
| WNW8613C | DOWN - B(2) | 7.33 | 551 | 1.5 | 0.008 | <2.62E-09 | 3.53±2.73E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW8613C | DOWN - B(3) | 7.54 | 521 | 1.6 | 0.009 | <2.97E-09 | <2.82E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8613C | DOWN - B(4) | 7.41 | 579 | 1.6 | <0.004 | <2.52E-09 | 8.19±3.19E-09 | 8.42±7.65E-08 | <2.27E-08 | <2.42E-08 |
| WNW8613C | DOWN - B(6) | 7.41 | 490 | 1.1 | 0.004 | <2.15E-09 | 4.89±2.89E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8613C | DOWN - B(7) | 7.35 | 464 | 1.0 | <0.004 | <2.37E-09 | 7.41±3.18E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8613C | DOWN - B(5) | 7.62 | 415 | 0.9 | <0.004 | <2.60E-09 | 6.78±2.84E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8613C | DOWN - B(8) | 7.44 | 474 | 1.2 | 0.006 | <2.76E-09 | 3.19±2.48E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNSP008 | DOWN - C(1) | 6.48 | 907 | 2.5 | 0.011 | <3.53E-09 | 5.38±0.78E-08 | 4.60±0.21E-06 | <3.43E-08 | <3.11E-08 |
| WNSP008 | DOWN - C(2) | 6.32 | 952 | 2.5 | 0.018 | <4.88E-09 | 6.12±0.66E-08 | 5.19±0.22E-06 | <2.88E-08 | <3.06E-08 |
| WNSP008 | DOWN - C(3) | 6.75 | 1028 | 2.4 | 0.023 | 5.66±5.23E-09 | 6.93±0.86E-08 | 5.92±0.24E-06 | <3.50E-08 | <3.69E-08 |
| WNSP008 | DOWN - C(4) | 6.74 | 1046 | 2.5 | 0.014 | <6.12E-09 | 5.19±0.63E-08 | 5.06±0.22E-06 | <3.50E-08 | <3.69E-08 |
| WNSP008 | DOWN - C(4) | 6.85 | 924 | 2.3 | 0.017 | <4.01E-09 | 5.85±0.67E-08 | 4.19±0.19E-06 | <3.50E-08 | <3.69E-08 |
| WNSP008 | DOWN - C(6) | 6.89 | 1013 | 2.5 | 0.014 | <5.21E-09 | 6.82±0.72E-08 | 5.12±0.22E-06 | <2.88E-08 | <3.06E-08 |
| WNSP008 | DOWN - C(7) | 6.88 | 992 | 2.6 | 0.017 | <5.84E-09 | 6.06±0.66E-08 | 4.75±0.19E-06 | <3.16E-08 | <3.68E-08 |
| WNSP008 | DOWN - C(5) | 6.59 | 901 | 2.4 | 0.015 | <5.33E-09 | 7.51±0.72E-08 | 5.01±0.20E-06 | <2.64E-08 | <2.75E-08 |
| WNSP008 | DOWN - C(8) | 6.70 | 994 | 2.8 | 0.009 | <3.63E-09 | 7.85±0.75E-08 | 5.44±0.22E-06 | <2.39E-08 | <2.63E-08 |

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Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|-------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0103 | DOWN - C(1) | 9.62 | 4310 | 8.9 | 0.053 | <1.38E-08 | 1.21±0.25E-07 | <7.98E-08 | <3.66E-08 | <3.35E-08 |
| WNW0103 | DOWN - C(2) | 9.13 | 3970 | 6.5 | 0.016 | <1.01E-08 | 1.13±0.16E-07 | 1.66±0.81E-07 | <2.27E-08 | <2.42E-08 |
| WNW0103 | DOWN - C(3) | 9.27 | 1287 | 8.3 | 0.028 | <5.74E-09 | 4.34±1.06E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0103 | DOWN - C(4) | 10.14 | 1898 | 18.5 | 0.005 | <9.26E-09 | 4.53±1.38E-08 | 5.89±0.84E-07 | <3.50E-08 | <3.69E-08 |
| WNW0103 | DOWN - C(6) | 9.64 | 1400 | 16.9 | 0.008 | <7.19E-09 | 4.36±0.94E-08 | <9.16E-08 | <2.14E-08 | <2.51E-08 |
| WNW0103 | DOWN - C(7) | 9.41 | 1030 | 8.7 | 0.005 | <4.92E-09 | 3.81±0.87E-08 | 1.16±0.77E-07 | <2.64E-08 | <2.75E-08 |
| WNW0103 | DOWN - C(5) | 8.94 | 1038 | 7.4 | 0.006 | <5.20E-09 | 5.48±1.14E-08 | 8.42±7.52E-08 | <2.14E-08 | <2.51E-08 |
| WNW0103 | DOWN - C(8) | 8.04 | 3465 | 2.9 | 0.010 | <7.93E-09 | 3.79±0.27E-07 | 1.32±0.76E-07 | <2.64E-08 | <2.75E-08 |
| WNW0104 | DOWN - C(1) | 6.92 | 959 | 3.1 | 0.015 | <4.43E-09 | 2.10±0.04E-06 | 9.56±0.95E-07 | <2.31E-08 | <1.92E-08 |
| WNW0104 | DOWN - C(2) | 7.25 | 971 | 2.4 | 0.019 | <3.05E-09 | 2.29±0.03E-06 | 1.12±0.10E-06 | <3.43E-08 | <3.11E-08 |
| WNW0104 | DOWN - C(3) | 7.08 | 1073 | 2.3 | 0.020 | <8.40E-09 | 3.36±0.06E-06 | 8.94±0.89E-07 | <2.27E-08 | <2.42E-08 |
| WNW0104 | DOWN - C(4) | 7.13 | 1057 | < 1.0 | <0.010 | <5.34E-09 | 3.44±0.06E-06 | 9.54±0.90E-07 | <2.27E-08 | <2.42E-08 |
| WNW0104 | DOWN - C(6) | 7.26 | 1070 | 1.4 | 0.011 | <4.28E-09 | 3.51±0.06E-06 | 1.52±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0104 | DOWN - C(7) | 7.09 | 1046 | 3.2 | 0.014 | <3.54E-09 | 3.46±0.06E-06 | 9.72±0.90E-07 | <2.39E-08 | <2.63E-08 |
| WNW0104 | DOWN - C(5) | 7.19 | 1052 | 1.9 | <0.010 | <2.50E-09 | 3.27±0.05E-06 | 1.06±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW0104 | DOWN - C(8) | 7.02 | 1032 | 2.2 | <0.010 | <2.44E-09 | 3.99±0.06E-06 | 1.08±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW0111 | DOWN - C(1) | 6.26 | 839 | 7.8 | 0.048 | 8.80±6.91E-09 | 6.72±0.06E-06 | 8.15±0.33E-06 | <2.31E-08 | <1.92E-08 |
| WNW0111 | DOWN - C(2) | 6.34 | 775 | 6.1 | 0.026 | <3.60E-09 | 4.39±0.05E-06 | 4.65±0.20E-06 | <2.33E-08 | <2.58E-08 |
| WNW0111 | DOWN - C(3) | 6.24 | 663 | 8.5 | 0.045 | <3.87E-09 | 4.44±0.05E-06 | 1.72±0.12E-06 | <2.27E-08 | <2.42E-08 |
| WNW0111 | DOWN - C(4) | 6.31 | 799 | 9.2 | 0.053 | <5.84E-09 | 6.44±0.06E-06 | 4.94±0.21E-06 | <2.27E-08 | <2.42E-08 |
| WNW0111 | DOWN - C(6) | 6.35 | 821 | 10.7 | 0.038 | 6.88±5.84E-09 | 8.14±0.07E-06 | 6.76±0.25E-06 | <2.14E-08 | <2.51E-08 |
| WNW0111 | DOWN - C(7) | 6.19 | 755 | 11.1 | 0.031 | 1.12±0.59E-08 | 7.96±0.07E-06 | 4.83±0.19E-06 | <9.30E-08 | <1.09E-07 |
| WNW0111 | DOWN - C(5) | 6.58 | 572 | 7.8 | 0.015 | <1.36E-09 | 4.79±0.05E-06 | 1.64±0.11E-06 | <2.14E-08 | <2.51E-08 |
| WNW0111 | DOWN - C(8) | 6.21 | 525 | 7.9 | 0.016 | 2.82±2.26E-09 | 4.77±0.05E-06 | 2.00±0.12E-06 | <2.14E-08 | <2.51E-08 |
| WNW0203 | DOWN - C(1) | 6.48 | 1885 | 2.9 | 0.022 | <8.22E-09 | 2.54±1.24E-08 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0203 | DOWN - C(2) | 6.14 | 2420 | 2.3 | 0.036 | <1.64E-08 | 3.27±0.61E-08 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0203 | DOWN - C(3) | 6.37 | 4250 | 1.6 | 0.039 | <1.34E-08 | 5.12±1.54E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0203 | DOWN - C(4) | 6.43 | 1832 | 2.5 | 0.024 | <1.02E-08 | 2.12±0.76E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0203 | DOWN - C(6) | 6.42 | 1393 | 2.2 | 0.017 | <6.58E-09 | 2.11±0.70E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0203 | DOWN - C(7) | 6.53 | 1766 | 2.4 | 0.019 | <9.98E-09 | 2.25±0.75E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0203 | DOWN - C(5) | 6.43 | 1879 | 2.5 | 0.046 | <7.16E-09 | 3.50±0.80E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0203 | DOWN - C(8) | 6.57 | 1672 | 2.3 | 0.034 | <6.81E-09 | 2.56±0.72E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0205 | DOWN - C(1) | 6.13 | 2575 | 3.7 | 0.025 | <7.81E-09 | 1.30±1.14E-08 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0205 | DOWN - C(2) | 6.01 | 3285 | 2.9 | 0.030 | <1.14E-08 | 1.73±1.01E-08 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0205 | DOWN - C(3) | 6.23 | 7405 | 2.2 | N/A | <1.86E-08 | 2.15±0.83E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0205 | DOWN - C(4) | 6.27 | 6855 | 4.5 | 0.046 | <1.50E-08 | <1.74E-08 | <7.83E-08 | <3.50E-08 | <3.69E-08 |
| WNW0205 | DOWN - C(6) | 6.45 | 5020 | 6.8 | 0.106 | <1.89E-08 | 1.96±1.64E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0205 | DOWN - C(7) | 6.54 | 4020 | 7.0 | 0.067 | <1.54E-08 | <1.12E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0205 | DOWN - C(5) | 6.72 | 3055 | 6.1 | 0.083 | <1.40E-08 | <1.39E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0205 | DOWN - C(8) | 6.73 | 206* | 4.5 | 0.075 | <9.81E-09 | <1.35E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

** Apparent analytical outlier*

Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity µmhos/cm | TOC mg/L | TOX mg/L | Gross Alpha µCi/mL | Gross Beta µCi/mL | Tritium µCi/mL | Cs-137 µCi/mL | Co-60 µCi/mL |
|---------------|--------------------|------|--------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0305 | DOWN - C(1) | 6.80 | 1092 | 1.8 | 0.019 | 4.39±4.30E-09 | <7.00E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0305 | DOWN - C(2) | 6.81 | 1102 | 1.6 | 0.014 | <4.66E-09 | <7.26E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0305 | DOWN - C(3) | 6.88 | 1149 | 0.9 | 0.029 | <5.52E-09 | 8.49±7.89E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0305 | DOWN - C(4) | 6.89 | 1295 | 1.4 | 0.018 | <6.55E-09 | 1.33±1.02E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0305 | DOWN - C(6) | 6.90 | 1387 | 1.4 | 0.010 | <7.13E-09 | <9.72E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0305 | DOWN - C(7) | 6.92 | 1273 | 1.5 | 0.016 | <6.48E-09 | 1.50±0.97E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0305 | DOWN - C(5) | 6.78 | 1230 | 1.5 | 0.012 | <6.84E-09 | 1.50±0.98E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0305 | DOWN - C(8) | 6.95 | 1215 | 1.7 | 0.023 | <3.92E-09 | 4.97±4.97E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0307 | DOWN - C(1) | 6.57 | 1007 | 1.6 | 0.009 | <2.09E-09 | 1.01±0.81E-08 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0307 | DOWN - C(2) | 6.90 | 1003 | 1.7 | 0.026 | <2.68E-09 | 5.99±5.16E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0307 | DOWN - C(3) | 6.81 | 1054 | 1.2 | 0.016 | <2.02E-09 | 4.55±3.15E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0307 | DOWN - C(4) | 6.85 | 1180 | 1.8 | 0.037 | <4.67E-09 | 7.84±3.33E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0307 | DOWN - C(6) | 6.88 | 1180 | 1.3 | 0.016 | <7.30E-09 | 7.46±3.49E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0307 | DOWN - C(7) | 7.01 | 1015 | 2.1 | 0.012 | <3.47E-09 | 1.10±0.35E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0307 | DOWN - C(5) | 6.73 | 1017 | 1.4 | 0.006 | <3.49E-09 | 7.52±3.16E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0307 | DOWN - C(8) | 6.92 | 983 | 1.6 | 0.012 | <1.90E-09 | 6.59±3.23E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0406 | DOWN - C(1) | 6.75 | 685 | 4.2 | 0.017 | 6.24±5.72E-09 | 6.80±3.36E-09 | 3.69±0.18E-06 | <3.43E-08 | <3.11E-08 |
| WNW0406 | DOWN - C(2) | 6.85 | 703 | 3.3 | 0.018 | <2.73E-09 | 7.72±3.28E-09 | 2.22±0.13E-06 | <3.50E-08 | <3.69E-08 |
| WNW0406 | DOWN - C(3) | 7.19 | 695 | 3.1 | 0.010 | <1.92E-09 | 9.06±3.50E-09 | 2.17±0.12E-06 | <3.50E-08 | <3.69E-08 |
| WNW0406 | DOWN - C(4) | 6.90 | 691 | 3.1 | 0.017 | <3.67E-09 | 9.21±3.21E-09 | 2.07±0.13E-06 | <3.50E-08 | <3.69E-08 |
| WNW0406 | DOWN - C(6) | 6.89 | 613 | 3.6 | 0.019 | <2.97E-09 | 9.91±3.28E-09 | 1.48±0.11E-06 | <2.16E-08 | <2.27E-08 |
| WNW0406 | DOWN - C(7) | 6.97 | 624 | 3.7 | 0.005 | <3.62E-09 | 7.97±3.42E-09 | 1.47±0.10E-06 | <3.16E-08 | <3.68E-08 |
| WNW0406 | DOWN - C(5) | 6.79 | 627 | 3.2 | 0.007 | <2.36E-09 | 1.08±0.33E-08 | 1.43±0.10E-06 | <2.39E-08 | <2.63E-08 |
| WNW0406 | DOWN - C(8) | 7.00 | 594 | 3.3 | 0.016 | <2.21E-09 | 1.18±0.35E-08 | 1.28±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0408 | DOWN - C(1) | 7.40 | 1069 | 2.0 | 0.043 | <5.36E-09 | 1.64±0.00E-04 | 1.63±0.05E-05 | <3.66E-08 | <3.55E-08 |
| WNW0408 | DOWN - C(2) | 7.62 | 1060 | <1.0 | 0.029 | <6.39E-09 | 1.78±0.00E-04 | 1.68±0.06E-05 | <3.43E-08 | <3.11E-08 |
| WNW0408 | DOWN - C(3) | 7.27 | 1245 | 1.5 | 0.046 | <1.58E-08 | 1.99±0.00E-04 | 1.64±0.05E-05 | <2.27E-08 | <2.42E-08 |
| WNW0408 | DOWN - C(4) | 7.49 | 1327 | 1.5 | 0.027 | <1.04E-08 | 2.07±0.00E-04 | 2.11±0.07E-05 | <2.27E-08 | <2.42E-08 |
| WNW0408 | DOWN - C(6) | 7.37 | 1324 | 2.6 | <0.010 | <1.28E-08 | 2.95±0.01E-04 | 2.41±0.08E-05 | <2.64E-08 | <2.75E-08 |
| WNW0408 | DOWN - C(7) | 7.07 | 1215 | 2.3 | 0.021 | <7.24E-09 | 2.73±0.01E-04 | 2.18±0.07E-05 | <2.14E-08 | <2.51E-08 |
| WNW0408 | DOWN - C(5) | 7.47 | 1241 | 1.1 | <0.010 | <4.17E-09 | 2.69±0.01E-04 | 2.14±0.07E-05 | <2.14E-08 | <2.51E-08 |
| WNW0408 | DOWN - C(8) | 7.23 | 1165 | 1.7 | 0.025 | <3.34E-09 | 2.68±0.01E-04 | 1.94±0.06E-05 | <2.14E-08 | <2.51E-08 |
| WNW0501 | DOWN - C(1) | 7.17 | 810 | 1.3 | 0.023 | <5.08E-09 | 1.07±0.00E-04 | 8.87±0.33E-06 | <3.66E-08 | <3.35E-08 |
| WNW0501 | DOWN - C(2) | 7.26 | 860 | 1.3 | 0.017 | <5.27E-09 | 1.11±0.00E-04 | 8.87±0.33E-06 | <3.43E-08 | <3.11E-08 |
| WNW0501 | DOWN - C(3) | 7.19 | 1109 | 1.2 | 0.021 | <1.24E-08 | 1.73±0.00E-04 | 1.06±0.04E-05 | <2.27E-08 | <2.42E-08 |
| WNW0501 | DOWN - C(4) | 7.26 | 1038 | 1.6 | 0.021 | <8.85E-09 | 1.62±0.00E-04 | 9.33±0.34E-06 | <3.50E-08 | <3.69E-08 |
| WNW0501 | DOWN - C(6) | 7.32 | 986 | 2.1 | <0.010 | <5.14E-09 | 1.54±0.00E-04 | 1.37±0.04E-05 | 2.55±0.04E-08 | <2.51E-08 |
| WNW0501 | DOWN - C(7) | 6.96 | 934 | 2.3 | <0.010 | <4.68E-09 | 1.24±0.00E-04 | 1.0±0.03E-05 | <2.64E-08 | <2.75E-08 |
| WNW0501 | DOWN - C(5) | 7.40 | 881 | 1.1 | 0.015 | 4.36±3.82E-09 | 1.29±0.00E-04 | 9.89±0.34E-06 | <2.64E-08 | <2.75E-08 |
| WNW0501 | DOWN - C(8) | 7.13 | 845 | 3.1 | <0.010 | <3.02E-09 | 1.30±0.00E-04 | 9.11±0.32E-06 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|--------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0502 | DOWN - C(1) | 7.14 | 869 | 1.3 | 0.014 | <3.61E-09 | 3.92±0.02E-05 | 3.49±0.17E-06 | <3.66E-08 | <3.55E-08 |
| WNW0502 | DOWN - C(2) | 7.18 | 885 | 1.4 | 0.014 | <6.58E-09 | 4.38±0.02E-05 | 3.73±0.18E-06 | <3.43E-08 | <3.11E-08 |
| WNW0502 | DOWN - C(3) | 7.11 | 1046 | 1.1 | 0.023 | <6.04E-09 | 5.66±0.02E-05 | 4.10±0.18E-06 | <3.50E-08 | <3.69E-08 |
| WNW0502 | DOWN - C(4) | 7.34 | 1070 | 1.4 | 0.022 | <7.32E-09 | 4.58±0.02E-05 | 4.10±0.18E-06 | <2.27E-08 | <2.42E-08 |
| WNW0502 | DOWN - C(6) | 7.25 | 1049 | 1.7 | <0.010 | <3.62E-09 | 5.30±0.02E-05 | 6.29±0.24E-06 | <2.14E-08 | <2.51E-08 |
| WNW0502 | DOWN - C(7) | 6.90 | 967 | 2.3 | 0.015 | <3.73E-09 | 5.70±0.02E-05 | 4.26±0.18E-06 | <2.64E-08 | <2.75E-08 |
| WNW0502 | DOWN - C(5) | 7.39 | 941 | 1.1 | <0.010 | <2.21E-09 | 5.52±0.02E-05 | 4.46±0.18E-06 | <2.64E-08 | <2.75E-08 |
| WNW0502 | DOWN - C(8) | 7.12 | 895 | 2.5 | <0.010 | <2.14E-09 | 5.51±0.02E-05 | 4.34±0.18E-06 | <2.14E-08 | <2.51E-08 |
| WNW0602 | DOWN - C(1) | 6.14 | 545 | 3.3 | 0.062 | <1.54E-09 | 1.99±0.42E-08 | 6.66±0.26E-06 | <3.66E-08 | <3.35E-08 |
| WNW0602 | DOWN - C(2) | 6.10 | 686 | 2.8 | 0.057 | <4.04E-09 | 6.08±0.64E-08 | 3.23±0.16E-06 | <2.14E-08 | <2.37E-08 |
| WNW0602 | DOWN - C(3) | 6.43 | 692 | 2.3 | 0.013 | <2.70E-09 | 3.13±0.51E-08 | 4.26±0.19E-06 | <3.50E-08 | <3.69E-08 |
| WNW0602 | DOWN - C(4) | 6.40 | 603 | 2.9 | 0.010 | <2.90E-09 | 2.25±0.44E-08 | 5.77±0.23E-06 | <2.27E-08 | <2.42E-08 |
| WNW0602 | DOWN - C(6) | 6.43 | 611 | 2.8 | 0.009 | <3.09E-09 | 2.14±0.43E-08 | 7.59±0.19E-06 | <3.16E-08 | <3.68E-08 |
| WNW0602 | DOWN - C(7) | 6.65 | 597 | 3.1 | 0.011 | <3.86E-09 | 1.01±0.35E-08 | 9.75±0.34E-06 | <2.64E-08 | <2.75E-08 |
| WNW0602 | DOWN - C(5) | 6.35 | 615 | 3.1 | 0.011 | <4.41E-09 | 1.62±0.38E-08 | 8.22±0.30E-06 | <2.64E-08 | <2.75E-08 |
| WNW0602 | DOWN - C(8) | 6.23 | 580 | 3.3 | 0.016 | <3.16E-09 | 3.77±0.51E-08 | 3.63±0.17E-06 | <2.14E-08 | <2.51E-08 |
| WNW0603 | DOWN - C(1) | 6.02 | 802 | 2.3 | <0.004 | <4.19E-09 | 9.15±3.58E-09 | 2.92±0.81E-07 | <2.31E-08 | <1.92E-08 |
| WNW0603 | DOWN - C(2) | 6.09 | 702 | 1.5 | <0.004 | <2.75E-09 | 8.55±4.36E-09 | <7.81E-08 | <3.43E-08 | <3.11E-08 |
| WNW0603 | DOWN - C(3) | 6.50 | 714 | 1.6 | <0.004 | <3.02E-09 | 1.22±0.46E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0603 | DOWN - C(4) | 6.10 | 697 | 1.5 | <0.005 | <3.81E-09 | 1.04±0.36E-08 | <6.28E-08 | <3.50E-08 | <3.69E-08 |
| WNW0603 | DOWN - C(6) | 6.23 | 770 | 1.5 | <0.004 | <3.01E-09 | 7.66±3.37E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0603 | DOWN - C(7) | 6.56 | 933 | 1.1 | <0.004 | <5.95E-09 | 4.99±3.36E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0603 | DOWN - C(5) | 6.18 | 909 | 1.4 | <0.004 | <5.09E-09 | 9.98±3.36E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0603 | DOWN - C(8) | 6.32 | 911 | 1.4 | <0.004 | <5.07E-09 | 6.22±2.98E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0604 | DOWN - C(1) | 6.02 | 541 | 3.9 | 0.016 | <2.01E-09 | 3.26±2.75E-09 | <8.18E-08 | <2.14E-08 | <2.37E-08 |
| WNW0604 | DOWN - C(2) | 6.01 | 528 | 3.3 | 0.007 | <1.81E-09 | 4.97±2.58E-09 | <1.00E-07 | <2.78E-08 | <2.74E-08 |
| WNW0604 | DOWN - C(3) | 6.38 | 503 | 3.5 | 0.006 | 2.65±2.45E-09 | <2.59E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0604 | DOWN - C(4) | 6.09 | 496 | 3.4 | 0.010 | <2.03E-09 | <2.68E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0604 | DOWN - C(6) | 6.19 | 495 | 3.3 | <0.004 | <2.63E-09 | 3.44±2.81E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0604 | DOWN - C(7) | 6.29 | 508 | 3.5 | 0.007 | <2.29E-09 | <2.59E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0604 | DOWN - C(5) | 6.05 | 501 | 3.3 | <0.004 | <3.12E-09 | 3.62±2.53E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0604 | DOWN - C(8) | 6.07 | 502 | 3.6 | <0.004 | <2.21E-09 | 4.44±2.56E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8605 | DOWN - C(1) | 6.39 | 1035 | 10.3 | 0.035 | 1.72±1.18E-08 | 4.42±0.02E-05 | 1.69±0.06E-05 | <3.66E-08 | <3.55E-08 |
| WNW8605 | DOWN - C(2) | 6.44 | 1161 | 11.9 | 0.019 | 2.19±1.28E-08 | 4.42±0.02E-05 | 1.74±0.06E-05 | <3.43E-08 | <3.11E-08 |
| WNW8605 | DOWN - C(3) | 6.51 | 899 | 10.5 | 0.043 | 3.18±1.46E-08 | 3.36±0.01E-05 | 8.70±0.32E-06 | <3.50E-08 | <3.69E-08 |
| WNW8605 | DOWN - C(4) | 6.52 | 1068 | 11.2 | 0.062 | 2.07±1.60E-08 | 3.87±0.02E-05 | 1.07±0.04E-05 | <2.27E-08 | <2.42E-08 |
| WNW8605 | DOWN - C(6) | 6.53 | 1110 | 13.3 | 0.033 | 1.30±0.85E-08 | 3.66±0.02E-05 | 1.26±0.04E-05 | <2.14E-08 | <2.51E-08 |
| WNW8605 | DOWN - C(7) | 6.33 | 1078 | 13.4 | 0.037 | <5.93E-09 | 3.52±0.01E-05 | 1.52±0.05E-05 | <2.64E-08 | <2.75E-08 |
| WNW8605 | DOWN - C(5) | 6.79 | 721 | 9.1 | 0.018 | 5.55±3.84E-09 | 2.53±0.01E-05 | 5.97±0.23E-06 | <2.14E-08 | <2.51E-08 |
| WNW8605 | DOWN - C(8) | 6.49 | 835 | 10.8 | 0.026 | 1.09±0.59E-08 | 3.28±0.02E-05 | 1.02±0.03E-05 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|--------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW8606 | DOWN - C(1) | 6.12 | 2555 | 2.9 | 0.029 | <6.98E-09 | <7.58E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW8606 | DOWN - C(2) | 6.44 | 3290 | 3.2 | 0.031 | <2.50E-08 | 1.05±0.57E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8606 | DOWN - C(3) | 6.25 | 4870 | 2.6 | 0.099 | <1.27E-08 | 1.02±0.94E-08 | <1.00E-07 | <2.88E-08 | <3.06E-08 |
| WNW8606 | DOWN - C(4) | 6.37 | 6140 | 4.1 | 0.028 | <1.42E-08 | 1.61±1.28E-08 | 1.91±0.80E-07 | <3.50E-08 | <3.69E-08 |
| WNW8606 | DOWN - C(6) | 6.50 | 4880 | 6.2 | 0.088 | <1.96E-08 | <1.11E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8606 | DOWN - C(7) | 6.61 | 3605 | 6.7 | 0.101 | <1.41E-08 | <1.08E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8606 | DOWN - C(5) | 6.77 | 2900 | 5.7 | 0.105 | <9.62E-09 | 1.01±1.01E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8606 | DOWN - C(8) | 6.70 | 205* | 3.9 | 0.061 | <1.13E-08 | 1.57±1.01E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8607 | DOWN - C(1) | 5.89 | 673 | 1.3 | <0.004 | <1.68E-09 | 7.27±3.25E-09 | <8.12E-08 | <3.66E-08 | <3.35E-08 |
| WNW8607 | DOWN - C(2) | 6.16 | 604 | 1.1 | <0.004 | <2.57E-09 | 5.01±2.61E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW8607 | DOWN - C(3) | 6.04 | 754 | 1.0 | <0.004 | <1.49E-09 | 7.16±3.26E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8607 | DOWN - C(4) | 6.12 | 671 | 1.3 | <0.005 | <2.44E-09 | 8.92±3.25E-09 | <7.50E-08 | <3.50E-08 | <3.69E-08 |
| WNW8607 | DOWN - C(6) | 6.51 | 781 | 1.2 | <0.004 | <4.02E-09 | 9.07±3.33E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8607 | DOWN - C(7) | 6.59 | 744 | 1.3 | <0.004 | <3.20E-09 | 8.66±3.21E-09 | <7.24E-08 | <2.05E-08 | <2.12E-08 |
| WNW8607 | DOWN - C(5) | 6.37 | 677 | 1.2 | <0.004 | <4.03E-09 | 4.33±2.94E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW8607 | DOWN - C(8) | 6.22 | 606 | 1.1 | <0.004 | <2.10E-09 | 6.85±3.17E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8608 | DOWN - C(1) | 6.42 | 675 | 5.4 | 0.008 | <2.72E-09 | 9.72±3.32E-09 | 1.02±0.10E-06 | <2.14E-08 | <2.37E-08 |
| WNW8608 | DOWN - C(2) | 6.58 | 643 | 6.9 | 0.005 | <2.68E-09 | 8.19±3.00E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW8608 | DOWN - C(3) | 6.50 | 645 | 5.2 | 0.008 | <2.31E-09 | 1.11±0.33E-08 | 9.47±0.96E-07 | <3.50E-08 | <3.69E-08 |
| WNW8608 | DOWN - C(4) | 6.33 | 627 | 8.8 | 0.026 | <2.85E-09 | 1.05±0.34E-08 | 3.08±0.88E-07 | <2.27E-08 | <2.42E-08 |
| WNW8608 | DOWN - C(6) | 6.51 | 595 | 5.9 | 0.006 | <3.04E-09 | 1.50±0.37E-08 | 6.24±0.88E-07 | <2.05E-08 | <2.12E-08 |
| WNW8608 | DOWN - C(7) | 6.51 | 566 | 6.0 | 0.009 | <2.17E-09 | 1.24±0.36E-08 | 3.91±0.84E-07 | <2.05E-08 | <2.12E-08 |
| WNW8608 | DOWN - C(5) | 6.37 | 565 | 5.2 | 0.007 | <2.39E-09 | 1.02±0.34E-08 | 4.77±0.86E-07 | <2.14E-08 | <2.51E-08 |
| WNW8608 | DOWN - C(8) | 6.71 | 536 | 5.5 | 0.005 | <2.15E-09 | 1.11±0.32E-08 | 4.65±0.87E-07 | <2.14E-08 | <2.51E-08 |
| WNW8609 | DOWN - C(1) | 6.70 | 721 | 1.9 | 0.011 | <3.71E-09 | 3.39±0.15E-07 | 2.96±0.16E-06 | <2.78E-08 | <2.74E-08 |
| WNW8609 | DOWN - C(2) | 7.10 | 664 | 2.1 | 0.012 | <3.67E-09 | 1.99±0.11E-07 | 1.84±0.12E-06 | <3.43E-08 | <3.11E-08 |
| WNW8609 | DOWN - C(3) | 7.07 | 743 | 1.8 | 0.010 | <2.44E-09 | 3.41±0.15E-07 | 1.66±0.11E-06 | <2.27E-08 | <2.42E-08 |
| WNW8609 | DOWN - C(4) | 6.98 | 756 | 2.1 | 0.010 | <6.38E-09 | 3.50±0.15E-07 | 1.87±0.12E-06 | <3.50E-08 | <3.69E-08 |
| WNW8609 | DOWN - C(6) | 7.01 | 744 | 1.8 | 0.010 | <3.27E-09 | 3.76±0.16E-07 | 1.79±0.12E-06 | <2.27E-08 | <2.42E-08 |
| WNW8609 | DOWN - C(7) | 7.04 | 751 | 2.0 | 0.009 | <4.14E-09 | 3.47±0.15E-07 | 1.67±0.11E-06 | <2.64E-08 | <2.75E-08 |
| WNW8609 | DOWN - C(5) | 7.02 | 742 | 1.9 | 0.011 | <2.09E-09 | 3.35±0.14E-07 | 1.56±0.11E-06 | <2.14E-08 | <2.51E-08 |
| WNW8609 | DOWN - C(8) | 7.10 | 699 | 1.8 | 0.009 | <2.53E-09 | 3.04±0.15E-07 | 1.28±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNDMPNE | DOWN - D(1) | 6.97 | 645 | 4.1 | 0.012 | <2.93E-09 | 2.54±0.12E-07 | 2.72±0.88E-07 | <3.43E-08 | <3.11E-08 |
| WNDMPNE | DOWN - D(2) | 6.55 | 669 | 4.0 | 0.013 | <2.33E-09 | 2.90±0.13E-07 | 2.74±0.85E-07 | <2.27E-08 | <2.42E-08 |
| WNDMPNE | DOWN - D(3) | 7.20 | 637 | 4.0 | 0.013 | <2.64E-09 | 2.91±0.13E-07 | 3.36±0.84E-07 | <2.88E-08 | <3.06E-08 |
| WNDMPNE | DOWN - D(4) | 7.17 | 803 | 3.7 | 0.011 | <3.52E-09 | 5.58±0.19E-07 | 5.96±0.84E-07 | <2.88E-08 | <3.06E-08 |
| WNDMPNE | DOWN - D(6) | 7.02 | 805 | 4.3 | 0.009 | <5.41E-09 | 5.75±0.19E-07 | 3.98±0.86E-07 | <3.50E-08 | <3.69E-08 |
| WNDMPNE | DOWN - D(7) | 6.99 | 741 | 4.0 | 0.006 | <3.26E-09 | 4.87±0.17E-07 | 2.97±0.83E-07 | <2.05E-08 | <2.12E-08 |
| WNDMPNE | DOWN - D(5) | 7.01 | 608 | 4.6 | 0.010 | <2.39E-09 | 4.25±0.16E-07 | 2.90±0.84E-07 | <2.14E-08 | <2.51E-08 |
| WNDMPNE | DOWN - D(8) | 7.35 | 457 | 4.5 | 0.009 | <1.92E-09 | 2.63±0.12E-07 | 1.13±0.80E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

** Apparent analytical outlier*

Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity µmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha µCi/mL | Gross Beta µCi/mL | Tritium µCi/mL | Cs-137 µCi/mL | Co-60 µCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNGSEEP | DOWN - D(1) | 6.02 | 548 | 1.3 | 0.008 | <9.72E-10 | 6.78±3.19E-09 | 9.12±0.92E-07 | <2.14E-08 | <2.37E-08 |
| WNGSEEP | DOWN - D(2) | 5.98 | 571 | 1.7 | 0.010 | <1.08E-09 | 5.68±2.96E-09 | 7.04±0.88E-07 | <2.27E-08 | <2.42E-08 |
| WNGSEEP | DOWN - D(3) | 6.37 | 548 | 1.3 | 0.006 | <1.71E-09 | <2.62E-09 | 7.17±0.88E-07 | <2.27E-08 | <2.42E-08 |
| WNGSEEP | DOWN - D(4) | 6.35 | 589 | 1.3 | 0.007 | <2.24E-09 | 3.80±2.93E-09 | 7.16±0.84E-07 | <3.50E-08 | <3.69E-08 |
| WNGSEEP | DOWN - D(6) | 6.29 | 610 | 1.4 | 0.007 | <2.97E-09 | 9.52±3.31E-09 | 4.97±0.85E-07 | <2.05E-08 | <2.12E-08 |
| WNGSEEP | DOWN - D(7) | 6.29 | 630 | 1.3 | 0.008 | <2.02E-09 | 5.26±2.78E-09 | 5.33±0.85E-07 | <3.16E-08 | <3.68E-08 |
| WNGSEEP | DOWN - D(5) | 6.10 | 612 | 1.4 | 0.009 | <2.75E-09 | 3.52±2.90E-09 | 5.31±0.84E-07 | <2.64E-08 | <2.75E-08 |
| WNGSEEP | DOWN - D(8) | 6.62 | 582 | 1.4 | 0.007 | <3.31E-09 | 3.40±2.85E-09 | 4.94±0.83E-07 | <2.14E-08 | <2.51E-08 |
| WNW0105 | DOWN - D(1) | 7.09 | 968 | 1.2 | 0.007 | <6.61E-09 | <2.63E-09 | 1.02±0.10E-06 | <3.66E-08 | <3.35E-08 |
| WNW0105 | DOWN - D(2) | 6.93 | 1006 | 1.2 | 0.019 | <4.35E-09 | 6.11±4.94E-09 | 1.04±0.11E-06 | <3.43E-08 | <3.11E-08 |
| WNW0105 | DOWN - D(3) | 6.87 | 1009 | 1.5 | 0.020 | <4.75E-09 | 6.02±4.26E-09 | 1.08±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0105 | DOWN - D(4) | 6.99 | 1002 | 1.1 | 0.014 | <7.28E-09 | 5.37±3.22E-09 | 1.18±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW0105 | DOWN - D(6) | 6.87 | 1010 | 1.3 | 0.012 | <7.83E-09 | 5.18±3.49E-09 | 1.10±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW0105 | DOWN - D(7) | 6.92 | 1032 | 1.2 | 0.006 | <7.05E-09 | 7.04±3.51E-09 | 9.22±0.90E-07 | <3.16E-08 | <3.68E-08 |
| WNW0105 | DOWN - D(5) | 6.83 | 1045 | 1.3 | 0.010 | <4.60E-09 | 9.88±4.83E-09 | 9.86±0.91E-07 | <2.39E-08 | <2.63E-08 |
| WNW0105 | DOWN - D(8) | 6.83 | 1058 | 1.3 | 0.010 | <5.25E-09 | <4.16E-09 | 8.54±0.95E-07 | <2.64E-08 | <2.75E-08 |
| WNW0106 | DOWN - D(1) | 7.00 | 1057 | 3.0 | 0.007 | <6.43E-09 | 1.34±0.60E-08 | 1.94±0.13E-06 | <2.14E-08 | <2.37E-08 |
| WNW0106 | DOWN - D(2) | 6.73 | 1056 | 1.4 | 0.011 | <4.25E-09 | 1.09±0.55E-08 | 1.51±0.12E-06 | <2.14E-08 | <2.37E-08 |
| WNW0106 | DOWN - D(3) | 6.82 | 1053 | 1.7 | 0.012 | <5.35E-09 | 8.96±4.38E-09 | 1.34±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0106 | DOWN - D(4) | 6.88 | 984 | 1.8 | 0.022 | <3.30E-09 | 5.00±4.13E-09 | 2.75±0.15E-06 | <2.27E-08 | <2.42E-08 |
| WNW0106 | DOWN - D(6) | 6.72 | 986 | 1.4 | 0.013 | <2.86E-09 | 5.30±4.53E-09 | 2.21±0.13E-06 | <2.27E-08 | <2.42E-08 |
| WNW0106 | DOWN - D(7) | 6.93 | 1062 | 1.5 | 0.012 | <6.50E-09 | <4.22E-09 | 2.18±0.12E-06 | <3.16E-08 | <3.68E-08 |
| WNW0106 | DOWN - D(5) | 6.84 | 1031 | 1.3 | 0.007 | <6.83E-09 | 4.68±4.35E-09 | 2.46±0.13E-06 | <2.64E-08 | <2.75E-08 |
| WNW0106 | DOWN - D(8) | 6.73 | 1058 | 1.5 | 0.006 | <2.40E-09 | 6.58±4.52E-09 | 1.71±0.12E-06 | <2.64E-08 | <2.75E-08 |
| WNW0116 | DOWN - D(1) | 7.06 | 1024 | 1.6 | 0.022 | <4.18E-09 | 2.65±0.49E-08 | 8.50±0.93E-07 | <2.14E-08 | <2.37E-08 |
| WNW0116 | DOWN - D(2) | 6.98 | 1034 | 2.1 | 0.017 | <3.56E-09 | 5.01±0.67E-08 | 9.66±0.95E-07 | <3.50E-08 | <3.69E-08 |
| WNW0116 | DOWN - D(3) | 6.92 | 996 | 1.4 | 0.014 | <4.14E-09 | 2.41±0.58E-08 | 9.90±0.91E-07 | <2.88E-08 | <3.06E-08 |
| WNW0116 | DOWN - D(4) | 6.41 | 989 | 1.8 | 0.015 | <8.07E-09 | 7.98±0.77E-08 | 1.27±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW0116 | DOWN - D(6) | 6.93 | 1029 | 2.0 | 0.012 | 1.04±0.96E-08 | 1.10±0.09E-07 | 1.04±0.09E-06 | <2.27E-08 | <2.42E-08 |
| WNW0116 | DOWN - D(7) | 7.21 | 1053 | 1.7 | 0.013 | <5.73E-09 | 9.85±1.00E-08 | 9.15±0.89E-07 | <2.05E-08 | <2.12E-08 |
| WNW0116 | DOWN - D(5) | 6.75 | 1059 | 1.6 | 0.015 | <3.71E-09 | 10.0±1.02E-08 | 8.74±0.89E-07 | <2.64E-08 | <2.75E-08 |
| WNW0116 | DOWN - D(8) | 6.85 | 1030 | 1.9 | 0.008 | <5.40E-09 | 3.61±0.68E-08 | 9.75±0.92E-07 | <2.64E-08 | <2.75E-08 |
| WNW0207 | DOWN - D(1) | 6.18 | 723 | 4.0 | 0.008 | <3.04E-09 | <4.70E-09 | <7.93E-08 | <2.31E-08 | <1.92E-08 |
| WNW0207 | DOWN - D(2) | 6.27 | 888 | 3.5 | 0.008 | <3.87E-09 | 6.09±4.58E-09 | 8.93±7.87E-08 | <2.14E-08 | <2.37E-08 |
| WNW0207 | DOWN - D(3) | 6.35 | 834 | 1.9 | 0.009 | <3.95E-09 | <5.02E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0207 | DOWN - D(4) | 6.50 | 974 | 2.7 | 0.005 | <3.96E-09 | <4.01E-09 | 1.57±0.76E-07 | <2.27E-08 | <2.42E-08 |
| WNW0207 | DOWN - D(6) | 6.53 | 927 | 2.4 | 0.007 | <7.26E-09 | 3.65±3.18E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0207 | DOWN - D(7) | 6.59 | 880 | 2.6 | 0.004 | <4.98E-09 | <2.92E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0207 | DOWN - D(5) | 6.45 | 758 | 3.8 | 0.006 | <6.05E-09 | <2.59E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0207 | DOWN - D(8) | 6.54 | 753 | 3.0 | 0.006 | <3.31E-09 | 6.05±2.90E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 1 (continued)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity $\mu\text{mhos/cm}25\text{C}$ | TOC mg/L | TOX mg/L | Gross Alpha $\mu\text{Ci/mL}$ | Gross Beta $\mu\text{Ci/mL}$ | Tritium $\mu\text{Ci/mL}$ | Cs-137 $\mu\text{Ci/mL}$ | Co-60 $\mu\text{Ci/mL}$ |
|---------------|--------------------|------|--|----------|----------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|
| WNW0601 | DOWN - D(1) | 6.23 | 490 | 2.0 | 0.020 | 2.45±1.96E-09 | 2.14±0.11E-07 | 3.85±0.84E-07 | <2.14E-08 | <2.37E-08 |
| WNW0601 | DOWN - D(2) | 6.45 | 580 | 3.4 | 0.014 | <1.81E-09 | 2.44±0.12E-07 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0601 | DOWN - D(3) | 6.93 | 499 | 3.2 | 0.017 | <1.27E-09 | 2.06±0.11E-07 | <7.43E-08 | <2.27E-08 | <2.42E-08 |
| WNW0601 | DOWN - D(4) | 6.25 | 424 | 5.5 | 0.025 | <1.76E-09 | 1.69±0.10E-07 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0601 | DOWN - D(6) | 6.22 | 426 | 4.8 | 0.012 | <1.88E-09 | 1.70±0.10E-07 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0601 | DOWN - D(7) | 6.30 | 459 | 3.7 | 0.011 | <1.52E-09 | 1.84±0.10E-07 | <6.61E-08 | <2.64E-08 | <2.75E-08 |
| WNW0601 | DOWN - D(5) | 6.26 | 372 | 4.3 | 0.010 | <2.06E-09 | 1.32±0.09E-07 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0601 | DOWN - D(8) | 6.26 | 380 | 3.8 | 0.012 | <2.33E-09 | 1.50±0.09E-07 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0605 | DOWN - D(1) | 6.39 | 498 | 3.4 | 0.028 | <1.83E-09 | 2.56±0.12E-07 | 1.33±0.80E-07 | <2.31E-08 | <1.92E-08 |
| WNW0605 | DOWN - D(2) | 6.57 | 594 | 2.7 | 0.009 | <1.67E-09 | 2.80±0.13E-07 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0605 | DOWN - D(3) | 6.94 | 510 | 3.1 | 0.011 | <1.38E-09 | 2.24±0.11E-07 | <7.42E-08 | <2.27E-08 | <2.42E-08 |
| WNW0605 | DOWN - D(4) | 6.45 | 443 | 3.8 | 0.021 | <1.78E-09 | 2.14±0.11E-07 | 9.74±7.98E-08 | <3.50E-08 | <3.69E-08 |
| WNW0605 | DOWN - D(6) | 6.55 | 485 | 3.1 | 0.007 | <1.66E-09 | 1.92±0.11E-07 | <7.36E-08 | <2.05E-08 | <2.12E-08 |
| WNW0605 | DOWN - D(7) | 7.14 | 567 | 2.2 | 0.005 | <3.20E-09 | 7.88±0.72E-08 | <7.47E-08 | <2.05E-08 | <2.12E-08 |
| WNW0605 | DOWN - D(5) | 6.36 | 402 | 2.7 | 0.008 | <2.30E-09 | 1.62±0.10E-07 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0605 | DOWN - D(8) | 6.26 | 389 | 3.0 | 0.009 | <1.82E-09 | 1.67±0.10E-07 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0801 | DOWN - D(1) | 6.35 | 935 | 2.2 | 0.006 | <4.08E-09 | 4.17±0.16E-07 | 4.76±0.87E-07 | <3.43E-08 | <3.11E-08 |
| WNW0801 | DOWN - D(2) | 6.55 | 960 | 2.5 | 0.010 | <5.36E-09 | 3.78±0.15E-07 | 5.74±0.86E-07 | <3.50E-08 | <3.69E-08 |
| WNW0801 | DOWN - D(3) | 6.45 | 958 | 1.7 | 0.006 | <3.77E-09 | 4.62±0.20E-07 | 8.08±0.88E-07 | <2.27E-08 | <2.42E-08 |
| WNW0801 | DOWN - D(4) | 6.58 | 1080 | 2.5 | 0.015 | <5.78E-09 | 5.79±0.20E-07 | 7.25±0.86E-07 | <3.50E-08 | <3.69E-08 |
| WNW0801 | DOWN - D(6) | 6.50 | 1097 | 2.7 | 0.009 | <6.76E-09 | 5.24±0.19E-07 | 7.63±0.85E-07 | <2.05E-08 | <2.12E-08 |
| WNW0801 | DOWN - D(7) | 6.71 | 1080 | 2.5 | 0.010 | <6.28E-09 | 5.61±0.19E-07 | 7.21±0.87E-07 | <3.16E-08 | <3.68E-08 |
| WNW0801 | DOWN - D(5) | 6.45 | 1013 | 2.3 | 0.009 | <4.62E-09 | 5.92±0.20E-07 | 8.23±0.88E-07 | <2.14E-08 | <2.51E-08 |
| WNW0801 | DOWN - D(8) | 6.67 | 982 | 2.3 | 0.014 | <3.65E-09 | 5.68±0.23E-07 | 7.46±0.87E-07 | <2.14E-08 | <2.51E-08 |
| WNW0802 | DOWN - D(1) | 6.34 | 249 | 1.3 | 0.008 | <1.10E-09 | <2.36E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0802 | DOWN - D(2) | 6.59 | 347 | 1.2 | 0.005 | <1.86E-09 | <2.46E-09 | 3.58±0.84E-07 | <2.27E-08 | <2.42E-08 |
| WNW0802 | DOWN - D(3) | 6.56 | 266 | 1.3 | 0.011 | <1.34E-09 | <2.29E-09 | 2.21±0.81E-07 | <3.50E-08 | <3.69E-08 |
| WNW0802 | DOWN - D(4) | 7.11 | 593 | 1.4 | 0.006 | <5.59E-09 | <3.81E-09 | 4.12±0.82E-07 | <3.50E-08 | <3.69E-08 |
| WNW0802 | DOWN - D(6) | 6.91 | 722 | 1.4 | <0.004 | <3.36E-09 | <2.66E-09 | 7.19±0.85E-07 | <2.05E-08 | <2.12E-08 |
| WNW0802 | DOWN - D(7) | 6.88 | 792 | 1.5 | 0.005 | <4.44E-09 | <2.51E-09 | 5.82±0.83E-07 | <2.14E-08 | <2.51E-08 |
| WNW0802 | DOWN - D(5) | 6.35 | 285 | 1.5 | <0.004 | <1.48E-09 | <2.22E-09 | 1.63±0.79E-07 | <2.64E-08 | <2.75E-08 |
| WNW0802 | DOWN - D(8) | 6.60 | 287 | 1.4 | 0.004 | <1.34E-09 | <2.34E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0803 | DOWN - D(1) | 6.61 | 1082 | 1.1 | 0.009 | <2.18E-09 | 6.08±4.53E-09 | 1.34±0.11E-06 | <3.43E-08 | <3.11E-08 |
| WNW0803 | DOWN - D(2) | 6.69 | 1190 | 1.8 | 0.010 | <5.86E-09 | 9.47±4.06E-09 | 1.23±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0803 | DOWN - D(3) | 6.73 | 1300 | 2.2 | 0.014 | <7.16E-09 | 2.41±0.61E-08 | 1.26±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW0803 | DOWN - D(4) | 6.73 | 1183 | 1.6 | 0.013 | <1.09E-08 | 9.66±3.93E-09 | 1.50±0.11E-06 | <2.27E-08 | <2.42E-08 |
| WNW0803 | DOWN - D(6) | 6.71 | 1174 | 1.5 | 0.009 | <6.69E-09 | 1.07±0.38E-08 | 1.39±0.10E-06 | <2.05E-08 | <2.12E-08 |
| WNW0803 | DOWN - D(7) | 6.75 | 1177 | 1.5 | 0.015 | <5.92E-09 | 9.31±3.56E-09 | 1.13±0.09E-06 | <3.16E-08 | <3.68E-08 |
| WNW0803 | DOWN - D(5) | 6.57 | 1176 | 1.6 | 0.006 | <4.34E-09 | 5.93±4.62E-09 | 1.17±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0803 | DOWN - D(8) | 6.83 | 1190 | 1.7 | 0.012 | <4.85E-09 | 8.69±4.83E-09 | 1.12±0.09E-06 | <2.39E-08 | <2.63E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 1 (concluded)
Contamination Indicator Parameters for the Sand and Gravel Unit

| Location Code | Hydraulic Position | pH | Conductivity $\mu\text{mhos/cm}25\text{C}$ | TOC mg/L | TOX mg/L | Gross Alpha $\mu\text{Ci/mL}$ | Gross Beta $\mu\text{Ci/mL}$ | Tritium $\mu\text{Ci/mL}$ | Cs-137 $\mu\text{Ci/mL}$ | Co-60 $\mu\text{Ci/mL}$ |
|---------------|--------------------|------|--|----------|----------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|
| WNW0804 | DOWN - D(1) | 6.38 | 617 | 1.8 | 0.009 | <2.67E-09 | 2.59±0.46E-08 | 1.63±0.83E-07 | <2.14E-08 | <2.37E-08 |
| WNW0804 | DOWN - D(2) | 6.67 | 658 | 1.6 | 0.010 | <2.94E-09 | 2.17±0.42E-08 | 2.13±0.80E-07 | <2.27E-08 | <2.42E-08 |
| WNW0804 | DOWN - D(3) | 6.58 | 684 | 1.6 | 0.011 | <1.76E-09 | 2.40±0.44E-08 | 3.58±0.83E-07 | <2.27E-08 | <2.42E-08 |
| WNW0804 | DOWN - D(4) | 6.87 | 734 | 2.1 | 0.012 | <3.59E-09 | 6.52±0.69E-08 | 3.02±0.80E-07 | <2.27E-08 | <2.42E-08 |
| WNW0804 | DOWN - D(6) | 6.45 | 731 | 2.4 | 0.009 | <3.34E-09 | 3.29±0.51E-08 | 9.85±7.80E-08 | <3.16E-08 | <3.68E-08 |
| WNW0804 | DOWN - D(7) | 6.51 | 767 | 2.6 | 0.009 | <2.49E-09 | 3.94±0.54E-08 | 1.31±0.79E-07 | <3.16E-08 | <3.68E-08 |
| WNW0804 | DOWN - D(5) | 6.32 | 665 | 2.3 | 0.012 | <3.54E-09 | 3.56±0.53E-08 | 2.25±0.80E-07 | <2.14E-08 | <2.51E-08 |
| WNW0804 | DOWN - D(8) | 6.57 | 713 | 2.2 | 0.006 | <3.07E-09 | 2.74±0.53E-08 | 3.16±0.81E-07 | <2.64E-08 | <2.75E-08 |
| WNW8603 | DOWN - D(1) | 6.98 | 1020 | 0.7 | 0.021 | <3.83E-09 | 2.91±0.62E-08 | 8.24±0.92E-07 | <3.43E-08 | <3.11E-08 |
| WNW8603 | DOWN - D(2) | 7.22 | 1026 | 0.6 | 0.005 | <4.44E-09 | 1.93±0.63E-08 | 6.73±0.89E-07 | <3.43E-08 | <3.11E-08 |
| WNW8603 | DOWN - D(3) | 7.01 | 1044 | 1.1 | 0.008 | <3.52E-09 | 2.98±0.75E-08 | 9.14±0.88E-07 | <2.27E-08 | <2.42E-08 |
| WNW8603 | DOWN - D(4) | 7.16 | 1029 | 0.7 | 0.010 | <3.61E-09 | 3.10±0.77E-08 | 9.20±0.91E-07 | <2.27E-08 | <2.42E-08 |
| WNW8603 | DOWN - D(6) | 7.07 | 1035 | 0.6 | 0.007 | <5.30E-09 | 4.26±0.82E-08 | 9.13±0.90E-07 | <2.27E-08 | <2.42E-08 |
| WNW8603 | DOWN - D(7) | 7.13 | 1092 | 0.7 | 0.006 | <5.46E-09 | 4.40±0.83E-08 | 7.33±0.85E-07 | <2.05E-08 | <2.12E-08 |
| WNW8603 | DOWN - D(5) | 7.12 | 1103 | 0.6 | 0.012 | <5.11E-09 | 4.29±0.81E-08 | 8.69±0.88E-07 | <2.14E-08 | <2.51E-08 |
| WNW8603 | DOWN - D(8) | 6.91 | 1144 | 0.8 | 0.005 | <5.77E-09 | 4.62±0.85E-08 | 6.64±0.86E-07 | <2.39E-08 | <2.63E-08 |
| WNW8604 | DOWN - D(1) | 6.96 | 1035 | 2.3 | 0.013 | <2.06E-09 | 1.50±0.03E-06 | 1.39±0.11E-06 | <3.66E-08 | <3.35E-08 |
| WNW8604 | DOWN - D(2) | 7.18 | 1056 | 1.1 | 0.011 | <4.20E-09 | 2.43±0.03E-06 | 1.14±0.10E-06 | <3.43E-08 | <3.11E-08 |
| WNW8604 | DOWN - D(3) | 7.02 | 1119 | 1.0 | 0.028 | <4.90E-09 | 3.18±0.06E-06 | 8.32±0.87E-07 | <3.50E-08 | <3.69E-08 |
| WNW8604 | DOWN - D(4) | 7.20 | 1108 | 1.4 | 0.038 | <5.01E-09 | 3.55±0.06E-06 | 9.83±0.94E-07 | <3.50E-08 | <3.69E-08 |
| WNW8604 | DOWN - D(6) | 7.33 | 1180 | 1.9 | 0.015 | <3.72E-09 | 3.80±0.06E-06 | 8.29±0.87E-07 | <2.64E-08 | <2.75E-08 |
| WNW8604 | DOWN - D(7) | 7.02 | 1161 | 2.2 | <0.010 | <5.98E-09 | 3.97±0.06E-06 | 1.01±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW8604 | DOWN - D(5) | 7.11 | 1150 | 1.6 | 0.011 | <3.01E-09 | 3.90±0.06E-06 | 1.00±0.09E-06 | <2.14E-08 | <2.51E-08 |
| WNW8604 | DOWN - D(8) | 7.23 | 1125 | 1.3 | <0.010 | <2.95E-09 | 4.15±0.06E-06 | 1.02±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW8612 | DOWN - D(1) | 6.99 | 787 | 0.6 | 0.015 | <3.96E-09 | <2.76E-09 | 2.09±0.13E-06 | <2.14E-08 | <2.37E-08 |
| WNW8612 | DOWN - D(2) | 6.81 | 815 | 0.6 | 0.019 | <5.24E-09 | <2.55E-09 | 1.86±0.12E-06 | <2.27E-08 | <2.42E-08 |
| WNW8612 | DOWN - D(3) | 7.29 | 819 | 0.6 | 0.025 | <3.90E-09 | <3.72E-09 | 2.24±0.13E-06 | <3.50E-08 | <3.69E-08 |
| WNW8612 | DOWN - D(4) | 7.18 | 832 | 0.6 | 0.019 | <4.30E-09 | 4.09±3.16E-09 | 1.97±0.12E-06 | <3.50E-08 | <3.69E-08 |
| WNW8612 | DOWN - D(6) | 7.22 | 829 | 0.8 | 0.026 | <3.79E-09 | <2.72E-09 | 2.01±0.12E-06 | <2.05E-08 | <2.12E-08 |
| WNW8612 | DOWN - D(7) | 7.24 | 828 | 0.8 | 0.023 | <3.88E-09 | 3.01±2.60E-09 | 1.95±0.12E-06 | <2.05E-08 | <2.12E-08 |
| WNW8612 | DOWN - D(5) | 7.25 | 832 | 0.8 | 0.024 | <4.16E-09 | <2.75E-09 | 1.88±0.11E-06 | <2.14E-08 | <2.51E-08 |
| WNW8612 | DOWN - D(8) | 7.25 | 836 | 0.8 | 0.024 | <3.65E-09 | <3.34E-09 | 1.78±0.11E-06 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 2
Contamination Indicator Parameters for the Till-Sand Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|-------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0302 | UP(1) | 6.83 | 1350 | 0.7 | 0.010 | <4.88E-09 | <4.42E-09 | 1.11±0.80E-07 | <2.14E-08 | <2.37E-08 |
| WNW0302 | UP(2) | 6.90 | 1396 | 0.8 | 0.017 | <2.40E-09 | 1.16±0.75E-08 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0302 | UP(3) | 7.05 | 1515 | 0.7 | 0.009 | <5.98E-09 | 1.70±0.91E-08 | <7.10E-08 | <3.50E-08 | <3.69E-08 |
| WNW0302 | UP(4) | 6.83 | 1684 | 0.8 | 0.008 | <4.98E-09 | <5.10E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0302 | UP(6) | 6.96 | 1687 | 0.6 | 0.004 | <9.92E-09 | <4.99E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0302 | UP(7) | 6.90 | 1643 | 0.7 | 0.012 | <5.92E-09 | <5.67E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0302 | UP(5) | 6.79 | 1629 | 0.8 | 0.008 | <5.55E-09 | <4.99E-09 | <1.00E-07 | <2.39E-08 | <2.63E-08 |
| WNW0302 | UP(8) | 6.82 | 1612 | 0.7 | 0.010 | <6.52E-09 | <7.03E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0402 | UP(1) | 6.87 | 1201 | 0.6 | 0.007 | <3.73E-09 | <4.86E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0402 | UP(2) | 7.11 | 1131 | 0.5 | 0.011 | <4.45E-09 | 1.06±0.69E-08 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0402 | UP(3) | 7.27 | 1146 | 0.6 | 0.010 | <6.27E-09 | 8.13±5.82E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0402 | UP(4) | 7.04 | 1193 | 0.5 | 0.014 | <5.71E-09 | <4.51E-09 | 1.80±0.80E-07 | <3.50E-08 | <3.69E-08 |
| WNW0402 | UP(6) | 7.17 | 1164 | 0.5 | 0.011 | <8.76E-09 | <4.92E-09 | <7.67E-08 | <3.50E-08 | <3.69E-08 |
| WNW0402 | UP(7) | 7.08 | 1191 | 0.5 | 0.006 | <6.46E-09 | <5.22E-09 | <7.95E-08 | <2.05E-08 | <2.12E-08 |
| WNW0402 | UP(5) | 6.94 | 1204 | 0.6 | 0.010 | <6.38E-09 | <5.04E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0402 | UP(8) | 6.89 | 1247 | 0.5 | <0.004 | <6.65E-09 | <4.63E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0404 | UP(1) | 7.71 | 239 | 0.4 | <0.004 | <1.84E-09 | <2.34E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0404 | UP(2) | 7.81 | 260 | 0.4 | <0.004 | <1.73E-09 | <2.31E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0404 | UP(3) | 7.95 | 269 | 0.4 | <0.004 | <2.26E-09 | <3.30E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0404 | UP(4) | 7.68 | 256 | 0.3 | <0.004 | <1.22E-09 | <2.20E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0404 | UP(6) | 7.86 | 269 | 0.3 | <0.004 | <1.77E-09 | <2.18E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0404 | UP(7) | 7.68 | 267 | 0.4 | <0.004 | <1.50E-09 | <2.56E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0404 | UP(5) | 7.36 | 276 | 0.4 | <0.004 | <1.30E-09 | 3.56±2.46E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0404 | UP(8) | 7.81 | 265 | 0.4 | <0.004 | <1.87E-09 | 3.42±2.47E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0202 | DOWN - B(1) | 11.71 | 1935 | 1.2 | 0.009 | <3.08E-09 | 3.86±0.66E-08 | <8.12E-08 | <3.66E-08 | <3.35E-08 |
| WNW0202 | DOWN - B(2) | 10.67 | 1216 | 1.2 | <0.004 | <4.80E-09 | 2.75±0.48E-08 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0202 | DOWN - B(3) | 11.59 | 1174 | 0.8 | 0.004 | <2.42E-09 | 2.34±0.44E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0202 | DOWN - B(4) | 11.54 | 1087 | 1.0 | <0.005 | <1.89E-08 | 3.34±0.61E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0202 | DOWN - B(6) | 7.37 | 969 | 0.8 | <0.004 | <3.37E-09 | 1.05±0.44E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0202 | DOWN - B(7) | 10.59 | 990 | 0.9 | <0.004 | <2.48E-09 | 1.63±0.50E-08 | <9.01E-08 | <3.16E-08 | <3.68E-08 |
| WNW0202 | DOWN - B(5) | 11.76 | 763 | 0.8 | <0.004 | <5.66E-09 | 1.53±0.49E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0202 | DOWN - B(8) | 11.45 | 789 | 0.8 | 0.005 | <2.78E-09 | 1.91±0.49E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0204 | DOWN - B(1) | 8.29 | 532 | 0.6 | 0.007 | <2.81E-09 | 6.28±3.21E-09 | 2.31±0.92E-07 | <2.98E-08 | <2.64E-08 |
| WNW0204 | DOWN - B(2) | 7.81 | 544 | 0.5 | 0.012 | <2.34E-09 | 4.76±2.86E-09 | <7.96E-08 | <2.27E-08 | <2.42E-08 |
| WNW0204 | DOWN - B(3) | 8.39 | 545 | 0.4 | 0.005 | <2.07E-09 | 4.73±2.93E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0204 | DOWN - B(4) | 8.47 | 527 | 0.5 | 0.007 | <2.41E-09 | 2.82±2.64E-09 | 1.29±0.80E-07 | <2.27E-08 | <2.42E-08 |
| WNW0204 | DOWN - B(6) | 8.41 | 560 | 0.5 | <0.004 | <2.00E-09 | 5.29±2.79E-09 | <7.63E-08 | <2.05E-08 | <2.12E-08 |
| WNW0204 | DOWN - B(7) | 7.80 | 585 | 0.6 | <0.004 | <2.22E-09 | 3.81±2.91E-09 | <7.28E-08 | <3.16E-08 | <3.68E-08 |
| WNW0204 | DOWN - B(5) | 8.38 | 596 | 0.5 | <0.004 | <3.42E-09 | 2.70±2.49E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0204 | DOWN - B(8) | 8.12 | 595 | 0.6 | 0.011 | <2.91E-09 | 2.65±2.42E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 2 (concluded)
Contamination Indicator Parameters for the Till-Sand Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0206 | DOWN - B(1) | 7.31 | 577 | 0.8 | 0.010 | 2.08±2.04E-09 | <2.45E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW0206 | DOWN - B(2) | 7.08 | 609 | 0.7 | 0.004 | <2.65E-09 | <2.27E-09 | 8.21±7.90E-08 | <2.27E-08 | <2.42E-08 |
| WNW0206 | DOWN - B(3) | 7.45 | 607 | 0.9 | 0.005 | 3.95±3.32E-09 | <2.68E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0206 | DOWN - B(4) | 7.54 | 604 | 0.7 | <0.005 | <2.64E-09 | 3.45±2.61E-09 | <7.55E-08 | <2.27E-08 | <2.42E-08 |
| WNW0206 | DOWN - B(6) | 7.56 | 621 | 0.6 | 0.006 | <2.77E-09 | <2.58E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0206 | DOWN - B(7) | 7.42 | 622 | 0.7 | <0.004 | <2.27E-09 | <2.72E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0206 | DOWN - B(5) | 7.63 | 631 | 0.6 | <0.004 | <3.70E-09 | <2.30E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0206 | DOWN - B(8) | 7.63 | 162* | 0.6 | 0.004 | <2.87E-09 | <2.41E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0208 | DOWN - B(1) | 7.43 | 315 | 0.8 | <0.004 | <2.12E-09 | 2.44±2.34E-09 | <1.00E-07 | <2.31E-08 | 2.67±0.54E-08 |
| WNW0208 | DOWN - B(2) | 7.21 | 327 | 0.7 | <0.004 | 2.11±1.69E-09 | 4.50±2.53E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0208 | DOWN - B(3) | 7.65 | 316 | 0.4 | <0.004 | <1.71E-09 | <2.52E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0208 | DOWN - B(4) | 7.74 | 310 | 0.7 | <0.004 | <2.09E-09 | 3.57±2.40E-09 | <1.00E-07 | <2.88E-08 | <3.06E-08 |
| WNW0208 | DOWN - B(6) | 7.77 | 324 | 0.6 | <0.004 | <2.37E-09 | <2.24E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0208 | DOWN - B(7) | 7.50 | 315 | 0.9 | <0.004 | 3.53±2.77E-09 | <2.62E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0208 | DOWN - B(5) | 7.86 | 317 | 0.6 | <0.004 | <1.52E-09 | <2.21E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0208 | DOWN - B(8) | 7.80 | 321 | 0.6 | <0.004 | <1.55E-09 | 3.07±2.35E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0701 | DOWN - B(1) | 7.18 | 853 | 0.7 | 0.005 | <3.75E-09 | <2.64E-09 | <1.00E-07 | <2.98E-08 | <2.64E-08 |
| WNW0701 | DOWN - B(2) | 6.77 | 802 | 1.5 | <0.004 | <1.87E-09 | <2.66E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0701 | DOWN - B(3) | 7.25 | 791 | 0.6 | <0.004 | <4.72E-09 | <2.64E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0701 | DOWN - B(4) | 7.38 | 798 | 0.7 | <0.004 | <4.10E-09 | <2.62E-09 | <7.56E-08 | <2.27E-08 | <2.42E-08 |
| WNW0701 | DOWN - B(6) | 7.05 | 843 | 0.6 | <0.004 | <3.30E-09 | <2.62E-09 | <6.93E-08 | <3.50E-08 | <3.69E-08 |
| WNW0701 | DOWN - B(7) | 7.21 | 935 | 0.6 | <0.004 | <4.06E-09 | <2.70E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0701 | DOWN - B(5) | 7.25 | 992 | 0.6 | <0.004 | <6.00E-09 | <2.76E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0701 | DOWN - B(8) | 7.06 | 1007 | 0.6 | <0.004 | <3.81E-09 | <2.92E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0905 | DOWN - B(1) | 6.63 | 1651 | 1.4 | <0.004 | <1.30E-08 | <7.56E-09 | 1.20±0.82E-07 | <3.66E-08 | <3.35E-08 |
| WNW0905 | DOWN - B(2) | 6.64 | 1635 | 1.1 | 0.014 | 1.25±1.00E-08 | 7.49±5.45E-09 | 2.51±0.77E-07 | <2.14E-08 | <2.37E-08 |
| WNW0905 | DOWN - B(3) | 6.74 | 1628 | 1.1 | <0.004 | <8.46E-09 | 7.76±5.20E-09 | 3.46±0.79E-07 | <2.27E-08 | <2.42E-08 |
| WNW0905 | DOWN - B(4) | 6.67 | 1629 | 1.0 | <0.004 | <9.90E-09 | 6.59±4.79E-09 | 3.56±0.78E-07 | <3.50E-08 | <3.69E-08 |
| WNW0905 | DOWN - B(6) | 6.74 | 1609 | 1.2 | <0.004 | <8.03E-09 | <5.00E-09 | 3.13±0.84E-07 | <3.16E-08 | <3.68E-08 |
| WNW0905 | DOWN - B(7) | 6.70 | 1617 | 1.1 | <0.004 | <8.07E-09 | 5.56±5.07E-09 | 1.86±0.83E-07 | <2.64E-08 | <2.75E-08 |
| WNW0905 | DOWN - B(5) | 6.89 | 1612 | 1.1 | <0.004 | <8.82E-09 | 9.48±5.54E-09 | 3.10±0.83E-07 | <2.14E-08 | <2.51E-08 |
| WNW0905 | DOWN - B(8) | 6.52 | 1600 | 1.1 | <0.004 | <4.09E-09 | 9.42±6.14E-09 | 2.14±0.81E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

** Apparent analytical outlier*

Table E - 3
Contamination Indicator Parameters for the Unweathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0405 | UP(1) | 6.97 | 843 | 0.7 | 0.004 | <2.18E-09 | 5.19±3.14E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0405 | UP(2) | 7.17 | 816 | 1.4 | <0.004 | <3.06E-09 | 1.77±0.48E-08 | 1.23±0.78E-07 | <3.43E-08 | <3.11E-08 |
| WNW0405 | UP(3) | 7.20 | 964 | 1.2 | 0.005 | <3.12E-09 | 6.34±4.21E-09 | <6.84E-08 | <3.50E-08 | <3.69E-08 |
| WNW0405 | UP(4) | 7.14 | 931 | 1.8 | 0.014 | <5.87E-09 | 1.03±0.36E-08 | 9.81±8.04E-08 | <3.50E-08 | <3.69E-08 |
| WNW0405 | UP(6) | 7.31 | 890 | 1.5 | 0.007 | <5.44E-09 | 9.70±3.42E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0405 | UP(7) | 7.21 | 886 | 1.7 | <0.004 | <3.38E-09 | 9.34±3.55E-09 | <7.57E-08 | <2.64E-08 | <2.75E-08 |
| WNW0405 | UP(5) | 6.98 | 837 | 1.6 | 0.005 | <4.70E-09 | 7.66±3.34E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0405 | UP(8) | 7.24 | 821 | 1.8 | 0.004 | <3.91E-09 | 5.02±2.85E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0704 | UP(1) | 6.30 | 1195 | 19.5 | 0.036 | <3.21E-09 | 1.29±0.52E-08 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW0704 | UP(2) | 6.42 | 1167 | 18.4 | 0.026 | <6.12E-09 | 1.63±0.51E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0704 | UP(3) | 6.39 | 1070 | 17.4 | 0.018 | <6.14E-09 | 2.70±0.95E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0704 | UP(4) | 6.39 | 1112 | 18.2 | 0.020 | 1.02±0.95E-08 | 2.22±0.60E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0704 | UP(6) | 6.90 | 1147 | 19.1 | 0.028 | <8.44E-09 | 2.16±0.50E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0704 | UP(7) | 6.35 | 1163 | 21.8 | 0.024 | <6.46E-09 | 1.93±0.57E-08 | <8.25E-08 | <2.60E-08 | <2.90E-08 |
| WNW0704 | UP(5) | 6.33 | 1162 | 22.0 | 0.043 | <4.97E-09 | 1.42±0.40E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0704 | UP(8) | 6.25 | 1065 | 21.9 | 0.041 | <4.72E-09 | 2.42±0.58E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0707 | UP(1) | 6.57 | 358 | 2.6 | 0.005 | <1.42E-09 | 6.21±2.80E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW0707 | UP(2) | 7.36 | 331 | 2.5 | 0.008 | <1.26E-09 | 5.95±2.67E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0707 | UP(3) | 6.49 | 276 | 1.9 | 0.006 | <1.30E-09 | 5.28±2.72E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0707 | UP(4) | 6.60 | 425 | 2.6 | 0.006 | <2.67E-09 | 3.78±2.82E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0707 | UP(6) | 7.00 | 494 | 2.6 | 0.007 | <1.49E-09 | 4.14±2.87E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0707 | UP(7) | 6.70 | 492 | 2.9 | 0.006 | <2.34E-09 | 5.26±3.03E-09 | <7.69E-08 | <2.05E-08 | <2.12E-08 |
| WNW0707 | UP(5) | 6.48 | 408 | 2.7 | 0.005 | <1.96E-09 | <2.53E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0707 | UP(8) | 6.32 | 330 | 2.8 | 0.006 | <1.11E-09 | 5.52±2.81E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0109 | DOWN - B(1) | 7.15 | 739 | 0.8 | <0.004 | <3.36E-09 | 4.74±2.86E-09 | 4.30±0.85E-07 | <2.14E-08 | <2.37E-08 |
| WNW0109 | DOWN - B(2) | 7.18 | 685 | 0.6 | <0.004 | <2.92E-09 | 3.21±2.73E-09 | 5.43±0.84E-07 | <3.50E-08 | <3.69E-08 |
| WNW0109 | DOWN - B(3) | 7.01 | 670 | 0.7 | <0.004 | <2.53E-09 | <2.58E-09 | 1.17±0.07E-06 | <3.50E-08 | <3.69E-08 |
| WNW0109 | DOWN - B(4) | 7.18 | 616 | 0.6 | 0.006 | <3.84E-09 | <2.45E-09 | 1.05±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0109 | DOWN - B(6) | 7.14 | 620 | 0.5 | <0.004 | <3.05E-09 | 2.80±2.73E-09 | 1.05±0.09E-06 | <2.27E-08 | <2.42E-08 |
| WNW0109 | DOWN - B(7) | 7.22 | 612 | 0.9 | <0.004 | <2.74E-09 | 3.29±2.59E-09 | 1.03±0.09E-06 | <2.05E-08 | <2.12E-08 |
| WNW0109 | DOWN - B(5) | 7.05 | 610 | 0.6 | <0.004 | <2.93E-09 | <2.68E-09 | 1.09±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW0109 | DOWN - B(8) | 7.31 | 597 | 0.6 | <0.004 | <2.92E-09 | 5.03±2.75E-09 | 1.46±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0110 | DOWN - B(1) | 7.23 | 660 | 0.5 | <0.004 | <3.75E-09 | <2.55E-09 | 9.49±0.96E-07 | <2.14E-08 | <2.37E-08 |
| WNW0110 | DOWN - B(2) | 7.18 | 618 | 0.5 | <0.004 | <3.49E-09 | 2.64±2.64E-09 | 8.30±0.92E-07 | <2.27E-08 | <2.42E-08 |
| WNW0110 | DOWN - B(3) | 7.08 | 637 | 0.5 | <0.004 | <3.35E-09 | <2.43E-09 | 1.05±0.09E-06 | <3.50E-08 | <3.69E-08 |
| WNW0110 | DOWN - B(4) | 7.20 | 572 | 0.4 | <0.005 | <2.76E-09 | 2.42±2.40E-09 | 1.13±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW0110 | DOWN - B(6) | 7.17 | 578 | 0.4 | <0.004 | <3.62E-09 | 4.14±2.70E-09 | 1.14±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0110 | DOWN - B(7) | 7.25 | 569 | 0.5 | <0.004 | <3.73E-09 | <2.41E-09 | 1.23±0.10E-06 | <2.05E-08 | <2.12E-08 |
| WNW0110 | DOWN - B(5) | 7.08 | 602 | 0.5 | <0.004 | <3.27E-09 | <2.48E-09 | 1.11±0.09E-06 | <2.64E-08 | <2.75E-08 |
| WNW0110 | DOWN - B(8) | 7.30 | 582 | 0.5 | <0.004 | <3.28E-09 | <2.40E-09 | 1.11±0.09E-06 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 3 (continued)
Contamination Indicator Parameters for the Unweathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity $\mu\text{mhos/cm}25\text{C}$ | TOC mg/L | TOX mg/L | Gross Alpha $\mu\text{Ci/mL}$ | Gross Beta $\mu\text{Ci/mL}$ | Tritium $\mu\text{Ci/mL}$ | Cs-137 $\mu\text{Ci/mL}$ | Co-60 $\mu\text{Ci/mL}$ |
|---------------|--------------------|------|--|----------|----------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|
| WNW0115 | DOWN - B(1) | 7.31 | 580 | 0.6 | <0.004 | <2.78E-09 | 4.22±2.64E-09 | 3.18±0.84E-07 | <3.66E-08 | <3.35E-08 |
| WNW0115 | DOWN - B(2) | 7.41 | 520 | 0.6 | 0.006 | <2.29E-09 | 4.08±2.71E-09 | 3.87±0.82E-07 | <2.14E-08 | <2.37E-08 |
| WNW0115 | DOWN - B(3) | 7.25 | 584 | 0.6 | <0.004 | <2.98E-09 | 5.19±2.71E-09 | 7.79±0.84E-07 | <2.27E-08 | <2.42E-08 |
| WNW0115 | DOWN - B(4) | 7.43 | 492 | 0.5 | 0.027 | <2.58E-09 | 3.80±2.62E-09 | 8.36±0.90E-07 | <3.50E-08 | <3.69E-08 |
| WNW0115 | DOWN - B(6) | 7.39 | 559 | 0.5 | <0.004 | <2.47E-09 | <2.69E-09 | 6.65±0.85E-07 | <2.27E-08 | <2.42E-08 |
| WNW0115 | DOWN - B(7) | 7.64 | 508 | 0.5 | <0.004 | <2.68E-09 | 2.75±2.46E-09 | 5.03±0.82E-07 | <3.16E-08 | <3.68E-08 |
| WNW0115 | DOWN - B(5) | 7.39 | 544 | 0.5 | <0.004 | <2.18E-09 | 3.08±2.74E-09 | 5.26±0.83E-07 | <2.64E-08 | <2.75E-08 |
| WNW0115 | DOWN - B(8) | 7.27 | 567 | 0.5 | <0.004 | <2.40E-09 | <2.52E-09 | 6.14±0.86E-07 | <2.64E-08 | <2.75E-08 |
| WNW0702 | DOWN - B(1) | 7.07 | 1038 | 0.6 | <0.004 | 2.96±2.90E-09 | 3.12±2.83E-09 | <7.80E-08 | <3.66E-08 | <3.35E-08 |
| WNW0702 | DOWN - B(2) | 6.78 | 964 | 1.6 | <0.004 | 8.77±7.40E-09 | 7.07±3.02E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0702 | DOWN - B(3) | 7.06 | 964 | 0.9 | <0.004 | <4.17E-09 | 6.90±3.16E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0702 | DOWN - B(4) | 7.29 | 962 | 0.9 | <0.004 | 7.65±6.00E-09 | 4.41±3.09E-09 | <7.76E-08 | <2.27E-08 | <2.42E-08 |
| WNW0702 | DOWN - B(6) | 8.12 | 756 | 1.0 | <0.004 | <7.94E-09 | 3.57±2.96E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0702 | DOWN - B(7) | 7.23 | 984 | 0.7 | <0.004 | <4.77E-09 | 4.91±2.90E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0702 | DOWN - B(5) | 7.19 | 980 | 0.8 | <0.004 | <3.83E-09 | <2.72E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0702 | DOWN - B(8) | 7.12 | 474 | 0.6 | <0.004 | <4.29E-09 | 3.97±3.00E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0703 | DOWN - B(1) | 7.18 | 857 | 0.4 | <0.004 | <2.46E-09 | 3.42±2.86E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW0703 | DOWN - B(2) | 7.67 | 770 | 0.6 | <0.004 | <2.95E-09 | <2.82E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0703 | DOWN - B(3) | 7.18 | 851 | 0.6 | <0.004 | <3.97E-09 | <2.67E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0703 | DOWN - B(4) | 7.28 | 815 | 0.5 | <0.004 | <3.32E-09 | 5.12±3.05E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0703 | DOWN - B(6) | 7.36 | 869 | 0.5 | <0.004 | 6.53±5.49E-09 | <2.71E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0703 | DOWN - B(7) | 7.18 | 911 | 0.5 | <0.004 | <4.24E-09 | 4.63±2.81E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0703 | DOWN - B(5) | 7.13 | 940 | 0.4 | <0.004 | <4.79E-09 | 3.93±2.77E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0703 | DOWN - B(8) | 6.99 | 834 | 0.5 | <0.004 | <4.35E-09 | 4.17±2.69E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0705 | DOWN - B(1) | 7.24 | 455 | 1.9 | 0.006 | <1.03E-09 | 4.96±2.79E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW0705 | DOWN - B(2) | 6.80 | 382 | 1.6 | 0.005 | <1.62E-09 | 5.68±2.69E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0705 | DOWN - B(3) | 7.26 | 430 | 1.5 | 0.007 | <2.14E-09 | 3.64±2.66E-09 | <7.50E-08 | <3.50E-08 | <3.69E-08 |
| WNW0705 | DOWN - B(4) | 7.32 | 477 | 1.5 | <0.004 | <2.20E-09 | 4.46±2.88E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0705 | DOWN - B(6) | 8.05 | 511 | 1.7 | 0.005 | <2.77E-09 | <2.75E-09 | <7.32E-08 | <2.27E-08 | <2.42E-08 |
| WNW0705 | DOWN - B(7) | 7.21 | 565 | 1.6 | <0.004 | <3.61E-09 | 4.68±2.76E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0705 | DOWN - B(5) | 6.96 | 327 | 1.7 | <0.004 | <3.53E-09 | <2.63E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0705 | DOWN - B(8) | 7.11 | 508 | 2.0 | <0.004 | <1.80E-09 | <2.57E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0904 | DOWN - B(1) | 7.06 | 1064 | 1.1 | <0.004 | <3.47E-09 | 5.71±3.31E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW0904 | DOWN - B(2) | 7.23 | 996 | 1.1 | <0.004 | <4.69E-09 | <2.88E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0904 | DOWN - B(3) | 7.18 | 960 | 1.5 | <0.004 | <6.39E-09 | 4.39±3.01E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0904 | DOWN - B(4) | 7.10 | 909 | 0.9 | <0.004 | <5.23E-09 | <2.92E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0904 | DOWN - B(6) | 7.18 | 856 | 0.8 | <0.004 | <4.71E-09 | <2.74E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0904 | DOWN - B(7) | 7.20 | 855 | 0.6 | <0.004 | <3.81E-09 | 3.72±2.64E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0904 | DOWN - B(5) | 7.37 | 822 | 0.8 | <0.004 | <2.81E-09 | 4.25±2.71E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0904 | DOWN - B(8) | 7.00 | 827 | 0.6 | <0.004 | 3.60±3.53E-09 | 4.45±2.99E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 3 (continued)
Contamination Indicator Parameters for the Unweathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1101B | DOWN - B(1) | 7.02 | 1184 | 0.6 | 0.007 | <4.72E-09 | 1.41±0.59E-08 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW1101B | DOWN - B(2) | 6.91 | 1126 | 0.6 | <0.004 | 7.76±6.58E-09 | 7.79±4.45E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1101B | DOWN - B(3) | 7.15 | 1103 | 0.5 | <0.004 | 1.33±0.81E-08 | 6.08±3.33E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1101B | DOWN - B(4) | 7.08 | 970 | 0.6 | <0.004 | <6.28E-09 | 1.03±0.35E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1101B | DOWN - B(6) | 7.29 | 928 | 0.5 | <0.004 | <3.88E-09 | 9.05±3.35E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1101B | DOWN - B(7) | 7.32 | 912 | 0.6 | <0.004 | <4.87E-09 | 5.26±3.09E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101B | DOWN - B(5) | 7.12 | 910 | 0.6 | <0.004 | <2.52E-09 | 5.43±3.25E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101B | DOWN - B(8) | 7.10 | 915 | 0.6 | <0.004 | <3.50E-09 | 5.20±3.88E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1106B | DOWN - B(1) | 7.24 | 803 | 0.9 | <0.004 | <2.71E-09 | 4.47±2.82E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW1106B | DOWN - B(2) | 7.14 | 830 | 0.8 | <0.004 | <3.62E-09 | 7.81±3.27E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1106B | DOWN - B(3) | 7.02 | 837 | 0.7 | <0.004 | <2.40E-09 | 3.65±3.09E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1106B | DOWN - B(4) | 7.13 | 849 | 0.7 | <0.004 | <4.67E-09 | 6.20±3.00E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1106B | DOWN - B(6) | 7.14 | 814 | 0.8 | <0.004 | <5.01E-09 | 4.71±2.85E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1106B | DOWN - B(7) | 7.32 | 819 | 0.7 | <0.004 | <4.73E-09 | 5.80±3.12E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1106B | DOWN - B(5) | 6.98 | 807 | 0.7 | <0.004 | <4.53E-09 | 3.41±3.00E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1106B | DOWN - B(8) | 7.29 | 821 | 0.7 | <0.004 | <4.75E-09 | <3.09E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1109B | DOWN - B(1) | 7.58 | 459 | 0.6 | <0.004 | <2.28E-09 | 3.19±2.54E-09 | 5.05±0.83E-07 | <2.14E-08 | <2.37E-08 |
| WNW1109B | DOWN - B(2) | 7.43 | 743 | 0.6 | <0.004 | <2.15E-09 | <2.13E-09 | 5.50±0.87E-07 | <2.88E-08 | <3.06E-08 |
| WNW1109B | DOWN - B(3) | 7.36 | 490 | 0.7 | <0.004 | <1.93E-09 | <2.62E-09 | 5.48±0.88E-07 | <3.50E-08 | <3.69E-08 |
| WNW1109B | DOWN - B(4) | 7.67 | 484 | 0.6 | <0.004 | <2.72E-09 | <2.41E-09 | 4.68±0.82E-07 | <2.27E-08 | <2.42E-08 |
| WNW1109B | DOWN - B(6) | 7.62 | 458 | 0.7 | <0.004 | <1.86E-09 | <2.45E-09 | 3.79±0.84E-07 | <2.05E-08 | <2.12E-08 |
| WNW1109B | DOWN - B(7) | 7.89 | 478 | 0.6 | <0.004 | <1.80E-09 | <2.37E-09 | 3.98±0.82E-07 | <2.05E-08 | <2.12E-08 |
| WNW1109B | DOWN - B(5) | 7.56 | 486 | 0.7 | <0.004 | <1.73E-09 | 3.09±2.81E-09 | 4.51±0.83E-07 | <2.64E-08 | <2.75E-08 |
| WNW1109B | DOWN - B(8) | 7.59 | 485 | 0.7 | <0.004 | <1.77E-09 | <2.60E-09 | 4.14±0.83E-07 | <2.39E-08 | <2.63E-08 |
| WNW0107 | DOWN - C(1) | 7.31 | 1107 | 0.9 | <0.004 | <5.76E-09 | 7.35±3.34E-09 | 9.20±0.96E-07 | <2.14E-08 | <2.37E-08 |
| WNW0107 | DOWN - C(2) | 6.88 | 1002 | 0.9 | <0.004 | <6.32E-09 | 6.68±4.80E-09 | 1.26±0.10E-06 | <3.43E-08 | <3.11E-08 |
| WNW0107 | DOWN - C(3) | 6.89 | 926 | 1.0 | <0.004 | <4.08E-09 | 4.03±3.97E-09 | 1.30±0.10E-06 | <2.27E-08 | <2.42E-08 |
| WNW0107 | DOWN - C(4) | 7.11 | 924 | 0.8 | <0.004 | <6.11E-09 | 2.76±2.75E-09 | 1.00±0.09E-06 | <3.50E-08 | <3.69E-08 |
| WNW0107 | DOWN - C(6) | 6.99 | 962 | 0.7 | <0.004 | <4.75E-09 | 4.41±3.15E-09 | 1.43±0.11E-06 | <2.27E-08 | <2.42E-08 |
| WNW0107 | DOWN - C(7) | 7.00 | 965 | 0.6 | <0.004 | <5.16E-09 | 4.69±2.92E-09 | 1.24±0.10E-06 | <3.16E-08 | <3.68E-08 |
| WNW0107 | DOWN - C(5) | 7.01 | 960 | 0.7 | <0.004 | <3.84E-09 | 3.87±3.06E-09 | 1.33±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0107 | DOWN - C(8) | 6.87 | 916 | 0.9 | <0.004 | <1.97E-09 | 3.39±2.99E-09 | 1.40±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0108 | DOWN - C(1) | 7.62 | 1161 | 0.9 | <0.004 | <5.36E-09 | 5.95±3.17E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0108 | DOWN - C(2) | 6.83 | 1228 | 0.8 | <0.004 | <5.54E-09 | 6.08±3.07E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0108 | DOWN - C(3) | 7.06 | 1077 | 0.8 | <0.004 | <5.87E-09 | 6.76±3.28E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0108 | DOWN - C(4) | 7.14 | 912 | 0.8 | <0.004 | <3.91E-09 | 5.73±3.05E-09 | <7.85E-08 | <2.27E-08 | <2.42E-08 |
| WNW0108 | DOWN - C(6) | 7.04 | 911 | 0.8 | <0.004 | <5.43E-09 | 4.87±2.92E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0108 | DOWN - C(7) | 7.12 | 839 | 0.8 | <0.004 | <4.64E-09 | 4.47±2.79E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0108 | DOWN - C(5) | 7.12 | 809 | 0.8 | <0.004 | <4.50E-09 | 3.58±2.71E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0108 | DOWN - C(8) | 7.19 | 804 | 0.8 | <0.004 | <3.61E-09 | <2.77E-09 | <1.00E-07 | <2.57E-08 | <3.01E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 3 (continued)
Contamination Indicator Parameters for the Unweathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0114 | DOWN - C(1) | 7.29 | 623 | 0.5 | <0.004 | <2.90E-09 | 4.45±2.84E-09 | 4.65±0.85E-07 | <2.14E-08 | <2.37E-08 |
| WNW0114 | DOWN - C(2) | 7.14 | 607 | 0.5 | <0.004 | <2.47E-09 | <2.50E-09 | 3.54±0.84E-07 | <2.27E-08 | <2.42E-08 |
| WNW0114 | DOWN - C(3) | 7.02 | 611 | 0.8 | <0.004 | <2.07E-09 | 4.52±2.84E-09 | 3.50±0.78E-07 | <2.27E-08 | <2.42E-08 |
| WNW0114 | DOWN - C(4) | 7.12 | 555 | 0.5 | <0.005 | <2.08E-09 | 5.41±2.73E-09 | 3.44±0.83E-07 | <2.27E-08 | <2.42E-08 |
| WNW0114 | DOWN - C(6) | 7.08 | 559 | 0.5 | <0.004 | <2.26E-09 | <2.40E-09 | 3.56±0.81E-07 | <2.27E-08 | <2.42E-08 |
| WNW0114 | DOWN - C(7) | 7.11 | 566 | 0.5 | <0.004 | <3.47E-09 | <2.35E-09 | 3.45±0.80E-07 | <2.05E-08 | <2.12E-08 |
| WNW0114 | DOWN - C(5) | 7.13 | 606 | 0.5 | <0.004 | <2.84E-09 | <2.75E-09 | 4.98±0.83E-07 | <2.14E-08 | <2.51E-08 |
| WNW0114 | DOWN - C(8) | 6.96 | 650 | 0.7 | <0.004 | <1.87E-09 | <2.74E-09 | 3.13±0.82E-07 | <2.64E-08 | <2.75E-08 |
| WNW0409 | DOWN - C(1) | 7.37 | 404 | 0.4 | <0.004 | <1.62E-09 | 6.75±3.12E-09 | 6.21±0.86E-07 | <2.14E-08 | <2.37E-08 |
| WNW0409 | DOWN - C(2) | 7.94 | 403 | 0.4 | 0.013 | <1.69E-09 | 7.74±2.83E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW0409 | DOWN - C(3) | 7.58 | 388 | 0.4 | <0.004 | 2.46±2.27E-09 | 8.43±3.18E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0409 | DOWN - C(4) | 7.74 | 377 | 0.3 | 0.017 | <2.50E-09 | 5.22±2.78E-09 | 1.22±0.82E-07 | <2.27E-08 | <2.42E-08 |
| WNW0409 | DOWN - C(6) | 7.68 | 396 | 0.3 | <0.004 | 3.10±2.88E-09 | 3.74±2.52E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0409 | DOWN - C(7) | 7.70 | 399 | 0.5 | <0.004 | <3.00E-09 | 4.54±2.61E-09 | <7.19E-08 | <3.16E-08 | <3.68E-08 |
| WNW0409 | DOWN - C(5) | 7.46 | 411 | 0.4 | <0.004 | <2.26E-09 | 4.56±2.59E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0409 | DOWN - C(8) | 7.79 | 397 | 0.5 | <0.004 | <1.47E-09 | 1.12±0.33E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0910 | DOWN - C(5) | 7.25 | 1434 | 5.1 | <0.004 | <5.04E-09 | 1.36±0.54E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0910 | DOWN - C(8) | 7.04 | 1422 | 2.7 | <0.004 | 1.57±1.03E-08 | 1.19±0.51E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1102B | DOWN - C(1) | 7.28 | 649 | 0.4 | <0.004 | <2.40E-09 | 4.57±2.54E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW1102B | DOWN - C(2) | 7.34 | 688 | 0.5 | 0.004 | <3.74E-09 | <2.67E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1102B | DOWN - C(3) | 7.01 | 670 | 0.5 | <0.004 | <4.01E-09 | <2.62E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1102B | DOWN - C(4) | 7.18 | 601 | 0.5 | <0.004 | <2.75E-09 | 4.60±2.91E-09 | <7.79E-08 | <2.27E-08 | <2.42E-08 |
| WNW1102B | DOWN - C(6) | 7.13 | 641 | 0.6 | <0.004 | <4.43E-09 | <2.50E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1102B | DOWN - C(7) | 7.13 | 635 | 0.5 | <0.004 | <2.81E-09 | <2.64E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1102B | DOWN - C(5) | 7.03 | 612 | 0.6 | <0.004 | <3.84E-09 | <2.62E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1102B | DOWN - C(8) | 7.16 | 577 | 0.5 | <0.004 | <2.74E-09 | 2.83±2.82E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1103B | DOWN - C(1) | 6.98 | 729 | 0.6 | 0.007 | <3.86E-09 | 3.27±2.72E-09 | <7.48E-08 | <2.14E-08 | <2.37E-08 |
| WNW1103B | DOWN - C(2) | 7.51 | 772 | 0.5 | 0.007 | <5.09E-09 | 4.81±3.15E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1103B | DOWN - C(3) | 7.21 | 757 | 0.7 | <0.004 | <2.92E-09 | 6.05±3.17E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1103B | DOWN - C(4) | 7.13 | 771 | 0.6 | <0.004 | <5.79E-09 | 3.29±2.83E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1103B | DOWN - C(6) | 7.11 | 742 | 0.6 | <0.004 | <4.88E-09 | <2.60E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1103B | DOWN - C(7) | 7.09 | 728 | 0.6 | <0.004 | <4.17E-09 | <2.70E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1103B | DOWN - C(5) | 7.00 | 752 | 0.7 | <0.004 | <3.99E-09 | <2.52E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1103B | DOWN - C(8) | 7.16 | 659 | 0.7 | <0.004 | <2.61E-09 | 3.66±2.92E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Well WNW0910 was incorporated into the groundwater program in late 1992.

Table E - 3 (concluded)
Contamination Indicator Parameters for the Unweathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1104B | DOWN - C(1) | 6.98 | 704 | 0.8 | <0.004 | <3.14E-09 | 3.30±2.42E-09 | 1.77±0.78E-07 | <2.14E-08 | <2.37E-08 |
| WNW1104B | DOWN - C(2) | 7.13 | 731 | 0.7 | <0.004 | <4.43E-09 | 3.35±2.95E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1104B | DOWN - C(3) | 7.22 | 716 | 0.6 | <0.004 | <3.81E-09 | 3.83±2.99E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1104B | DOWN - C(4) | 7.21 | 709 | 0.6 | <0.004 | <4.53E-09 | 2.66±2.53E-09 | <1.00E-07 | <2.88E-08 | <3.06E-08 |
| WNW1104B | DOWN - C(6) | 7.29 | 653 | 0.8 | <0.004 | <2.41E-09 | 3.77±2.66E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1104B | DOWN - C(7) | 7.44 | 654 | 0.6 | <0.004 | <2.72E-09 | 4.91±2.89E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1104B | DOWN - C(5) | 7.27 | 645 | 0.7 | <0.004 | <3.36E-09 | <2.69E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1104B | DOWN - C(8) | 7.46 | 656 | 0.7 | <0.004 | <3.52E-09 | <2.70E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1105A | DOWN - C(1) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1105A | DOWN - C(2) | 6.73 | 1333 | 3.3 | <0.004 | <5.26E-09 | 1.30±0.40E-08 | <8.16E-08 | <3.50E-08 | <3.69E-08 |
| WNW1105A | DOWN - C(3) | 6.87 | 1100 | 2.0 | <0.004 | 5.83±5.38E-09 | 3.54±3.13E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1105A | DOWN - C(4) | 7.12 | 983 | 1.3 | <0.004 | <6.79E-09 | 5.52±3.28E-09 | <7.96E-08 | <2.27E-08 | <2.42E-08 |
| WNW1105A | DOWN - C(6) | 7.06 | 957 | 1.4 | <0.004 | 1.22±0.68E-08 | 7.30±3.14E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1105A | DOWN - C(7) | 6.99 | 933 | 1.4 | <0.004 | 8.19±6.34E-09 | 4.71±3.00E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1105A | DOWN - C(5) | 7.02 | 628 | 1.2 | <0.004 | <5.07E-09 | <2.79E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1105A | DOWN - C(8) | 7.18 | 900 | 1.4 | <0.004 | <3.34E-09 | 3.78±3.76E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1105B | DOWN - C(1) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1105B | DOWN - C(2) | N/A | N/A | N/A | N/A | N/A | N/A | <1.00E-07 | N/A | N/A |
| WNW1105B | DOWN - C(3) | N/A | N/A | N/A | N/A | <5.15E-09 | <1.21E-08 | <1.00E-07 | <2.93E-07 | <2.66E-07 |
| WNW1105B | DOWN - C(4) | 7.02 | 1172 | 1.6 | <0.004 | <9.12E-09 | 6.53±3.46E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1105B | DOWN - C(6) | 7.10 | 1130 | 1.3 | <0.004 | <5.54E-09 | 7.84±3.26E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1105B | DOWN - C(7) | 7.02 | 1055 | 1.3 | <0.004 | <6.04E-09 | 4.19±2.68E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1105B | DOWN - C(5) | 7.07 | 707 | 3.4 | <0.004 | <5.02E-09 | <2.92E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1105B | DOWN - C(8) | 7.08 | 1026 | 2.3 | 0.005 | <6.16E-09 | 5.30±3.95E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1111A | DOWN - C(1) | 6.74 | 1376 | 0.7 | <0.004 | <7.01E-09 | 8.30±5.15E-09 | 1.43±0.77E-07 | <2.14E-08 | <2.37E-08 |
| WNW1111A | DOWN - C(2) | 7.16 | 1418 | 0.5 | <0.004 | <6.68E-09 | <4.07E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1111A | DOWN - C(3) | 6.77 | 1304 | 0.7 | <0.004 | <5.83E-09 | 5.65±4.57E-09 | <8.17E-08 | <3.50E-08 | <3.69E-08 |
| WNW1111A | DOWN - C(4) | 6.81 | 1104 | 0.7 | <0.004 | <1.10E-08 | 6.49±3.57E-09 | <7.83E-08 | <2.27E-08 | <2.42E-08 |
| WNW1111A | DOWN - C(6) | 6.85 | 1072 | 0.7 | <0.004 | 9.72±7.53E-09 | 8.82±3.41E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1111A | DOWN - C(7) | 7.03 | 1102 | 0.7 | <0.004 | <6.25E-09 | 8.15±3.18E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1111A | DOWN - C(5) | 6.85 | 1105 | 0.8 | <0.004 | <5.97E-09 | 5.99±4.46E-09 | <7.66E-08 | <2.39E-08 | <2.63E-08 |
| WNW1111A | DOWN - C(8) | 6.74 | 1138 | 0.8 | <0.004 | <5.38E-09 | 4.88±4.39E-09 | <7.83E-08 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 4
Contamination Indicator Parameters for the Lacustrine Unit

| Location Code | Hydraulic Position | pH | Conductivity µmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha µCi/mL | Gross Beta µCi/mL | Tritium µCi/mL | Cs-137 µCi/mL | Co-60 µCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0901 | UP(1) | 7.58 | 385 | 0.5 | <0.004 | <1.02E-09 | 7.22±3.00E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW0901 | UP(2) | 7.65 | 402 | 0.5 | 0.007 | <1.32E-09 | 3.54±2.79E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0901 | UP(3) | 7.59 | 389 | 0.6 | <0.004 | <2.55E-09 | 8.54±2.90E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0901 | UP(4) | 7.73 | 383 | 0.4 | <0.004 | <2.06E-09 | 7.68±3.18E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0901 | UP(6) | 7.51 | 383 | 0.6 | <0.004 | <2.24E-09 | <2.68E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0901 | UP(7) | 7.63 | 383 | 0.6 | <0.004 | <1.19E-09 | 4.88±2.73E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0901 | UP(5) | 7.42 | 382 | 0.7 | <0.004 | <1.11E-09 | 6.39±2.96E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0901 | UP(8) | 7.77 | 383 | 0.7 | <0.004 | <1.54E-09 | 5.66±2.94E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0902 | UP(1) | 8.14 | 422 | 0.6 | <0.004 | <1.16E-09 | 5.90±2.92E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW0902 | UP(2) | 7.77 | 445 | 0.6 | 0.007 | <1.45E-09 | 4.02±2.87E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0902 | UP(3) | 7.93 | 446 | 0.5 | 0.004 | <2.01E-09 | 3.67±2.69E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0902 | UP(4) | 8.17 | 417 | 0.4 | <0.004 | <2.37E-09 | 4.58±2.67E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0902 | UP(6) | 7.96 | 440 | 0.4 | <0.004 | <2.61E-09 | <2.65E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0902 | UP(7) | 7.86 | 364 | 0.4 | <0.004 | <2.12E-09 | 4.82±2.64E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0902 | UP(5) | 7.92 | 453 | 0.5 | <0.004 | <2.76E-09 | 5.09±2.63E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0902 | UP(8) | 7.53 | 451 | 0.6 | 0.005 | <1.30E-09 | 3.34±2.65E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1001 | UP(1) | 7.53 | 585 | 0.4 | <0.004 | 2.28±1.83E-09 | 2.56±2.55E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW1001 | UP(2) | 7.66 | 475 | 0.4 | 0.016 | <1.58E-09 | 5.84±2.89E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW1001 | UP(3) | 7.68 | 443 | 0.4 | 0.016 | <1.62E-09 | 4.50±2.74E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1001 | UP(4) | 7.66 | 431 | 0.4 | <0.004 | 2.93±2.71E-09 | 3.35±2.72E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1001 | UP(6) | 7.64 | 444 | 0.4 | <0.004 | <2.08E-09 | 4.60±2.93E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1001 | UP(7) | 7.48 | 439 | 0.5 | <0.004 | <1.48E-09 | 6.48±2.78E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1001 | UP(5) | 7.45 | 445 | 0.4 | <0.004 | <2.44E-09 | 4.75±2.57E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1001 | UP(8) | 7.78 | 455 | 0.4 | <0.004 | <1.82E-09 | <2.48E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1008B | UP(1) | 7.73 | 467 | 0.4 | 0.012 | 3.03±2.54E-09 | 4.19±2.85E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW1008B | UP(2) | 7.52 | 365 | 0.5 | 0.017 | 1.70±1.66E-09 | 7.03±2.80E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1008B | UP(3) | 7.50 | 320 | 0.6 | 0.007 | <2.18E-09 | <2.64E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1008B | UP(4) | 7.72 | 352 | 0.5 | <0.004 | 2.60±2.41E-09 | 3.44±2.70E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1008B | UP(6) | 7.78 | 420 | 0.5 | <0.004 | <2.17E-09 | 4.25±2.74E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1008B | UP(7) | 7.58 | 403 | 0.5 | <0.004 | <1.68E-09 | 5.18±2.64E-09 | <1.00E-07 | <2.60E-08 | <2.90E-08 |
| WNW1008B | UP(5) | 7.46 | 390 | 0.4 | <0.004 | <1.17E-09 | 2.72±2.30E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1008B | UP(8) | 7.78 | 361 | 0.5 | <0.004 | <2.00E-09 | 4.91±2.94E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0903 | DOWN - B(1) | 7.44 | 749 | 0.8 | <0.004 | <3.38E-09 | 5.33±2.95E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW0903 | DOWN - B(2) | 7.49 | 773 | 0.7 | 0.004 | <1.76E-09 | 4.85±3.09E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW0903 | DOWN - B(3) | 7.52 | 772 | 0.8 | <0.004 | <2.36E-09 | 5.20±3.01E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0903 | DOWN - B(4) | 7.46 | 770 | 0.7 | <0.004 | <2.94E-09 | 5.22±3.11E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW0903 | DOWN - B(6) | 7.49 | 759 | 0.8 | <0.004 | <3.77E-09 | 5.82±3.00E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0903 | DOWN - B(7) | 7.54 | 760 | 0.8 | <0.004 | <3.14E-09 | 5.63±2.82E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0903 | DOWN - B(5) | 7.70 | 786 | 0.8 | <0.004 | <2.69E-09 | 7.51±3.39E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0903 | DOWN - B(8) | 7.16 | 830 | 0.8 | <0.004 | <3.03E-09 | 4.13±2.95E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

Table E - 4 (continued)
Contamination Indicator Parameters for the Lacustrine Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1002 | DOWN - B(1) | 7.05 | 903 | 0.8 | <0.004 | 4.33±3.80E-09 | 1.68±0.63E-08 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW1002 | DOWN - B(2) | 7.10 | 912 | 0.8 | 0.009 | 7.31±5.42E-09 | 4.84±3.81E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW1002 | DOWN - B(3) | 7.11 | 927 | 0.7 | <0.004 | <6.12E-09 | 3.73±3.04E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1002 | DOWN - B(4) | 7.11 | 931 | <0.2 | <0.004 | <4.07E-09 | 4.22±3.02E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1002 | DOWN - B(6) | 7.08 | 988 | 0.7 | <0.004 | <3.89E-09 | <3.10E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1002 | DOWN - B(7) | 6.93 | 991 | 0.8 | <0.004 | <5.60E-09 | 4.02±2.87E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1002 | DOWN - B(5) | 6.90 | 1013 | 0.7 | <0.004 | <9.11E-09 | 4.88±3.01E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1002 | DOWN - B(8) | 7.07 | 1044 | 0.7 | <0.004 | <5.75E-09 | <4.16E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1003 | DOWN - B(1) | 7.53 | 441 | 1.0 | <0.004 | <1.64E-09 | 4.89±2.70E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW1003 | DOWN - B(2) | 7.55 | 432 | 0.8 | 0.011 | <1.46E-09 | 6.90±2.79E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW1003 | DOWN - B(3) | 7.79 | 441 | 1.2 | 0.008 | <1.62E-09 | 5.03±2.89E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1003 | DOWN - B(4) | 7.53 | 427 | 0.9 | <0.004 | <1.85E-09 | 4.93±2.61E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1003 | DOWN - B(6) | 7.63 | 436 | 0.8 | <0.004 | <1.51E-09 | <2.76E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1003 | DOWN - B(7) | 7.33 | 438 | 0.9 | <0.004 | <2.38E-09 | 3.77±2.51E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1003 | DOWN - B(5) | 7.43 | 443 | 0.9 | <0.004 | <2.07E-09 | 2.91±2.39E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1003 | DOWN - B(8) | 7.59 | 440 | 0.9 | <0.004 | <2.09E-09 | 3.01±2.71E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1004 | DOWN - B(1) | 7.49 | 460 | 0.7 | <0.004 | 1.69±1.66E-09 | <2.57E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW1004 | DOWN - B(2) | 7.43 | 454 | 0.7 | 0.008 | <2.20E-09 | <2.46E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1004 | DOWN - B(3) | 7.53 | 456 | 0.7 | <0.004 | <2.18E-09 | <2.54E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1004 | DOWN - B(4) | 7.50 | 454 | 0.7 | <0.004 | <2.15E-09 | 6.51±2.81E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1004 | DOWN - B(6) | 7.52 | 459 | 0.7 | <0.004 | <2.29E-09 | <2.71E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1004 | DOWN - B(7) | 7.41 | 457 | 0.7 | <0.004 | 5.53±3.75E-09 | <2.44E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1004 | DOWN - B(5) | 7.37 | 460 | 0.9 | <0.004 | <1.37E-09 | 4.54±2.58E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1004 | DOWN - B(8) | 7.49 | 454 | 0.8 | <0.004 | <1.97E-09 | <2.54E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1101C | DOWN - B(1) | 7.42 | 585 | 2.0 | 0.008 | <2.26E-09 | 5.48±3.08E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW1101C | DOWN - B(2) | 7.19 | 591 | 0.5 | <0.004 | <1.99E-09 | 7.98±3.15E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1101C | DOWN - B(3) | 7.34 | 545 | 0.7 | <0.004 | <2.66E-09 | 7.36±3.00E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1101C | DOWN - B(4) | 7.55 | 514 | 0.8 | <0.004 | <2.08E-09 | 5.45±2.93E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1101C | DOWN - B(6) | 7.34 | 542 | 0.7 | <0.004 | <2.96E-09 | 5.68±3.09E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1101C | DOWN - B(7) | 7.21 | 531 | 0.6 | <0.004 | <1.49E-09 | 4.74±2.93E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101C | DOWN - B(5) | 7.19 | 377 | 0.6 | <0.004 | <3.02E-09 | 4.74±2.90E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101C | DOWN - B(8) | 7.57 | 514 | 0.6 | <0.004 | <2.22E-09 | 4.63±2.89E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1103C | DOWN - C(1) | N/A | N/A | N/A | N/A | <3.97E-09 | 6.88±0.84E-08 | <7.80E-08 | <5.78E-08 | <4.80E-08 |
| WNW1103C | DOWN - C(2) | N/A | N/A | N/A | N/A | <3.79E-09 | 5.30±1.26E-08 | <1.00E-07 | <2.14E-07 | <1.94E-07 |
| WNW1103C | DOWN - C(3) | N/A | N/A | < 1.0 | N/A | <4.34E-09 | 2.68±0.49E-08 | <1.00E-07 | <6.36E-08 | <6.71E-08 |
| WNW1103C | DOWN - C(4) | 7.01 | 722 | N/A | N/A | <3.87E-09 | 2.04±0.42E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1103C | DOWN - C(6) | N/A | N/A | N/A | N/A | <2.94E-09 | 2.73±0.56E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1103C | DOWN - C(7) | 7.16 | 720 | N/A | N/A | <2.73E-09 | 2.79±0.48E-08 | <1.00E-07 | <5.96E-08 | <6.94E-08 |
| WNW1103C | DOWN - C(5) | 7.10 | 746 | N/A | N/A | <3.95E-09 | 2.49±0.50E-08 | <1.00E-07 | <4.77E-08 | <4.96E-08 |
| WNW1103C | DOWN - C(8) | N/A | N/A | N/A | N/A | <3.75E-09 | 1.96±0.48E-08 | <1.00E-07 | <4.31E-08 | <4.49E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 4 (concluded)

Contamination Indicator Parameters for the Lacustrine Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1104C | DOWN - C(1) | N/A | N/A | N/A | N/A | <1.35E-08 | 1.21±0.41E-08 | <7.78E-08 | <3.21E-08 | <2.67E-08 |
| WNW1104C | DOWN - C(2) | 6.94 | 1666 | 1.7 | <0.004 | <9.52E-09 | 1.80±0.52E-08 | <1.00E-07 | <6.35E-08 | <5.76E-08 |
| WNW1104C | DOWN - C(3) | N/A | N/A | 1.3 | <0.004 | <9.92E-09 | 9.36±4.87E-09 | <1.00E-07 | <2.95E-08 | <3.14E-08 |
| WNW1104C | DOWN - C(4) | 6.91 | 1836 | N/A | N/A | <9.88E-09 | 1.34±0.52E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1104C | DOWN - C(6) | N/A | N/A | 6.0 | N/A | <9.54E-09 | 6.96±5.03E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1104C | DOWN - C(7) | 6.96 | 2030 | N/A | N/A | <9.41E-09 | 1.52±0.61E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1104C | DOWN - C(5) | 6.96 | 2110 | 1.2 | <0.008 | <7.77E-09 | 8.54±8.49E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1104C | DOWN - C(8) | 6.89 | 2190 | 1.1 | N/A | <8.39E-09 | <1.08E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8610 | DOWN - C(1) | 7.88 | 729 | 0.8 | <0.004 | <2.55E-09 | 6.73±3.23E-09 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW8610 | DOWN - C(2) | 8.04 | 739 | 1.0 | <0.004 | <2.94E-09 | 3.32±2.77E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW8610 | DOWN - C(3) | 8.24 | 764 | 0.7 | <0.004 | <3.70E-09 | 4.58±3.05E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8610 | DOWN - C(4) | 7.90 | 768 | 0.7 | <0.004 | <2.76E-09 | 4.83±2.90E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8610 | DOWN - C(6) | 8.11 | 783 | 0.8 | <0.004 | <2.49E-09 | 5.91±3.19E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8610 | DOWN - C(7) | 8.05 | 770 | 0.8 | <0.004 | <3.67E-09 | 4.67±2.80E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8610 | DOWN - C(5) | 8.43 | 816 | 0.8 | <0.004 | <3.59E-09 | 8.90±3.13E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8610 | DOWN - C(8) | 7.52 | 721 | 0.8 | <0.004 | <1.40E-09 | 7.38±3.19E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8611 | DOWN - C(1) | 7.13 | 977 | 0.8 | <0.004 | <3.94E-09 | 3.32±3.12E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW8611 | DOWN - C(2) | 7.37 | 927 | 0.8 | <0.004 | <4.09E-09 | 5.05±4.06E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW8611 | DOWN - C(3) | 7.43 | 950 | 1.1 | <0.004 | <3.94E-09 | <3.93E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW8611 | DOWN - C(4) | 7.57 | 972 | 0.6 | <0.004 | <4.44E-09 | 5.75±3.27E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW8611 | DOWN - C(6) | 7.54 | 927 | 0.9 | <0.004 | <4.04E-09 | 5.28±3.06E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW8611 | DOWN - C(7) | 7.43 | 950 | 0.7 | <0.004 | <4.62E-09 | 5.38±2.98E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW8611 | DOWN - C(5) | 7.78 | 953 | 0.7 | <0.004 | <3.03E-09 | 3.66±2.67E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW8611 | DOWN - C(8) | 7.68 | 939 | 0.8 | <0.004 | 5.90±5.45E-09 | <3.17E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 5
Contamination Indicator Parameters for the Weathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW0908 | UP(1) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW0908 | UP(2) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW0908 | UP(3) | 6.67 | 2995 | 1.3 | 0.005 | <1.25E-08 | <1.45E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0908 | UP(4) | 6.60 | 2860 | 0.9 | <0.004 | <1.59E-08 | 1.59±1.18E-08 | <7.26E-08 | <2.27E-08 | <2.42E-08 |
| WNW0908 | UP(6) | 6.71 | 2990 | 0.9 | <0.004 | <1.62E-08 | <1.17E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0908 | UP(7) | 6.71 | 2995 | 0.9 | <0.004 | <1.80E-08 | 1.59±1.10E-08 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW0908 | UP(5) | 6.66 | 2850 | 0.9 | <0.004 | <1.45E-08 | <1.41E-08 | <1.00E-07 | <1.70E-08 | <1.86E-08 |
| WNW0908 | UP(8) | N/A | N/A | 0.9 | <0.004 | <1.15E-08 | 1.95±1.20E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW 1005 | UP(1) | 6.97 | 897 | 1.0 | <0.004 | <5.71E-09 | 5.24±3.13E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW 1005 | UP(2) | 6.96 | 884 | 1.4 | 0.007 | <3.27E-09 | 4.69±4.08E-09 | <7.38E-08 | <3.43E-08 | <3.11E-08 |
| WNW 1005 | UP(3) | 6.98 | 847 | 2.4 | <0.004 | <6.32E-09 | 5.61±3.17E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW 1005 | UP(4) | 6.96 | 819 | 0.9 | <0.004 | <3.61E-09 | <3.77E-09 | <7.96E-08 | <3.50E-08 | <3.69E-08 |
| WNW 1005 | UP(6) | 6.98 | 845 | 0.9 | <0.004 | <5.96E-09 | <3.07E-09 | 1.21±0.78E-07 | <2.05E-08 | <2.12E-08 |
| WNW 1005 | UP(7) | 6.85 | 864 | 1.0 | <0.004 | <5.27E-09 | <2.67E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW 1005 | UP(5) | 6.84 | 860 | 1.1 | <0.004 | 6.84±5.48E-09 | <2.57E-09 | <6.84E-08 | <2.64E-08 | <2.75E-08 |
| WNW 1005 | UP(8) | 6.93 | 832 | 0.8 | <0.004 | <3.46E-09 | <3.19E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW 1008C | UP(1) | 7.38 | 549 | 0.7 | 0.017 | <3.59E-09 | 3.18±2.64E-09 | <1.00E-07 | <2.31E-08 | <1.92E-08 |
| WNW 1008C | UP(2) | 7.44 | 508 | 0.8 | 0.019 | <2.01E-09 | 3.45±2.51E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW 1008C | UP(3) | 7.45 | 544 | 0.7 | 0.016 | <2.98E-09 | <2.65E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW 1008C | UP(4) | 7.41 | 556 | 0.7 | <0.004 | <2.46E-09 | <2.68E-09 | 1.24±0.75E-07 | <2.27E-08 | <2.42E-08 |
| WNW 1008C | UP(6) | 7.40 | 568 | 0.8 | <0.004 | <3.47E-09 | <2.64E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW 1008C | UP(7) | 7.09 | 564 | 0.8 | 0.004 | <2.64E-09 | <2.30E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW 1008C | UP(5) | 7.35 | 557 | 0.7 | <0.004 | <2.12E-09 | 3.56±2.50E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW 1008C | UP(8) | 7.56 | 552 | 0.8 | <0.004 | <2.33E-09 | <2.77E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW0906 | DOWN - B(1) | 7.02 | 1125 | 6.7 | 0.014 | 4.23±3.56E-09 | <2.75E-09 | 8.09±8.03E-08 | <3.66E-08 | <3.35E-08 |
| WNW0906 | DOWN - B(2) | 7.01 | 2070 | 6.8 | 0.024 | <1.67E-09 | 4.36±3.02E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0906 | DOWN - B(3) | 7.26 | 1042 | 3.2 | 0.005 | <3.44E-09 | 5.50±3.10E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0906 | DOWN - B(4) | 7.25 | 763 | 4.5 | 0.007 | <3.43E-09 | <2.75E-09 | <7.99E-08 | <3.50E-08 | <3.69E-08 |
| WNW0906 | DOWN - B(6) | 7.33 | 695 | 3.8 | 0.006 | <3.81E-09 | 3.13±2.78E-09 | <8.00E-08 | <3.50E-08 | <3.69E-08 |
| WNW0906 | DOWN - B(7) | 7.20 | 869 | 2.1 | <0.004 | <3.25E-09 | 5.42±2.83E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW0906 | DOWN - B(5) | 7.36 | 672 | 5.2 | 0.010 | <3.89E-09 | 3.94±2.59E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0906 | DOWN - B(8) | 6.96 | 791 | 5.6 | 0.010 | 5.02±3.48E-09 | 4.83±2.90E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW0907 | DOWN - B(1) | 6.89 | 1095 | 1.1 | 0.005 | 1.44±0.92E-08 | 5.58±3.40E-09 | 1.68±0.80E-07 | <3.66E-08 | <3.35E-08 |
| WNW0907 | DOWN - B(2) | 6.89 | 1015 | 0.8 | <0.004 | <3.99E-09 | 5.43±3.28E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW0907 | DOWN - B(3) | 6.97 | 915 | 0.7 | <0.004 | <5.06E-09 | 1.00±0.34E-08 | 1.09±0.74E-07 | <2.27E-08 | <2.42E-08 |
| WNW0907 | DOWN - B(4) | 6.99 | 861 | 0.6 | <0.004 | 7.03±5.52E-09 | 4.52±2.94E-09 | 1.57±0.81E-07 | <2.27E-08 | <2.42E-08 |
| WNW0907 | DOWN - B(6) | 7.03 | 827 | 0.8 | <0.004 | <4.25E-09 | 6.68±3.18E-09 | 8.39±7.63E-08 | <2.05E-08 | <2.12E-08 |
| WNW0907 | DOWN - B(7) | 7.00 | 827 | 0.7 | <0.004 | <4.16E-09 | 5.71±2.91E-09 | <7.84E-08 | <2.64E-08 | <2.75E-08 |
| WNW0907 | DOWN - B(5) | 7.12 | 803 | 0.8 | <0.004 | 6.19±5.72E-09 | 5.36±3.01E-09 | 7.95±7.83E-08 | <2.64E-08 | <2.75E-08 |
| WNW0907 | DOWN - B(8) | 6.75 | 808 | 0.7 | <0.004 | <3.98E-09 | <3.18E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 5 (continued)

Contamination Indicator Parameters for the Weathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity µmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha µCi/mL | Gross Beta µCi/mL | Tritium µCi/mL | Cs-137 µCi/mL | Co-60 µCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1006 | DOWN - B(1) | 6.72 | 2095 | 1.0 | <0.004 | 1.14±1.05E-08 | 1.83±0.95E-08 | <1.00E-07 | <3.66E-08 | <3.35E-08 |
| WNW1006 | DOWN - B(2) | 6.71 | 2220 | 0.4 | <0.004 | 1.07±1.05E-08 | 8.60±7.72E-09 | <1.00E-07 | <2.14E-08 | <2.37E-08 |
| WNW1006 | DOWN - B(3) | 6.61 | 2185 | 0.5 | <0.004 | <8.62E-09 | 1.07±0.84E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1006 | DOWN - B(4) | 6.67 | 2320 | 0.5 | <0.004 | <1.20E-08 | 8.24±8.12E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1006 | DOWN - B(6) | 6.71 | 2280 | 0.6 | <0.004 | <1.26E-08 | 9.90±6.38E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1006 | DOWN - B(7) | 6.59 | 2230 | 0.6 | <0.004 | <1.48E-08 | <5.65E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1006 | DOWN - B(5) | 6.58 | 2210 | 0.6 | <0.004 | <9.04E-09 | 1.26±0.80E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1006 | DOWN - B(8) | 6.73 | 2170 | 0.7 | <0.004 | <1.61E-08 | <7.13E-09 | <1.00E-07 | 2.68±1.47E-08 | <2.75E-08 |
| WNW1007 | DOWN - B(1) | 6.77 | 1545 | 5.1 | 0.020 | 1.03±0.95E-08 | 8.89±4.49E-09 | <1.00E-07 | <3.43E-08 | <3.11E-08 |
| WNW1007 | DOWN - B(2) | N/A | N/A | 4.2 | 0.021 | <2.84E-09 | <5.66E-09 | <1.00E-07 | <1.37E-07 | <1.24E-07 |
| WNW1007 | DOWN - B(3) | N/A | N/A | 3.9 | N/A | <5.51E-09 | 7.24±5.36E-09 | <1.00E-07 | <6.14E-08 | <6.47E-08 |
| WNW1007 | DOWN - B(4) | 6.93 | 1591 | 3.4 | 0.020 | <8.92E-09 | 1.90±0.60E-08 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1007 | DOWN - B(6) | 7.11 | 1551 | 2.3 | 0.009 | <7.46E-09 | 1.83±0.59E-08 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1007 | DOWN - B(7) | 6.67 | 1577 | 1.5 | 0.005 | <9.44E-09 | 1.69±0.52E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1007 | DOWN - B(5) | 6.77 | 1502 | 1.1 | 0.005 | <9.16E-09 | 1.16±0.47E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1007 | DOWN - B(8) | 6.92 | 1493 | 1.0 | 0.006 | <5.12E-09 | 2.97±0.82E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101A | DOWN - B(1) | 7.24 | 1000 | 0.7 | <0.004 | <4.68E-09 | 6.67±2.87E-09 | 9.70±7.75E-08 | <2.14E-08 | <2.37E-08 |
| WNW1101A | DOWN - B(2) | 6.94 | 892 | 0.4 | 0.013 | 7.21±4.71E-09 | 6.50±3.07E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1101A | DOWN - B(3) | 7.31 | 767 | 0.6 | <0.004 | <4.41E-09 | <2.83E-09 | <8.29E-08 | <3.50E-08 | <3.69E-08 |
| WNW1101A | DOWN - B(4) | 7.16 | 699 | 0.5 | <0.004 | 5.46±4.58E-09 | 4.20±2.94E-09 | <7.84E-08 | <3.50E-08 | <3.69E-08 |
| WNW1101A | DOWN - B(6) | 7.12 | 677 | 0.6 | <0.004 | <3.79E-09 | <2.92E-09 | <1.00E-07 | <3.16E-08 | <3.68E-08 |
| WNW1101A | DOWN - B(7) | 7.18 | 678 | 0.8 | <0.004 | <2.74E-09 | <2.70E-09 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1101A | DOWN - B(5) | 7.04 | 655 | 0.6 | <0.004 | <3.37E-09 | 2.92±2.80E-09 | <8.19E-08 | <2.64E-08 | <2.75E-08 |
| WNW1101A | DOWN - B(8) | 7.20 | 659 | 0.6 | <0.004 | <4.08E-09 | <2.74E-09 | 1.90±0.79E-07 | <2.14E-08 | <2.51E-08 |
| WNW1106A | DOWN - B(1) | 7.36 | 984 | 1.0 | <0.004 | <5.30E-09 | 7.47±3.01E-09 | 1.13±0.09E-06 | <2.31E-08 | <1.92E-08 |
| WNW1106A | DOWN - B(2) | 7.30 | 930 | 0.8 | <0.004 | <2.86E-09 | 6.35±3.17E-09 | 1.08±0.10E-06 | <3.50E-08 | <3.69E-08 |
| WNW1106A | DOWN - B(3) | 7.01 | 944 | 0.8 | <0.004 | <3.61E-09 | 6.84±3.25E-09 | 9.68±0.97E-07 | <2.27E-08 | <2.42E-08 |
| WNW1106A | DOWN - B(4) | 7.14 | 795 | 0.7 | <0.004 | <5.76E-09 | 3.47±2.69E-09 | 1.00±0.09E-06 | <2.27E-08 | <2.42E-08 |
| WNW1106A | DOWN - B(6) | 7.17 | 780 | 1.6 | <0.004 | <4.45E-09 | 5.96±2.98E-09 | 1.02±0.09E-06 | <3.16E-08 | <3.68E-08 |
| WNW1106A | DOWN - B(7) | 7.31 | 798 | 0.8 | <0.004 | <4.36E-09 | 5.07±5.06E-09 | 7.47±0.86E-07 | <2.64E-08 | <2.75E-08 |
| WNW1106A | DOWN - B(5) | 7.04 | 797 | 0.9 | <0.004 | <5.86E-09 | 3.36±2.96E-09 | 8.17±0.87E-07 | <2.64E-08 | <2.75E-08 |
| WNW1106A | DOWN - B(8) | 7.53 | 775 | 0.9 | <0.004 | <4.16E-09 | <3.25E-09 | 9.40±0.91E-07 | <2.14E-08 | <2.51E-08 |
| WNW1108A | DOWN - B(1) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1108A | DOWN - B(2) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1108A | DOWN - B(3) | 7.12 | 1796 | 1.2 | <0.004 | <1.23E-08 | <4.69E-09 | <1.00E-07 | <2.27E-08 | <2.42E-08 |
| WNW1108A | DOWN - B(4) | 6.96 | 1839 | 0.9 | <0.004 | <1.50E-08 | 4.72±4.36E-09 | <1.00E-07 | <3.50E-08 | <3.69E-08 |
| WNW1108A | DOWN - B(6) | 7.03 | 1705 | 0.8 | <0.004 | <1.14E-08 | 1.03±0.49E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1108A | DOWN - B(7) | 6.83 | 1624 | 0.7 | <0.004 | <9.77E-09 | 8.02±5.80E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1108A | DOWN - B(5) | 6.81 | 1613 | 0.9 | <0.004 | 1.03±0.96E-08 | 1.08±0.61E-08 | <1.00E-07 | <2.14E-08 | <2.51E-08 |
| WNW1108A | DOWN - B(8) | N/A | N/A | 0.9 | <0.004 | <5.63E-09 | <5.84E-09 | <1.00E-07 | <1.51E-08 | <1.78E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 5 (continued)

Contamination Indicator Parameters for the Weathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity $\mu\text{mhos/cm}25\text{C}$ | TOC mg/L | TOX mg/L | Gross Alpha $\mu\text{Ci/mL}$ | Gross Beta $\mu\text{Ci/mL}$ | Tritium $\mu\text{Ci/mL}$ | Cs-137 $\mu\text{Ci/mL}$ | Co-60 $\mu\text{Ci/mL}$ |
|---------------|--------------------|------|--|----------|----------|-------------------------------|------------------------------|---------------------------|--------------------------|-------------------------|
| WNW1109A | DOWN - C(1) | 7.13 | 868 | 0.6 | <0.004 | <5.00E-09 | 5.88±2.78E-09 | 6.18±0.83E-07 | <2.31E-08 | <1.92E-08 |
| WNW1109A | DOWN - C(2) | 6.98 | 825 | 0.6 | 0.005 | <3.68E-09 | 3.58±3.04E-09 | 8.39±0.89E-07 | <3.50E-08 | <3.69E-08 |
| WNW1109A | DOWN - C(3) | 6.97 | 954 | 0.7 | <0.004 | 6.63±5.57E-09 | <2.76E-09 | 5.74±0.88E-07 | <3.50E-08 | <3.69E-08 |
| WNW1109A | DOWN - C(4) | 7.02 | 770 | 0.6 | <0.004 | 9.26±5.95E-09 | 4.72±3.02E-09 | 4.17±0.81E-07 | <3.50E-08 | <3.69E-08 |
| WNW1109A | DOWN - C(6) | 7.00 | 801 | 0.7 | <0.004 | <4.76E-09 | 3.67±3.03E-09 | 4.76±0.85E-07 | <2.05E-08 | <2.12E-08 |
| WNW1109A | DOWN - C(7) | 7.19 | 836 | 0.6 | <0.004 | <3.89E-09 | 4.24±2.87E-09 | 5.47±0.83E-07 | <2.05E-08 | <2.12E-08 |
| WNW1109A | DOWN - C(5) | 6.65 | 837 | 0.7 | <0.004 | <4.34E-09 | 5.57±3.16E-09 | 6.14±0.84E-07 | <2.14E-08 | <2.51E-08 |
| WNW1109A | DOWN - C(8) | 7.03 | 847 | 0.7 | <0.004 | <4.39E-09 | <3.34E-09 | 5.43±0.84E-07 | <2.14E-08 | <2.51E-08 |
| WNW0909 | DOWN - C(4) | 6.73 | 1239 | 2.4 | 0.010 | <8.48E-09 | 8.18±0.78E-08 | 2.29±0.82E-07 | <2.27E-08 | <2.42E-08 |
| WNW0909 | DOWN - C(4) | 6.48 | 1431 | 8.3 | 0.012 | <7.24E-09 | 1.04±0.09E-07 | 1.72±0.08E-06 | <2.27E-08 | <2.42E-08 |
| WNW0909 | DOWN - C(6) | 6.68 | 1412 | 7.4 | 0.010 | <1.64E-08 | 1.38±0.10E-07 | 1.34±0.10E-06 | <3.16E-08 | <3.68E-08 |
| WNW0909 | DOWN - C(7) | 6.57 | 1332 | 6.2 | 0.009 | <1.38E-08 | 1.17±0.10E-07 | 9.67±0.96E-07 | <2.05E-08 | <2.12E-08 |
| WNW0909 | DOWN - C(5) | 6.87 | 1076 | 5.3 | 0.005 | <5.28E-09 | 9.38±0.98E-08 | 1.45±0.10E-06 | <2.64E-08 | <2.75E-08 |
| WNW0909 | DOWN - C(8) | 6.44 | 1032 | 5.8 | <0.004 | <4.48E-09 | 7.80±0.92E-08 | 1.57±0.10E-06 | <2.14E-08 | <2.51E-08 |
| WNW1102A | DOWN - D(1) | 7.04 | 1337 | 0.6 | 0.010 | 7.07±5.94E-09 | <4.88E-09 | 1.64±0.78E-07 | <2.14E-08 | <2.37E-08 |
| WNW1102A | DOWN - D(2) | 7.60 | 1233 | 0.4 | N/A | <5.27E-09 | 5.77±4.27E-09 | 8.47±8.15E-08 | <2.27E-08 | <2.42E-08 |
| WNW1102A | DOWN - D(3) | 6.94 | 1084 | 0.5 | <0.004 | <4.18E-09 | 4.72±4.34E-09 | 2.14±0.82E-07 | <3.50E-08 | <3.69E-08 |
| WNW1102A | DOWN - D(4) | 7.06 | 916 | 0.5 | <0.004 | <4.04E-09 | <2.84E-09 | 2.48±0.81E-07 | <3.50E-08 | <3.69E-08 |
| WNW1102A | DOWN - D(6) | 7.10 | 877 | 0.5 | <0.004 | <3.87E-09 | 5.18±2.90E-09 | 1.56±0.81E-07 | <3.16E-08 | <3.68E-08 |
| WNW1102A | DOWN - D(7) | 7.30 | 848 | 0.6 | <0.004 | <4.74E-09 | 4.98±3.02E-09 | 1.68±0.78E-07 | <2.05E-08 | <2.12E-08 |
| WNW1102A | DOWN - D(5) | 7.12 | 819 | 0.6 | <0.004 | <5.04E-09 | 6.47±3.23E-09 | 2.15±0.80E-07 | <2.64E-08 | <2.75E-08 |
| WNW1102A | DOWN - D(8) | 7.08 | 830 | 0.7 | <0.004 | <4.09E-09 | 4.15±3.74E-09 | 2.42±0.80E-07 | <2.14E-08 | <2.51E-08 |
| WNW1103A | DOWN - D(1) | 6.76 | 1607 | 1.0 | 0.005 | <1.55E-08 | 9.95±3.88E-09 | 4.17±0.82E-07 | <2.31E-08 | <1.92E-08 |
| WNW1103A | DOWN - D(2) | 7.32 | 1792 | 1.0 | 0.007 | <1.32E-08 | 8.24±3.62E-09 | 1.70±0.88E-07 | <2.14E-08 | <2.37E-08 |
| WNW1103A | DOWN - D(3) | 6.87 | 1507 | 1.4 | <0.004 | 1.51±1.17E-08 | 6.22±3.57E-09 | 6.48±0.87E-07 | <2.27E-08 | <2.42E-08 |
| WNW1103A | DOWN - D(4) | 6.96 | 1183 | 0.9 | <0.004 | <9.16E-09 | 6.04±3.48E-09 | 4.86±0.85E-07 | <3.50E-08 | <3.69E-08 |
| WNW1103A | DOWN - D(6) | 6.94 | 1106 | 1.0 | <0.004 | <8.32E-09 | 5.50±3.08E-09 | 4.16±0.82E-07 | <2.05E-08 | <2.12E-08 |
| WNW1103A | DOWN - D(7) | 6.93 | 1086 | 0.9 | <0.004 | <7.67E-09 | 4.85±3.19E-09 | 4.95±0.83E-07 | <2.64E-08 | <2.75E-08 |
| WNW1103A | DOWN - D(5) | 6.81 | 1055 | 0.9 | <0.004 | <1.17E-08 | 8.52±3.74E-09 | 3.40±0.82E-07 | <2.64E-08 | <2.75E-08 |
| WNW1103A | DOWN - D(8) | 7.04 | 1071 | 1.0 | <0.004 | <4.20E-09 | 7.64±5.09E-09 | 3.67±0.82E-07 | <2.64E-08 | <2.75E-08 |
| WNW1104A | DOWN - D(1) | 7.08 | 712 | 1.3 | <0.004 | <2.50E-09 | 5.56±2.87E-09 | 2.09±0.78E-07 | <3.43E-08 | <3.11E-08 |
| WNW1104A | DOWN - D(2) | 7.19 | 724 | 0.9 | <0.004 | 4.22±3.91E-09 | 6.05±3.02E-09 | 2.59±0.81E-07 | <2.09E-08 | 2.40±2.21E-08 |
| WNW1104A | DOWN - D(3) | 7.34 | 669 | 0.9 | <0.004 | <3.31E-09 | 3.95±2.98E-09 | <8.09E-08 | <3.50E-08 | <3.69E-08 |
| WNW1104A | DOWN - D(4) | 7.30 | 656 | 0.9 | <0.004 | <4.22E-09 | 5.04±2.79E-09 | 2.24±0.81E-07 | <3.50E-08 | <3.69E-08 |
| WNW1104A | DOWN - D(6) | 7.41 | 650 | 0.9 | <0.004 | 6.08±4.47E-09 | 3.12±2.90E-09 | 8.93±7.66E-08 | <3.16E-08 | <3.68E-08 |
| WNW1104A | DOWN - D(7) | 7.37 | 648 | 1.0 | <0.004 | <3.33E-09 | 5.98±2.71E-09 | 1.52±0.79E-07 | <2.64E-08 | <2.75E-08 |
| WNW1104A | DOWN - D(5) | 7.41 | 628 | 1.0 | <0.004 | <3.98E-09 | <2.70E-09 | <7.73E-08 | <2.64E-08 | <2.75E-08 |
| WNW1104A | DOWN - D(8) | 7.38 | 637 | 1.0 | <0.004 | <3.31E-09 | 4.20±2.94E-09 | 1.62±0.80E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Well WNW0909 was incorporated into the groundwater program in mid-1992.

Table E - 5 (concluded)

Contamination Indicator Parameters for the Weathered Lavery Till Unit

| Location Code | Hydraulic Position | pH | Conductivity μmhos/cm25C | TOC mg/L | TOX mg/L | Gross Alpha μCi/mL | Gross Beta μCi/mL | Tritium μCi/mL | Cs-137 μCi/mL | Co-60 μCi/mL |
|---------------|--------------------|------|-----------------------------|-------------|-------------|-----------------------|----------------------|-------------------|------------------|-----------------|
| WNW1107A | DOWN - D(1) | 6.51 | 1127 | 9.3 | 0.044 | <6.79E-09 | 6.53±4.80E-09 | 1.89±0.06E-05 | <2.14E-08 | <2.37E-08 |
| WNW1107A | DOWN - D(2) | 6.86 | 1068 | 7.8 | 0.022 | <5.55E-09 | 9.74±5.70E-09 | 1.85±0.06E-05 | <3.50E-08 | <3.69E-08 |
| WNW1107A | DOWN - D(3) | 6.49 | 1095 | 7.9 | 0.017 | <7.62E-09 | <5.23E-09 | 1.62±0.05E-05 | <2.27E-08 | <2.42E-08 |
| WNW1107A | DOWN - D(4) | 6.47 | 1449 | 14.5 | 0.024 | <8.69E-09 | 8.75±8.23E-09 | 2.01±0.07E-05 | <2.27E-08 | <2.42E-08 |
| WNW1107A | DOWN - D(6) | 6.47 | 1352 | 11.8 | 0.017 | <5.27E-09 | 1.24±0.78E-08 | 2.27±0.05E-05 | <2.05E-08 | <2.12E-08 |
| WNW1107A | DOWN - D(7) | 6.34 | 1311 | 14.7 | 0.019 | <6.99E-09 | 7.34±4.57E-09 | 2.21±0.07E-05 | <2.05E-08 | <2.12E-08 |
| WNW1107A | DOWN - D(5) | 6.37 | 1247 | 10.4 | 0.010 | <5.86E-09 | 6.92±5.62E-09 | 2.11±0.07E-05 | <2.14E-08 | <2.51E-08 |
| WNW1107A | DOWN - D(8) | 6.66 | 1239 | 13.5 | 0.073 | <4.13E-09 | 5.31±4.25E-09 | 2.45±0.08E-05 | <2.64E-08 | <2.75E-08 |
| WNW1110A | DOWN - D(1) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1110A | DOWN - D(2) | xxxx | xxxx | xxxx | xxxx | Dry | xxxx | xxxx | xxxx | xxxx |
| WNW1110A | DOWN - D(3) | N/A | N/A | N/A | N/A | 1.39±0.94E-08 | 1.73±1.59E-08 | <1.00E-07 | <7.10E-07 | <6.44E-07 |
| WNW1110A | DOWN - D(4) | 6.74 | 1750 | 1.1 | <0.004 | <1.47E-08 | 1.34±0.52E-08 | <8.10E-08 | <3.50E-08 | <3.69E-08 |
| WNW1110A | DOWN - D(6) | 6.84 | 1692 | 1.0 | <0.004 | <1.17E-08 | 8.77±3.65E-09 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1110A | DOWN - D(7) | 6.98 | 1759 | 1.1 | <0.004 | <8.05E-09 | 1.04±0.58E-08 | <1.00E-07 | <2.05E-08 | <2.12E-08 |
| WNW1110A | DOWN - D(5) | 6.75 | 1705 | 1.2 | <0.004 | <9.97E-09 | 1.02±0.62E-08 | <1.00E-07 | <2.64E-08 | <2.75E-08 |
| WNW1110A | DOWN - D(8) | 6.96 | 1565 | 1.2 | <0.004 | <8.29E-09 | 8.85±6.20E-09 | <1.00E-07 | <2.14E-08 | <2.51E-08 |

Hydraulic position is the general position in the geologic unit. Sample rep number is indicated in parenthesis next to the hydraulic position.

N/A - Not available.

Table E - 6
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Chloride | Sulfate | Nitrate + Nitrite-N | Ammonia | Bicarbonate Alkalinity (as mgCaCO ₃ /L) | Carbonate Alkalinity (as mgCaCO ₃ /L) | Phenols |
|---------------|--------------------|--------|----------|---------|---------------------|---------|---|---|---------|
| WNW0301 | UP | Jul-92 | 58.7 | 10.0 | 2.5 | <0.05 | 230 | <1.0 | < 0.005 |
| WNW0301 | UP | Dec-92 | 45.1 | 48.4 | 2.3 | <0.05 | 221 | <1.0 | < 0.005 |
| WNW0401 | UP | Jul-92 | 414 | 59.5 | 8.0 | <0.05 | 86.9 | <1.0 | < 0.005 |
| WNW0401 | UP | Dec-92 | 287 | 29.8 | 6.2 | <0.05 | 165 | <1.0 | < 0.005 |
| WNW0403 | UP | Jul-92 | 357 | 18.8 | 15 | <0.05 | 62.4 | <1.0 | < 0.005 |
| WNW0403 | UP | Dec-92 | 140 | 36.7 | 14 | <0.05 | 123 | <1.0 | < 0.005 |
| WNWNB1S | UP | Jul-92 | 36.2 | 27.7 | 16 | <0.05 | 49.7 | <1.0 | < 0.005 |
| WNWNB1S | UP | Dec-92 | 55.0 | 23.6 | 7.3 | <0.05 | 119 | <1.0 | < 0.005 |
| WNW0201 | DOWN - B | Jul-92 | 210 | 22.0 | <0.010 | <0.05 | 111 | <1.0 | < 0.005 |
| WNW0201 | DOWN - B | Dec-92 | 181 | 36.4 | 2.3 | <0.05 | 130 | <1.0 | 0.008 |
| WNW0706 | DOWN - B | Aug-92 | 4.5 | 322 | 0.33 | <0.05 | 233 | <1.0 | < 0.005 |
| WNW0706 | DOWN - B | Dec-92 | 9.6 | 356 | 0.23 | <0.05 | 231 | <1.0 | < 0.005 |
| WNW8613A | DOWN - B | Aug-92 | 78.7 | 85.0 | 2.0 | <0.05 | 183 | <1.0 | < 0.005 |
| WNW8613A | DOWN - B | Dec-92 | 76.9 | 51.6 | 1.5 | <0.05 | 178 | <1.0 | < 0.005 |
| WNW8613B | DOWN - B | Aug-92 | 117 | 306 | 3.3 | <0.05 | 93.7 | <1.0 | 0.006 |
| WNW8613B | DOWN - B | Dec-92 | 72.2 | 40.8 | 2.1 | <0.05 | 104 | <1.0 | < 0.005 |
| WNW8613C | DOWN - B | Aug-92 | 14.6 | 160 | 2.9 | <0.05 | 209 | <1.0 | < 0.005 |
| WNW8613C | DOWN - B | Dec-92 | 12.4 | 37.4 | 2.2 | <0.05 | 176 | <1.0 | < 0.005 |
| WNW0103 | DOWN - C | Aug-92 | 137 | 56.0 | 0.16* | <0.05 | 257 | <10.0 | < 0.005 |
| WNW0103 | DOWN - C | Jul-92 | 132 | 58.0 | 0.18 | <0.05 | 250 | <1.0 | < 0.005 |
| WNW0103 | DOWN - C | Dec-92 | 86.1 | 102 | 0.28 | 0.05 | 247 | <1.0 | < 0.005 |
| WNW0103 | DOWN - C | Aug-92 | 141 | 21.9 | 0.24 | 6.2 | <2.0 | <2.0 | <0.002 |
| WNW0103 | DOWN - C | Dec-92 | 1002 | 10.6 | <0.050 | 2.2 | 48.3 | <1.0 | 0.016 |
| WNW0104 | DOWN - C | Aug-92 | 45.6 | 27.6 | 4.4 | 0.08 | 202 | <1.0 | < 0.002 |
| WNW0104 | DOWN - C | Dec-92 | 176 | 32.3 | 1.3 | <0.03 | 203 | <1.0 | <0.006 |
| WNW0111 | DOWN - C | Aug-92 | 37.8 | 105 | 0.26 | 0.21 | 272 | <1.0 | < 0.002 |
| WNW0111 | DOWN - C | Dec-92 | 6.5 | 60.9 | 0.14 | 0.48 | 193 | <1.0 | <0.005 |
| WNW0203 | DOWN - C | Jul-92 | 376 | 54.0 | 0.71 | <0.05 | 263 | <1.0 | < 0.005 |
| WNW0203 | DOWN - C | Dec-92 | 329 | 60.1 | 2.0 | <0.05 | 239 | <1.0 | < 0.005 |

*Hydraulic position is the general position in the geologic unit.
Hydroxide alkalinity (as mgCaCO₃/L) at location WNW0103 = 1,080 in August and <1 in December.
* Nitrate-N only.*

Table E - 6 (continued)

Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Calcium | | Magnesium | | Sodium | | Potassium | | Iron | | Manganese | |
|---------------|--------------------|--------|---------|-------|-----------|-------|--------|-------|-----------|-------|--------|--------|-----------|-------|
| | | | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| WNW0301 | UP | Jul-92 | 88.7 | 94.7 | 21.1 | 8.53 | 21.5 | 23.3 | 6.30 | 1.89 | 76.6 | 0.728 | 2.20 | 0.119 |
| WNW0301 | UP | Dec-92 | 94.4 | 93.0 | 18.8 | 8.43 | 20.2 | 22.5 | 6.37 | 1.66 | 66.6 | 1.10 | 1.68 | 0.018 |
| WNW0401 | UP | Jul-92 | 111 | 130 | 9.15 | 9.87 | 113 | 124 | 2.55 | 2.32 | 3.76 | 0.178 | 0.072 | 0.027 |
| WNW0401 | UP | Dec-92 | 126 | 133 | 13.8 | 14.1 | 109 | 109 | 1.56 | 1.60 | 0.985 | 0.032 | 0.025 | 0.008 |
| WNW0403 | UP | Jul-92 | 172 | 188 | 15.7 | 16.0 | 24.4 | 25.8 | 2.55 | 2.30 | 33.3 | 3.92 | 0.487 | 0.345 |
| WNW0403 | UP | Dec-92 | 112 | 121 | 12.1 | 9.59 | 30.0 | 34.1 | 4.27 | 1.71 | 31.5 | 0.794 | 0.344 | 0.009 |
| WNWNB1S | UP | Jul-92 | 32.2 | 32.0 | 4.10 | 4.45 | 27.9 | 27.6 | 1.17 | 1.41 | 0.667 | <0.008 | 0.065 | 0.011 |
| WNWNB1S | UP | Dec-92 | 45.6 | 46.1 | 5.32 | 5.08 | 51.0 | 58.9 | 1.39 | 1.11 | 1.82 | 0.044 | 0.030 | 0.004 |
| WNW0201 | DOWN - B | Jul-92 | 87.5 | 79.5 | 8.33 | 9.60 | 69.1 | 72.6 | 4.32 | 4.55 | 2.21 | 2.30 | 1.84 | 2.15 |
| WNW0201 | DOWN - B | Dec-92 | 80.2 | 82.8 | 8.06 | 8.28 | 85.5 | 86.8 | 4.35 | 4.57 | 0.170 | 0.080 | 0.762 | 0.786 |
| WNW0706 | DOWN - B | Aug-92 | 86.8 | 93.5 | 16.1 | 13.8 | 3.76 | 6.02 | 1.70 | 4.98 | 10.4 | 0.468 | 0.429 | 0.032 |
| WNW0706 | DOWN - B | Dec-92 | 107 | 116 | 18.8 | 15.9 | 4.80 | 6.00 | 2.65 | 0.982 | 31.5 | 0.430 | 0.536 | 0.014 |
| WNW8613A | DOWN - B | Aug-92 | 79.8 | 115 | 13.9 | 16.9 | 15.2 | 18.8 | 0.652 | 1.73 | 5.75 | 0.381 | 0.270 | 0.081 |
| WNW8613A | DOWN - B | Dec-92 | 88.9 | 92.2 | 15.2 | 15.0 | 14.7 | 17.0 | 2.71 | 2.56 | 16.8 | 0.482 | 0.380 | 0.032 |
| WNW8613B | DOWN - B | Aug-92 | 86.8 | 81.2 | 12.2 | 15.1 | 19.1 | 24.2 | 5.22 | 1.22 | 24.7 | 5.18 | 0.687 | 0.407 |
| WNW8613B | DOWN - B | Dec-92 | 68.8 | 70.0 | 13.2 | 10.4 | 16.0 | 20.5 | 4.61 | 2.86 | 43.0 | 0.394 | 1.17 | 0.046 |
| WNW8613C | DOWN - B | Aug-92 | 96.2 | 81.2 | 19.1 | 17.1 | 10.9 | 18.1 | 6.32 | 2.53 | 17.0 | 0.530 | 0.584 | 0.134 |
| WNW8613C | DOWN - B | Dec-92 | 77.2 | 66.6 | 16.6 | 10.8 | 5.20 | 6.70 | 5.06 | 3.78 | 20.7 | 0.392 | 0.670 | 0.059 |
| WNWSP008 | DOWN - C | Jun-92 | 98.0 | 98.7 | 15.9 | 16.2 | 71.3 | 66.9 | 1.40 | 1.32 | 0.034 | 0.036 | 2.65 | 2.74 |
| WNWSP008 | DOWN - C | Jul-92 | 95.9 | 112 | 12.8 | 13.5 | 60.4 | 62.4 | 1.44 | 1.53 | <0.012 | 0.014 | 1.67 | 1.76 |
| WNWSP008 | DOWN - C | Dec-92 | 118 | 122 | 15.1 | 15.8 | 58.1 | 60.9 | 1.41 | 1.58 | 0.035 | 0.030 | 1.74 | 1.80 |
| WNW0103 | DOWN - C | Aug-92 | 30.2 | 27.5 | 1.39 | 1.32 | 541 | 474 | 0.888 | 0.671 | 2.00 | 0.990 | 0.209 | 0.156 |
| WNW0103 | DOWN - C | Dec-92 | 186 | 205 | 12.6 | 10.7 | 389 | 362 | 2.24 | 1.95 | 0.888 | 0.040 | 0.198 | 0.064 |
| WNW0104 | DOWN - C | Aug-92 | 114 | 115 | 17.6 | 17.2 | 57.8 | 60.3 | 2.45 | 2.38 | 1.63 | 0.012 | 0.163 | 0.087 |
| WNW0104 | DOWN - C | Dec-92 | 107 | 104 | 16.1 | 15.5 | 51.9 | 51.1 | 2.50 | 2.07 | 2.56 | 0.041 | 0.169 | 0.075 |
| WNW0111 | DOWN - C | Aug-92 | 101 | 101 | 14.2 | 14.2 | 32.7 | 33.1 | 8.92 | 9.17 | 0.102 | 0.074 | 3.58 | 3.70 |
| WNW0111 | DOWN - C | Dec-92 | 70.0 | 67.3 | 9.81 | 9.61 | 11.9 | 11.7 | 5.98 | 5.67 | 2.44 | 0.347 | 4.01 | 3.82 |
| WNW0203 | DOWN - C | Jul-92 | 132 | 114 | 11.8 | 12.8 | 245 | 241 | 4.90 | 4.60 | 3.68 | 0.150 | 0.085 | 0.025 |
| WNW0203 | DOWN - C | Dec-92 | 137 | 142 | 12.5 | 12.6 | 160 | 163 | 3.95 | 4.05 | 1.99 | 0.090 | 0.046 | 0.017 |

Hydraulic position is the general position in the geologic unit.

Table E - 6 (continued)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Chloride | Sulfate | Nitrate + Nitrite-N | Ammonia | Bicarbonate Alkalinity (as mgCaCO ₃ /L) | Carbonate Alkalinity (as mgCaCO ₃ /L) | Phenols |
|---------------|--------------------|--------|----------|---------|---------------------|---------|--|--|---------|
| WNW0205 | DOWN - C | Jul-92 | 2470 | 110 | 0.92 | <0.05 | 155 | <1.0 | < 0.005 |
| WNW0205 | DOWN - C | Dec-92 | 495 | 99.0 | 0.79 | <0.05 | 178 | <1.0 | < 0.005 |
| WNW0305 | DOWN - C | Jul-92 | 285 | 22.7 | 0.091 | 0.23 | 191 | <1.0 | < 0.005 |
| WNW0305 | DOWN - C | Dec-92 | 196 | 34.8 | 0.13 | 0.25 | 218 | <1.0 | 0.010 |
| WNW0307 | DOWN - C | Jul-92 | 252 | 21.1 | 0.90 | 0.12 | 175 | <1.0 | 0.005 |
| WNW0307 | DOWN - C | Dec-92 | 191 | 33.6 | 0.75 | 0.10 | 204 | <1.0 | < 0.005 |
| WNW0406 | DOWN - C | Jul-92 | 16.8 | 70.0 | 2.4 | 0.37 | 193 | <1.0 | 0.005 |
| WNW0406 | DOWN - C | Dec-92 | 8.4 | 109 | 0.88 | 0.25 | 94.4 | <1.0 | < 0.005 |
| WNW0408 | DOWN - C | Aug-92 | 275 | 30.9 | 0.16 | 0.06 | 191 | <1.0 | < 0.002 |
| WNW0408 | DOWN - C | Dec-92 | 33.0 | 41.2 | 0.75 | <0.03 | 314 | <1.0 | 0.006 |
| WNW0501 | DOWN - C | Aug-92 | 195 | 29.5 | 0.13 | 0.08 | 151 | <1.0 | < 0.002 |
| WNW0501 | DOWN - C | Dec-92 | 132 | 36.1 | 3.5 | <0.03 | 161 | <1.0 | 0.005 |
| WNW0502 | DOWN - C | Aug-92 | 200 | 29.5 | 1.4 | 0.09 | 164 | <1.0 | < 0.002 |
| WNW0502 | DOWN - C | Dec-92 | 136 | 39.4 | 4.6 | <0.03 | 170 | <1.0 | <0.005 |
| WNW0602 | DOWN - C | Jul-92 | 43.4 | 36.0 | <0.010 | 0.18 | 196 | <1.0 | < 0.005 |
| WNW0602 | DOWN - C | Dec-92 | 23.7 | 84.0 | 0.013 | 0.10 | 200 | <1.0 | < 0.005 |
| WNW0603 | DOWN - C | Jul-92 | 20.0 | 110 | 2.7 | <0.05 | 172 | <1.0 | 0.006 |
| WNW0603 | DOWN - C | Dec-92 | 19.4 | 190 | 0.57 | <0.05 | 260 | <1.0 | < 0.005 |
| WNW0604 | DOWN - C | Jul-92 | 13.2 | 73.3 | 0.011 | 1.1 | 153 | <1.0 | < 0.005 |
| WNW0604 | DOWN - C | Dec-92 | 7.2 | 78.8 | 0.040 | 1.2 | 174 | <1.0 | < 0.005 |
| WNW8605 | DOWN - C | Aug-92 | 90.5 | 107 | 0.35 | 1.8 | 325 | <1.0 | < 0.002 |
| WNW8605 | DOWN - C | Dec-92 | 220 | 34.6 | <0.050 | 1.2 | 176 | <1.0 | 0.006 |
| WNW8606 | DOWN - C | Jul-92 | 2290 | 126 | 4.0 | <0.05 | 155 | <1.0 | 0.006 |
| WNW8606 | DOWN - C | Dec-92 | 541 | 86.1 | 0.76 | <0.05 | 195 | <1.0 | < 0.005 |
| WNW8607 | DOWN - C | Jul-92 | 22.1 | 140 | 3.1 | <0.05 | 162 | <1.0 | 0.006 |
| WNW8607 | DOWN - C | Dec-92 | 6.0 | 116 | 1.2 | <0.05 | 200 | <1.0 | 0.011 |
| WNW8608 | DOWN - C | Jul-92 | 16.6 | 141 | 0.48 | 1.3 | 190 | <1.0 | < 0.005 |
| WNW8608 | DOWN - C | Dec-92 | 7.3 | 93.3 | 0.46 | 1.0 | 188 | <1.0 | < 0.005 |
| WNW8609 | DOWN - C | Jul-92 | 55.0 | 49.2 | 11 | <0.05 | 237 | <1.0 | < 0.005 |
| WNW8609 | DOWN - C | Dec-92 | 33.1 | 45.2 | 6.1 | <0.05 | 250 | <1.0 | 0.010 |

Hydraulic position is the general position in the geologic unit.

Table E - 6 (continued)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Calcium | | Magnesium | | Sodium | | Potassium | | Iron | | Manganese | |
|---------------|--------------------|--------|---------|-------|-----------|---------|--------|-------|-----------|-------|-------|--------|-----------|-------|
| | | | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| WNW0205 | DOWN - C | Jul-92 | 183 | 177 | 20.1 | 22.3 | 1510 | 1680 | 9.40 | 9.88 | 0.980 | 0.432 | 0.091 | 0.106 |
| WNW0205 | DOWN - C | Dec-92 | 20.1 | 22.0 | 2.62 | 2.74 | 381 | 448 | 2.37 | 2.65 | 1.45 | 0.200 | 0.046 | 0.028 |
| WNW0305 | DOWN - C | Jul-92 | 100 | 112 | 12.9 | 12.9 | 118 | 125 | 4.10 | 3.34 | 6.50 | 0.045 | 1.82 | 1.78 |
| WNW0305 | DOWN - C | Dec-92 | 107 | 108 | 11.2 | 11.1 | 104 | 113 | 2.97 | 2.86 | 1.26 | 0.046 | 1.43 | 1.42 |
| WNW0307 | DOWN - C | Jul-92 | 82.3 | 98.7 | 10.2 | 11.2 | 90.0 | 96.7 | 2.52 | 2.66 | 21.2 | 0.102 | 3.68 | 0.371 |
| WNW0307 | DOWN - C | Dec-92 | 87.1 | 86.2 | 8.97 | 8.76 | 82.0 | 91.8 | 2.18 | 2.02 | 1.14 | 0.562 | 0.250 | 0.182 |
| WNW0406 | DOWN - C | Jul-92 | 85.9 | 89.2 | 12.9 | 13.6 | 13.5 | 15.1 | 2.18 | 2.14 | 4.95 | 0.313 | 3.45 | 3.25 |
| WNW0406 | DOWN - C | Dec-92 | 89.4 | 93.6 | 11.4 | 11.8 | 12.1 | 13.2 | 2.46 | 2.45 | 2.48 | 0.466 | 3.68 | 3.28 |
| WNW0408 | DOWN - C | Aug-92 | 136 | 133 | 22.8 | 22.0 | 71.1 | 69.5 | 3.10 | 3.39 | 1.45 | 0.023 | 0.215 | 0.180 |
| WNW0408 | DOWN - C | Dec-92 | 110 | 103 | 21.3 | 18.7 | 66.3 | 64.7 | 4.02 | 3.00 | 9.78 | 0.050 | 0.209 | 0.113 |
| WNW0501 | DOWN - C | Aug-92 | 119 | 114 | 18.3 | 15.6 | 46.0 | 44.6 | 2.80 | 2.58 | 9.23 | 0.088 | 0.248 | 0.050 |
| WNW0501 | DOWN - C | Dec-92 | 92.0 | 85.9 | 13.1 | 11.9 | 42.2 | 41.2 | 2.14 | 1.61 | 3.39 | 0.005 | 0.087 | 0.011 |
| WNW0502 | DOWN - C | Aug-92 | 121 | 119 | 17.5 | 17.7 | 46.7 | 45.9 | 2.09 | 1.26 | 2.51 | 0.139 | 0.026 | 0.003 |
| WNW0502 | DOWN - C | Dec-92 | 96.9 | 96.0 | 13.9 | 13.8 | 41.0 | 40.8 | 2.07 | 1.73 | 2.95 | 0.054 | 0.030 | 0.003 |
| WNW0602 | DOWN - C | Jul-92 | 69.5 | 86.8 | 10.7 | 11.1 | 17.3 | 18.1 | 2.11 | 1.92 | 6.48 | 0.445 | 7.56 | 7.72 |
| WNW0602 | DOWN - C | Dec-92 | 74.2 | 79.6 | 10.2 | 10.3 | 17.4 | 19.2 | 2.24 | 1.62 | 6.20 | 0.570 | 4.39 | 4.20 |
| WNW0603 | DOWN - C | Jul-92 | 124 | 134 | 16.3 | 19.2 | 7.62 | 8.50 | 1.44 | 1.74 | 0.779 | 0.026 | 0.256 | 0.289 |
| WNW0603 | DOWN - C | Dec-92 | 140 | 153 | 19.4 | 19.6 | 7.20 | 7.68 | 2.27 | 1.76 | 1.56 | 0.050 | 0.414 | 0.439 |
| WNW0604 | DOWN - C | Jul-92 | 61.6 | 51.2 | 9.48 | 9.62 | 6.24 | 5.82 | 0.682 | 0.833 | 3.62 | 3.58 | 17.6 | 16.9 |
| WNW0604 | DOWN - C | Dec-92 | 64.0 | 71.8 | 10.4 | 11.4 | 6.67 | 7.40 | 1.00 | 1.06 | 4.30 | 4.47 | 15.8 | 17.1 |
| WNW8605 | DOWN - C | Aug-92 | 105 | 108 | 16.7 | 17.0 | 80.2 | 82.1 | 12.0 | 12.5 | 4.89 | 4.95 | 10.7 | 10.9 |
| WNW8605 | DOWN - C | Dec-92 | 89.0 | 87.1 | 14.0 | 13.8 | 52.0 | 51.3 | 8.65 | 7.98 | 4.13 | 4.08 | 9.19 | 9.05 |
| WNW8606 | DOWN - C | Jul-92 | 188 | 183 | 20.4* | <0.025* | 5310 | 5130 | 8.45 | 8.68 | 0.300 | 0.320 | 0.119 | 0.113 |
| WNW8606 | DOWN - C | Dec-92 | 34.9 | 36.9 | 4.32 | 4.57 | 418 | 457 | 2.72 | 2.98 | 0.240 | 0.160 | 0.036 | 0.034 |
| WNW8607 | DOWN - C | Jul-92 | 95.2 | 102 | 12.6 | 13.6 | 14.7 | 15.2 | 2.34 | 2.62 | 0.021 | <0.012 | 0.020 | 0.023 |
| WNW8607 | DOWN - C | Dec-92 | 93.7 | 93.1 | 11.3 | 11.6 | 10.0 | 11.7 | 3.55 | 3.26 | 0.140 | <0.020 | 0.006 | 0.005 |
| WNW8608 | DOWN - C | Jul-92 | 79.2 | 86.4 | 10.1 | 11.0 | 16.9 | 18.4 | 2.26 | 2.33 | 2.54 | 0.724 | 17.7 | 21.2 |
| WNW8608 | DOWN - C | Dec-92 | 70.9 | 76.8 | 8.98 | 9.62 | 11.8 | 12.8 | 2.36 | 2.47 | 3.45 | 0.515 | 9.65 | 10.1 |
| WNW8609 | DOWN - C | Jul-92 | 107 | 118 | 15.4 | 16.7 | 12.9 | 13.9 | 1.37 | 1.51 | 0.022 | <0.012 | 0.010 | 0.008 |
| WNW8609 | DOWN - C | Dec-92 | 109 | 111 | 14.1 | 14.5 | 11.7 | 15.5 | 1.44 | 1.54 | 0.100 | <0.020 | 0.006 | 0.006 |

Hydraulic position is the general position in the geologic unit.

** Apparent analytical outlier.*

Table E - 6 (continued)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Chloride | Sulfate | Nitrate + Nitrite-N | Ammonia | Bicarbonate Alkalinity (as mgCaCO ₃ /L) | Carbonate Alkalinity (as mgCaCO ₃ /L) | Phenols |
|---------------|--------------------|--------|----------|---------|---------------------|---------|--|--|---------|
| WNDMPNE | DOWN - D | Aug-92 | 101 | 36.6 | 1.9 | 0.08 | 190 | <1.0 | < 0.005 |
| WNDMPNE | DOWN - D | Dec-92 | 37.2 | 43.2 | 0.72 | 0.06 | 134 | <1.0 | < 0.005 |
| WNGSEEP | DOWN - D | Aug-92 | 64.5 | 65.2 | 0.88 | <0.05 | 138 | <1.0 | 0.007 |
| WNGSEEP | DOWN - D | Dec-92 | 53.1 | 48.3 | 1.0 | <0.05 | 145 | <1.0 | < 0.005 |
| WNW0105 | DOWN - D | Jul-92 | 172 | 46.0 | 1.0 | <0.05 | 203 | <1.0 | < 0.005 |
| WNW0105 | DOWN - D | Dec-92 | 197 | 43.2 | 0.94 | <0.05 | 200 | <1.0 | < 0.005 |
| WNW0106 | DOWN - D | Jul-92 | 147 | 18.0 | 0.14 | <0.05 | 231 | <1.0 | < 0.005 |
| WNW0106 | DOWN - D | Dec-92 | 154 | 153 | 0.35 | <0.05 | 236 | <1.0 | < 0.005 |
| WNW0116 | DOWN - D | Jul-92 | 156 | 33.2 | 2.4 | <0.05 | 205 | <1.0 | < 0.005 |
| WNW0116 | DOWN - D | Dec-92 | 152 | 67.0 | 1.6 | <0.05 | 200 | <1.0 | < 0.005 |
| WNW0207 | DOWN - D | Jul-92 | <1.0 | 23.8 | 0.023 | 0.27 | 483 | <1.0 | 0.005 |
| WNW0207 | DOWN - D | Dec-92 | <1.0 | 43.0 | 0.15 | 0.26 | 351 | <1.0 | < 0.005 |
| WNW0601 | DOWN - D | Jul-92 | 56.5 | 62.0 | 0.034 | <0.05 | 98.3 | <1.0 | 0.008 |
| WNW0601 | DOWN - D | Dec-92 | 13.8 | 85.6 | 0.067 | <0.05 | 99.8 | <1.0 | < 0.005 |
| WNW0605 | DOWN - D | Jul-92 | 25.2 | 65.0 | 0.065 | <0.05 | 113 | <1.0 | 0.006 |
| WNW0605 | DOWN - D | Dec-92 | 13.7 | 91.0 | 0.099 | <0.05 | 132 | <1.0 | < 0.005 |
| WNW0801 | DOWN - D | Aug-92 | 190 | 35.0 | 0.44 | <0.05 | 203 | <1.0 | < 0.005 |
| WNW0801 | DOWN - D | Dec-92 | 27.1 | 36.4 | 0.83 | <0.05 | 190 | <1.0 | < 0.005 |
| WNW0802 | DOWN - D | Aug-92 | 71.7 | 25.9 | <0.010 | 0.05 | 162 | <1.0 | < 0.005 |
| WNW0802 | DOWN - D | Dec-92 | 1.1 | 30.8 | 0.020 | <0.05 | 116 | <1.0 | < 0.005 |
| WNW0803 | DOWN - D | Aug-92 | 95.9 | 175 | 0.24 | <0.05 | 309 | <1.0 | 0.029 |
| WNW0803 | DOWN - D | Dec-92 | 109 | 240 | 0.27 | <0.05 | 324 | <1.0 | < 0.005 |
| WNW0804 | DOWN - D | Aug-92 | 70.0 | 62.5 | 0.069 | <0.05 | 204 | <1.0 | < 0.005 |
| WNW0804 | DOWN - D | Dec-92 | 49.4 | 100 | 0.072 | <0.05 | 236 | <1.0 | < 0.005 |
| WNW8603 | DOWN - D | Jul-92 | 191 | 37.8 | 2.1 | <0.05 | 209 | <1.0 | < 0.005 |
| WNW8603 | DOWN - D | Dec-92 | 197 | 34.7 | 2.1 | <0.05 | 208 | <1.0 | < 0.005 |
| WNW8604 | DOWN - D | Aug-92 | 201 | 28.1 | 0.22 | 0.07 | 207 | <1.0 | < 0.002 |
| WNW8604 | DOWN - D | Dec-92 | 212 | 19.9 | 1.4 | <0.03 | 230 | <1.0 | < 0.006 |
| WNW8612 | DOWN - D | Aug-92 | 78.0 | 57.0 | <0.010 | <0.05 | 253 | <1.0 | < 0.005 |
| WNW8612 | DOWN - D | Dec-92 | 76.2 | 79.6 | <0.010 | <0.05 | 254 | <1.0 | < 0.005 |

Hydraulic position is the general position in the geologic unit.

Table E - 6 (concluded)
Groundwater Quality Parameters (mg/L) for the Sand and Gravel Unit

| Location Code | Hydraulic Position | Date | Calcium | | Magnesium | | Sodium | | Potassium | | Iron | | Manganese | |
|---------------|--------------------|--------|---------|-------|-----------|-------|--------|-------|-----------|-------|--------|--------|-----------|-------|
| | | | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. | Total | Diss. |
| WNDMPNE | DOWN - D | Aug-92 | 94.5 | 88.8 | 13.4 | 13.9 | 35.0 | 36.4 | 1.70 | 1.90 | 0.390 | 0.092 | 1.38 | 1.32 |
| WNDMPNE | DOWN - D | Dec-92 | 59.0 | 57.5 | 7.78 | 7.32 | 15.0 | 16.8 | 2.02 | 1.59 | 1.06 | 0.301 | 0.634 | 0.574 |
| WNGSEEP | DOWN - D | Aug-92 | 75.1 | 74.5 | 11.6 | 12.6 | 20.6 | 21.7 | 1.41 | 5.65 | 0.020 | 0.871 | 0.003 | 0.038 |
| WNGSEEP | DOWN - D | Dec-92 | 73.1 | 73.4 | 10.6 | 10.7 | 18.1 | 18.5 | 1.41 | 1.47 | <0.020 | <0.020 | <0.003 | 0.003 |
| WNW0105 | DOWN - D | Jul-92 | 111 | 125 | 19.4 | 20.9 | 38.2 | 41.1 | 1.32 | 1.26 | 9.95 | 0.022 | 2.69 | 2.44 |
| WNW0105 | DOWN - D | Dec-92 | 118 | 126 | 19.5 | 21.0 | 44.7 | 48.8 | 1.32 | 1.36 | 6.15 | 0.050 | 3.09 | 3.20 |
| WNW0106 | DOWN - D | Jul-92 | 102 | 110 | 20.8 | 19.3 | 41.1 | 41.7 | 3.65 | 2.17 | 17.0 | 0.121 | 5.30 | 4.98 |
| WNW0106 | DOWN - D | Dec-92 | 134 | 139 | 23.6 | 20.2 | 41.9 | 47.3 | 4.36 | 1.82 | 25.4 | 0.125 | 5.74 | 4.94 |
| WNW0116 | DOWN - D | Jul-92 | 96.0 | 96.1 | 15.4 | 15.0 | 60.7 | 62.8 | 2.40 | 1.83 | 10.7 | 0.128 | 1.29 | 0.903 |
| WNW0116 | DOWN - D | Dec-92 | 116 | 117 | 16.7 | 16.6 | 61.4 | 64.4 | 2.88 | 1.61 | 5.80 | 0.350 | 0.659 | 0.185 |
| WNW0207 | DOWN - D | Jul-92 | 135 | 160 | 26.8 | 29.3 | 7.58 | 8.88 | 1.30 | 1.38 | 5.18 | 2.68 | 1.88 | 2.06 |
| WNW0207 | DOWN - D | Dec-92 | 109 | 120 | 22.7 | 23.6 | 5.07 | 6.10 | 2.14 | 1.45 | 11.8 | 2.12 | 2.62 | 2.84 |
| WNW0601 | DOWN - D | Jul-92 | 50.8 | 43.0 | 8.29 | 7.30 | 21.2 | 22.6 | 2.32 | 1.72 | 31.6 | 5.80 | 0.481 | 0.327 |
| WNW0601 | DOWN - D | Dec-92 | 44.2 | 47.5 | 7.73 | 7.16 | 14.4 | 16.7 | 2.00 | 1.76 | 9.30 | 1.12 | 0.218 | 0.017 |
| WNW0605 | DOWN - D | Jul-92 | 59.0 | 53.5 | 31.1 | 8.51 | 20.8 | 22.9 | 1.91 | 2.18 | 2.81 | 0.140 | 0.185 | 0.007 |
| WNW0605 | DOWN - D | Dec-92 | 50.3 | 55.2 | 9.38 | 8.32 | 13.7 | 16.0 | 2.22 | 1.55 | 6.90 | 0.885 | 0.087 | 0.008 |
| WNW0801 | DOWN - D | Aug-92 | 111 | 106 | 14.9 | 15.5 | 65.3 | 66.4 | 1.98 | 2.22 | 0.322 | 0.040 | 0.755 | 0.723 |
| WNW0801 | DOWN - D | Dec-92 | 108 | 114 | 13.4 | 14.0 | 52.2 | 70.5 | 1.78 | 1.78 | 0.286 | 0.020 | 0.682 | 0.684 |
| WNW0802 | DOWN - D | Aug-92 | 82.2 | 71.8 | 6.73 | 6.84 | 19.2 | 18.9 | 0.818 | 0.889 | 0.068 | 0.026 | 0.437 | 0.434 |
| WNW0802 | DOWN - D | Dec-92 | 34.2 | 33.6 | 4.07 | 4.08 | 9.75 | 9.95 | 1.14 | 0.675 | 0.877 | 0.028 | 0.170 | 0.074 |
| WNW0803 | DOWN - D | Aug-92 | 178 | 141 | 35.0 | 36.0 | 23.0 | 23.3 | 1.33 | 1.43 | 0.408 | 0.016 | 0.284 | 0.276 |
| WNW0803 | DOWN - D | Dec-92 | 191 | 176 | 32.8 | 34.8 | 20.2 | 22.6 | 1.41 | 1.38 | 0.265 | <0.020 | 0.300 | 0.316 |
| WNW0804 | DOWN - D | Aug-92 | 86.9 | 85.4 | 11.5 | 12.0 | 29.3 | 31.8 | 1.60 | 1.64 | 2.54 | 0.031 | 0.074 | 0.003 |
| WNW0804 | DOWN - D | Dec-92 | 101 | 106 | 12.0 | 12.6 | 21.4 | 22.7 | 1.55 | 1.47 | 0.493 | <0.020 | 0.134 | 0.124 |
| WNW8603 | DOWN - D | Jul-92 | 114 | 122 | 19.5 | 21.2 | 40.1 | 42.9 | 1.75 | 2.03 | 0.016 | <0.012 | 0.007 | 0.007 |
| WNW8603 | DOWN - D | Dec-92 | 128 | 133 | 21.6 | 22.5 | 48.4 | 50.4 | 2.04 | 2.17 | 0.030 | <0.030 | 0.008 | 0.007 |
| WNW8604 | DOWN - D | Aug-92 | 125 | 122 | 20.1 | 20.2 | 53.6 | 53.7 | 2.43 | 2.13 | 0.076 | 0.026 | 0.024 | 0.026 |
| WNW8604 | DOWN - D | Dec-92 | 117 | 117 | 18.3 | 18.6 | 50.1 | 49.9 | 2.45 | 2.14 | 0.018 | 0.021 | 0.022 | 0.023 |
| WNW8612 | DOWN - D | Aug-92 | 104 | 102 | 26.4 | 27.2 | 15.2 | 15.7 | 0.980 | 1.13 | 0.671 | 0.565 | 0.108 | 0.107 |
| WNW8612 | DOWN - D | Dec-92 | 108 | 122 | 23.9 | 24.5 | 13.1 | 15.4 | 1.05 | 1.04 | 0.896 | 0.398 | 0.106 | 0.105 |

Hydraulic position is the general position in the geologic unit.