

Appendix

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-1 | 1076.41 | 1072.43 | 1074.42 | 1071.11 | 3.31 |
| MW-2 | 1070.48 | 1066.47 | 1068.47 | 1067.20 | 1.27 |
| MW-9 | 1084.39 | 1083.62 | 1084.01 | 1079.76 | 4.25 |
| MW-10 | 1085.05 | 1081.04 | 1083.05 | 1079.65 | 3.40 |
| MW-22 | 1067.08 | 1055.05 | 1061.07 | 1065.05 | -3.98 |
| MW-24 | 1075.00 | 1063.50 | 1069.25 | 1065.75 | 3.50 |
| MW-25 | 1064.01 | 1055.51 | 1059.76 | 1066.05 | -6.29 |
| MW-27 | 1073.14 | 1064.58 | 1068.86 | 1063.75 | 5.12 |
| MW-28 | 1073.18 | 1067.89 | 1070.54 | 1063.79 | 6.75 |
| MW-29 | 1069.25 | 1049.64 | 1059.44 | 1063.17 | -3.73 |
| MW-30 | 1062.89 | 1060.11 | 1061.50 | 1067.85 | -6.35 |
| MW-31 | 1035.59 | 1033.39 | 1034.49 | 1057.69 | -23.20 |
| MW-32 | 1065.00 | 1055.13 | 1060.07 | 1065.00 | -4.93 |
| MW-64 | 1040.28 | 1037.13 | 1038.70 | 1059.06 | -20.36 |
| MW-72 | 1060.69 | 1055.12 | 1057.91 | 1051.86 | 6.05 |
| MW-75 | 1057.71 | 1052.15 | 1054.93 | 1047.84 | 7.09 |
| MW-76 | 1036.52 | 1024.87 | 1030.69 | 1030.32 | 0.37 |
| MW-78 | 1045.30 | 1034.55 | 1039.93 | 1033.48 | 6.45 |
| MW-80 | 1032.53 | 1023.67 | 1028.10 | 1031.66 | -3.56 |
| MW-81 | 1064.59 | 1067.11 | 1065.85 | 1067.88 | -2.03 |
| MW-82 | 1078.65 | 1078.09 | 1078.37 | 1075.74 | 2.63 |
| MW-83 | 1084.68 | 1081.70 | 1083.19 | 1073.38 | 9.81 |
| MW-84 | 1081.23 | 1079.95 | 1080.59 | 1072.35 | 8.24 |
| MW-85 | 1084.28 | 1083.60 | 1083.94 | 1072.10 | 11.84 |
| MW-86 | 1097.50 | 1087.99 | 1092.74 | 1087.65 | 5.09 |
| MW-91 | 1047.51 | 1043.25 | 1045.38 | 1065.44 | -20.06 |
| MW-92 | 1061.63 | 1054.43 | 1058.03 | 1065.51 | -7.48 |
| MW-93 | 1067.78 | 1060.81 | 1064.30 | 1066.34 | -2.04 |
| MW-96 | 1071.27 | 1065.20 | 1068.23 | 1066.00 | 2.24 |
| MW-97 | 1067.98 | 1060.51 | 1064.24 | 1066.01 | -1.77 |
| MW-98 | 1059.48 | 1049.41 | 1054.44 | 1058.99 | -4.55 |
| MW-99 | 1055.84 | 1046.19 | 1051.02 | 1061.50 | -10.48 |
| MW-102 | 1074.09 | 1064.96 | 1069.53 | 1064.14 | 5.39 |
| MW-103 | 1077.54 | 1066.24 | 1071.89 | 1064.71 | 7.18 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-104 | 1076.27 | 1065.28 | 1070.78 | 1064.73 | 6.05 |
| MW-105 | 1071.87 | 1059.69 | 1065.78 | 1064.10 | 1.68 |
| MW-106 | 1075.91 | 1067.27 | 1071.59 | 1064.98 | 6.61 |
| MW-107 | 1078.76 | 1067.85 | 1073.31 | 1065.48 | 7.83 |
| MW-108 | 1077.44 | 1067.55 | 1072.49 | 1064.86 | 7.63 |
| MW-109 | 1074.44 | 1064.15 | 1069.30 | 1064.87 | 4.43 |
| MW-110 | 1058.24 | 1047.47 | 1052.86 | 1064.22 | -11.36 |
| MW-111 | 1072.17 | 1063.93 | 1068.05 | 1063.60 | 4.45 |
| MW-112 | 1072.69 | 1064.03 | 1068.36 | 1063.62 | 4.74 |
| MW-113 | 1069.86 | 1058.89 | 1064.38 | 1062.98 | 1.40 |
| MW-114 | 1071.87 | 1063.25 | 1067.56 | 1062.90 | 4.66 |
| MW-116 | 1072.69 | 1063.08 | 1067.89 | 1063.82 | 4.08 |
| MW-117 | 1073.50 | 1064.30 | 1068.90 | 1063.94 | 4.96 |
| MW-118 | 1069.02 | 1058.26 | 1063.64 | 1064.60 | -0.96 |
| MW-119 | 1069.24 | 1057.74 | 1063.49 | 1062.86 | 0.63 |
| MW-120 | 1072.16 | 1060.95 | 1066.56 | 1064.88 | 1.68 |
| MW-121 | 1073.59 | 1064.78 | 1069.18 | 1063.47 | 5.71 |
| MW-122 | 1069.88 | 1060.28 | 1065.08 | 1063.11 | 1.97 |
| MW-132 | 1065.80 | 1056.30 | 1061.05 | 1061.12 | -0.07 |
| MW-134 | 1033.24 | 1021.98 | 1027.61 | 1030.42 | -2.81 |
| MW-135 | 1031.14 | 1020.18 | 1025.66 | 1030.47 | -4.81 |
| MW-137 | 1038.76 | 1032.14 | 1035.45 | 1036.53 | -1.08 |
| MW-138 | 1052.38 | 1037.04 | 1044.71 | 1039.38 | 5.33 |
| MW-139 | 1056.90 | 1050.08 | 1053.49 | 1042.32 | 11.17 |
| MW-140 | 1050.11 | 1036.52 | 1043.32 | 1042.08 | 1.24 |
| MW-141 | 1050.14 | 1036.52 | 1043.33 | 1042.14 | 1.19 |
| MW-143 | 1062.43 | 1057.00 | 1059.71 | 1047.85 | 11.87 |
| MW-144 | 1058.08 | 1051.35 | 1054.71 | 1048.02 | 6.69 |
| MW-145 | 1055.07 | 1055.21 | 1055.14 | 1048.48 | 6.66 |
| MW-146 | 1049.30 | 1044.46 | 1046.88 | 1034.29 | 12.59 |
| MW-147 | 1044.56 | 1039.33 | 1041.94 | 1033.57 | 8.37 |
| MW-148 | 1038.27 | 1032.65 | 1035.46 | 1037.76 | -2.30 |
| MW-149 | 1023.77 | 1019.31 | 1021.54 | 1036.78 | -15.24 |
| MW-150 | 1022.72 | 1018.04 | 1020.38 | 1014.41 | 5.97 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-151 | 1036.66 | 1027.81 | 1032.23 | 1030.03 | 2.20 |
| MW-152 | 1022.64 | 1017.89 | 1020.27 | 1017.23 | 3.04 |
| MW-153 | 1021.79 | 1016.75 | 1019.27 | 1016.53 | 2.74 |
| MW-154 | 1046.68 | 1043.68 | 1045.18 | 1066.39 | -21.21 |
| MW-155 | 1063.82 | 1060.34 | 1062.08 | 1061.88 | 0.20 |
| MW-156 | 1079.06 | 1077.25 | 1078.16 | 1075.95 | 2.21 |
| MW-157 | 1063.33 | 1060.09 | 1061.71 | 1075.25 | -13.54 |
| MW-158 | 1079.63 | 1077.33 | 1078.48 | 1072.95 | 5.53 |
| MW-159 | 1077.85 | 1074.50 | 1076.18 | 1072.38 | 3.81 |
| MW-160 | 1079.12 | 1077.71 | 1078.42 | 1072.16 | 6.26 |
| MW-161 | 1079.02 | 1077.61 | 1078.32 | 1072.36 | 5.96 |
| MW-162 | 1079.65 | 1078.03 | 1078.84 | 1072.46 | 6.38 |
| MW-163 | 1077.87 | 1075.84 | 1076.86 | 1072.22 | 4.64 |
| MW-164 | 1086.90 | 1081.91 | 1084.41 | 1087.12 | -2.71 |
| MW-165 | 1087.90 | 1082.94 | 1085.42 | 1085.94 | -0.52 |
| MW-171 | 1072.73 | 1060.57 | 1066.65 | 1069.05 | -2.40 |
| MW-173 | 972.02 | 969.03 | 970.53 | 984.59 | -14.07 |
| MW-174 | 968.59 | 964.60 | 966.60 | 986.76 | -20.16 |
| MW-177 | 1078.74 | 1055.38 | 1067.06 | 1049.40 | 17.66 |
| MW-179 | 1046.76 | 1035.78 | 1041.27 | 1042.36 | -1.09 |
| MW-181 | 1005.89 | 997.29 | 1001.59 | 1008.90 | -7.30 |
| MW-182 | 1006.05 | 996.67 | 1001.36 | 1008.67 | -7.31 |
| MW-183 | 1007.70 | 997.91 | 1002.80 | 1008.92 | -6.12 |
| MW-185 | 1071.02 | 1060.92 | 1065.97 | 1082.98 | -17.01 |
| MW-186 | 1095.99 | 1080.52 | 1088.26 | 1087.97 | 0.29 |
| MW-188 | 972.94 | 971.14 | 972.04 | 977.43 | -5.39 |
| MW-189 | 973.72 | 971.05 | 972.39 | 973.57 | -1.19 |
| MW-190 | 948.06 | 942.08 | 945.07 | 952.43 | -7.36 |
| MW-191 | 949.34 | 935.25 | 942.30 | 952.72 | -10.43 |
| MW-194 | 1005.29 | 998.34 | 1001.82 | 1011.60 | -9.78 |
| MW-195 | 1018.98 | 1007.40 | 1013.19 | 1006.94 | 6.25 |
| MW-196 | 1045.66 | 1045.36 | 1045.51 | 1051.66 | -6.14 |
| MW-197 | 1055.62 | 1040.37 | 1047.99 | 1051.79 | -3.80 |
| MW-198 | 1045.33 | 1029.96 | 1037.65 | 1041.94 | -4.29 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-199 | 1045.48 | 1030.67 | 1038.08 | 1042.41 | -4.33 |
| MW-200 | 1064.23 | 1045.14 | 1054.68 | 1053.88 | 0.80 |
| MW-201 | 1064.31 | 1045.14 | 1054.72 | 1054.03 | 0.69 |
| MW-202 | 963.51 | 960.33 | 961.92 | 975.12 | -13.20 |
| MW-203 | 963.65 | 959.81 | 961.73 | 975.25 | -13.52 |
| MW-213 | 1050.94 | 1029.26 | 1040.10 | 1037.78 | 2.32 |
| MW-214 | 996.28 | 986.48 | 991.38 | 994.24 | -2.86 |
| MW-215 | 1068.87 | 1047.94 | 1058.41 | 1058.60 | -0.19 |
| MW-216 | 1031.98 | 1014.21 | 1023.10 | 1017.20 | 5.90 |
| MW-217 | 1046.17 | 1043.88 | 1045.03 | 1061.69 | -16.66 |
| MW-218 | 1078.02 | 1067.18 | 1072.60 | 1061.76 | 10.84 |
| MW-219 | 1051.87 | 1035.59 | 1043.73 | 1040.38 | 3.35 |
| MW-221 | 1016.00 | 1007.54 | 1011.77 | 995.11 | 16.66 |
| MW-222 | 989.61 | 981.05 | 985.33 | 1002.99 | -17.66 |
| MW-223 | 1000.97 | 992.75 | 996.86 | 1011.38 | -14.52 |
| MW-224 | 1064.00 | 1057.05 | 1060.53 | 1036.65 | 23.88 |
| MW-225 | 1001.35 | 998.24 | 999.80 | 991.51 | 8.29 |
| MW-226 | 1027.11 | 1020.00 | 1023.55 | 1017.11 | 6.44 |
| MW-227 | 1027.12 | 1016.07 | 1021.60 | 1009.77 | 11.83 |
| MW-228 | 966.98 | 964.14 | 965.56 | 988.52 | -22.96 |
| MW-230 | 1015.57 | 1010.16 | 1012.87 | 1012.36 | 0.51 |
| MW-231 | 1027.31 | 1011.86 | 1019.59 | 1036.62 | -17.03 |
| MW-232 | 1031.08 | 1025.82 | 1028.45 | 1040.97 | -12.52 |
| MW-236 | 953.08 | 946.45 | 949.77 | 953.93 | -4.17 |
| MW-238 | 1033.45 | 1025.71 | 1029.58 | 1033.66 | -4.08 |
| MW-241 | 1033.30 | 1025.45 | 1029.38 | 1033.23 | -3.85 |
| MW-243 | 1034.52 | 1026.95 | 1030.73 | 1033.83 | -3.10 |
| MW-244 | 1034.70 | 1026.29 | 1030.49 | 1033.80 | -3.31 |
| MW-245 | 1031.02 | 1022.90 | 1026.96 | 1031.24 | -4.28 |
| MW-247 | 1022.55 | 1015.78 | 1019.17 | 1028.69 | -9.52 |
| MW-248 | 1007.43 | 1008.89 | 1008.16 | 1028.72 | -20.56 |
| MW-249 | 1050.29 | 1036.78 | 1043.54 | 1042.26 | 1.28 |
| MW-250 | 1050.51 | 1036.92 | 1043.71 | 1042.28 | 1.43 |
| MW-251 | 1050.50 | 1036.91 | 1043.70 | 1042.23 | 1.47 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-252 | 1052.87 | 1041.02 | 1046.94 | 1042.54 | 4.40 |
| MW-253 | 1050.52 | 1036.90 | 1043.71 | 1042.21 | 1.50 |
| MW-258 | 1030.01 | 1022.59 | 1026.30 | 1033.75 | -7.45 |
| MW-259 | 1028.07 | 1027.27 | 1027.67 | 1033.90 | -6.23 |
| MW-260 | 1034.51 | 1027.41 | 1030.96 | 1033.88 | -2.92 |
| MW-261 | 1033.83 | 1025.22 | 1029.53 | 1033.79 | -4.26 |
| MW-262 | 1039.88 | 1038.75 | 1039.32 | 1033.96 | 5.36 |
| MW-263 | 1042.20 | 1042.22 | 1042.21 | 1034.48 | 7.73 |
| MW-269 | 1047.34 | 1043.00 | 1045.17 | 1060.52 | -15.35 |
| MW-270 | 1066.06 | 1059.70 | 1062.88 | 1062.49 | 0.39 |
| MW-271 | 1071.90 | 1064.78 | 1068.34 | 1063.62 | 4.72 |
| MW-272 | 1045.24 | 1038.78 | 1042.01 | 1056.92 | -14.91 |
| MW-273 | 1033.04 | 1026.97 | 1030.01 | 1057.59 | -27.58 |
| MW-274 | 1054.29 | 1046.95 | 1050.62 | 1057.56 | -6.94 |
| MW-275 | 1072.37 | 1062.90 | 1067.64 | 1061.81 | 5.83 |
| MW-276 | 1079.92 | 1075.73 | 1077.83 | 1071.72 | 6.11 |
| MW-278 | 1064.56 | 1058.26 | 1061.41 | 1065.59 | -4.18 |
| MW-279 | 1059.21 | 1054.22 | 1056.71 | 1067.28 | -10.57 |
| MW-280 | 1070.71 | 1065.89 | 1068.30 | 1070.31 | -2.01 |
| MW-282 | 1055.94 | 1049.24 | 1052.59 | 1061.09 | -8.50 |
| MW-283 | 1066.78 | 1059.27 | 1063.03 | 1061.12 | 1.91 |
| MW-284 | 1075.16 | 1068.32 | 1071.74 | 1061.80 | 9.94 |
| MW-285 | 1068.59 | 1057.18 | 1062.89 | 1063.79 | -0.90 |
| MW-286 | 1072.98 | 1062.26 | 1067.62 | 1063.91 | 3.71 |
| MW-287 | 1077.94 | 1067.93 | 1072.93 | 1064.63 | 8.30 |
| MW-288 | 1072.18 | 1058.59 | 1065.39 | 1068.25 | -2.86 |
| MW-289 | 1072.29 | 1058.52 | 1065.41 | 1068.30 | -2.89 |
| MW-290 | 1075.25 | 1066.37 | 1070.81 | 1069.07 | 1.74 |
| MW-291 | 1064.95 | 1036.94 | 1050.94 | 1069.64 | -18.70 |
| MW-292 | 1072.44 | 1058.94 | 1065.69 | 1070.47 | -4.78 |
| MW-293 | 1074.17 | 1064.48 | 1069.33 | 1070.45 | -1.12 |
| MW-299 | 1058.21 | 1049.99 | 1054.10 | 1066.18 | -12.08 |
| MW-300 | 1057.38 | 1048.78 | 1053.08 | 1066.08 | -13.00 |
| MW-301 | 1056.43 | 1046.83 | 1051.63 | 1055.45 | -3.82 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-302 | 1055.79 | 1046.49 | 1051.14 | 1054.75 | -3.61 |
| MW-303 | 1062.86 | 1053.35 | 1058.11 | 1055.83 | 2.28 |
| MW-304 | 1058.33 | 1048.82 | 1053.58 | 1059.53 | -5.95 |
| MW-305 | 1058.32 | 1048.78 | 1053.55 | 1059.49 | -5.94 |
| MW-306 | 1065.59 | 1060.17 | 1062.88 | 1060.30 | 2.58 |
| MW-307 | 1063.46 | 1059.99 | 1061.72 | 1063.76 | -2.04 |
| MW-308 | 1064.78 | 1059.24 | 1062.01 | 1066.47 | -4.46 |
| MW-310 | 1070.50 | 1067.06 | 1068.78 | 1067.61 | 1.17 |
| MW-311 | 1074.72 | 1068.83 | 1071.78 | 1064.86 | 6.92 |
| MW-312 | 1034.20 | 1025.74 | 1029.97 | 1027.67 | 2.30 |
| MW-314 | 1050.78 | 1048.05 | 1049.42 | 1063.39 | -13.97 |
| MW-315 | 1055.01 | 1047.73 | 1051.37 | 1065.99 | -14.62 |
| MW-316 | 1054.21 | 1050.64 | 1052.43 | 1065.78 | -13.35 |
| MW-317 | 1059.47 | 1051.82 | 1055.65 | 1067.55 | -11.90 |
| MW-319 | 1044.28 | 1043.98 | 1044.13 | 1062.13 | -18.00 |
| MW-321 | 1066.26 | 1061.31 | 1063.79 | 1068.27 | -4.48 |
| MW-322 | 1069.31 | 1051.90 | 1060.61 | 1068.27 | -7.66 |
| MW-324 | 1082.96 | 1079.78 | 1081.37 | 1071.86 | 9.51 |
| MW-325 | 1084.93 | 1082.45 | 1083.69 | 1073.98 | 9.71 |
| MW-327 | 1085.08 | 1082.05 | 1083.57 | 1076.65 | 6.92 |
| MW-330 | 1071.94 | 1059.68 | 1065.81 | 1065.26 | 0.55 |
| MW-331 | 1072.27 | 1060.97 | 1066.62 | 1065.26 | 1.36 |
| MW-332 | 1073.91 | 1060.49 | 1067.20 | 1064.06 | 3.14 |
| MW-333 | 1070.62 | 1059.30 | 1064.96 | 1063.16 | 1.80 |
| MW-334 | 1070.86 | 1059.14 | 1065.00 | 1063.54 | 1.46 |
| MW-335 | 1070.23 | 1058.52 | 1064.38 | 1063.56 | 0.82 |
| MW-336 | 1079.95 | 1065.57 | 1072.76 | 1065.80 | 6.96 |
| MW-342 | 1019.84 | 1010.33 | 1015.09 | 1003.79 | 11.30 |
| MW-343 | 1062.11 | 1046.21 | 1054.16 | 1031.79 | 22.37 |
| MW-344 | 1032.68 | 1024.37 | 1028.53 | 1031.74 | -3.21 |
| MW-345 | 1022.94 | 1015.61 | 1019.28 | 1028.37 | -9.09 |
| MW-347 | 1046.71 | 1046.41 | 1046.56 | 1033.91 | 12.65 |
| MW-353 | 1068.06 | 1040.76 | 1054.41 | 1048.20 | 6.21 |
| MW-354 | 1066.47 | 1045.45 | 1055.96 | 1048.23 | 7.73 |

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| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-355 | 1064.60 | 1037.40 | 1051.00 | 1049.44 | 1.56 |
| MW-356 | 1066.15 | 1040.57 | 1053.36 | 1055.82 | -2.46 |
| MW-357 | 1055.44 | 1046.08 | 1050.76 | 1052.15 | -1.39 |
| MW-358 | 1070.86 | 1047.45 | 1059.16 | 1057.60 | 1.56 |
| MW-359 | 1066.67 | 1040.22 | 1053.44 | 1057.60 | -4.16 |
| MW-364 | 1069.53 | 1061.17 | 1065.35 | 1066.43 | -1.08 |
| MW-365 | 1062.41 | 1055.44 | 1058.93 | 1065.78 | -6.85 |
| MW-366 | 1061.46 | 1054.11 | 1057.79 | 1065.72 | -7.92 |
| MW-367 | 1064.97 | 1058.11 | 1061.54 | 1066.04 | -4.50 |
| MW-368 | 1069.79 | 1059.91 | 1064.85 | 1062.30 | 2.55 |
| MW-369 | 1069.15 | 1054.54 | 1061.85 | 1062.50 | -0.65 |
| MW-370 | 1069.12 | 1057.94 | 1063.53 | 1063.77 | -0.24 |
| MW-371 | 1037.71 | 1030.25 | 1033.98 | 1035.99 | -2.01 |
| MW-372 | 1043.03 | 1043.79 | 1043.41 | 1036.08 | 7.33 |
| MW-373 | 1033.70 | 1024.51 | 1029.11 | 1032.55 | -3.44 |
| MW-374 | 1029.79 | 1020.14 | 1024.96 | 1032.40 | -7.44 |
| MW-375 | 1033.42 | 1023.35 | 1028.39 | 1030.64 | -2.25 |
| MW-381 | 1063.69 | 1058.04 | 1060.87 | 1054.81 | 6.06 |
| MW-382 | 1060.42 | 1054.92 | 1057.67 | 1041.51 | 16.17 |
| MW-384 | 1059.38 | 1057.47 | 1058.43 | 1052.45 | 5.98 |
| MW-387 | 1037.34 | 1031.98 | 1034.66 | 1028.44 | 6.22 |
| MW-388 | 1021.38 | 1016.93 | 1019.16 | 1005.57 | 13.59 |
| MW-389 | 1023.78 | 1019.17 | 1021.48 | 1027.79 | -6.31 |
| MW-390 | 1004.60 | 1000.77 | 1002.68 | 994.38 | 8.30 |
| MW-391 | 996.64 | 994.73 | 995.69 | 995.31 | 0.37 |
| MW-392 | 1022.16 | 1017.16 | 1019.66 | 1002.42 | 17.24 |
| MW-393 | 1023.15 | 1017.95 | 1020.55 | 1001.11 | 19.44 |
| MW-395 | 970.43 | 964.63 | 967.53 | 973.66 | -6.13 |
| MW-397 | 950.70 | 943.88 | 947.29 | 953.90 | -6.61 |
| MW-398 | 971.78 | 968.06 | 969.92 | 962.79 | 7.13 |
| MW-403 | 1072.07 | 1059.23 | 1065.65 | 1068.74 | -3.09 |
| MW-404 | 1071.05 | 1059.38 | 1065.21 | 1070.12 | -4.91 |
| MW-411 | 1071.13 | 1056.74 | 1063.93 | 1068.07 | -4.14 |
| MW-412 | 1069.41 | 1051.75 | 1060.58 | 1067.41 | -6.83 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-413 | 1069.23 | 1051.34 | 1060.29 | 1068.35 | -8.06 |
| MW-419 | 1072.25 | 1058.51 | 1065.38 | 1067.93 | -2.55 |
| MW-420 | 1069.61 | 1052.73 | 1061.17 | 1067.19 | -6.02 |
| MW-421 | 1068.99 | 1050.92 | 1059.95 | 1068.15 | -8.20 |
| MW-422 | 1080.07 | 1079.29 | 1079.68 | 1075.16 | 4.52 |
| MW-428 | 1054.51 | 1031.16 | 1042.84 | 1046.19 | -3.35 |
| MW-429 | 947.73 | 941.13 | 944.43 | 951.94 | -7.51 |
| MW-430 | 953.13 | 945.56 | 949.35 | 954.60 | -5.25 |
| MW-431 | 949.92 | 943.13 | 946.53 | 953.94 | -7.42 |
| MW-432 | 962.60 | 958.36 | 960.48 | 953.81 | 6.67 |
| MW-435 | 943.90 | 937.98 | 940.94 | 954.83 | -13.89 |
| MW-436 | 944.07 | 938.13 | 941.10 | 954.73 | -13.63 |
| MW-437 | 949.31 | 942.55 | 945.93 | 952.99 | -7.06 |
| MW-438 | 946.64 | 939.71 | 943.18 | 950.64 | -7.46 |
| MW-439 | 957.98 | 952.96 | 955.47 | 960.78 | -5.31 |
| MW-440 | 953.18 | 948.58 | 950.88 | 951.73 | -0.85 |
| MW-441 | 1022.03 | 1017.69 | 1019.86 | 1010.79 | 9.07 |
| MW-442 | 948.56 | 942.01 | 945.29 | 952.21 | -6.93 |
| MW-443 | 959.39 | 947.06 | 953.23 | 957.39 | -4.17 |
| MW-444 | 961.99 | 948.30 | 955.15 | 957.53 | -2.38 |
| MW-445 | 947.98 | 941.39 | 944.69 | 951.10 | -6.42 |
| MW-446 | 941.41 | 939.81 | 940.61 | 951.09 | -10.48 |
| MW-447 | 948.04 | 939.85 | 943.95 | 951.10 | -7.15 |
| MW-448 | 948.08 | 941.33 | 944.71 | 951.10 | -6.40 |
| MW-449 | 937.12 | 937.65 | 937.39 | 951.11 | -13.72 |
| MW-450 | 1042.78 | 1025.97 | 1034.38 | 1017.36 | 17.02 |
| MW-451 | 1045.05 | 1026.19 | 1035.62 | 1033.94 | 1.68 |
| MW-452 | 1069.24 | 1050.81 | 1060.03 | 1067.10 | -7.07 |
| MW-453 | 1058.48 | 1048.76 | 1053.62 | 1056.62 | -3.00 |
| MW-454 | 1074.15 | 1059.17 | 1066.66 | 1065.90 | 0.76 |
| MW-455 | 1069.26 | 1051.06 | 1060.16 | 1065.92 | -5.76 |
| MW-456 | 1045.35 | 1043.68 | 1044.52 | 1062.17 | -17.65 |
| MW-457 | 1057.88 | 1048.32 | 1053.10 | 1060.79 | -7.69 |
| MW-458 | 1059.77 | 1051.90 | 1055.84 | 1063.91 | -8.07 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-460 | 1056.36 | 1046.91 | 1051.64 | 1051.46 | 0.18 |
| MW-461 | 1039.57 | 1021.40 | 1030.48 | 1018.09 | 12.39 |
| MW-462 | 1000.90 | 990.19 | 995.55 | 1008.12 | -12.58 |
| MW-463 | 1058.21 | 1036.54 | 1047.38 | 1032.72 | 14.66 |
| MW-464 | 1026.83 | 1010.56 | 1018.70 | 1017.75 | 0.95 |
| MW-467 | 1006.28 | 994.77 | 1000.53 | 1019.16 | -18.63 |
| MW-468 | 1001.99 | 991.97 | 996.98 | 998.42 | -1.44 |
| MW-469 | 1001.97 | 991.46 | 996.72 | 998.42 | -1.70 |
| MW-470 | 1071.16 | 1068.14 | 1069.65 | 1072.19 | -2.54 |
| MW-471 | 1046.91 | 1026.71 | 1036.81 | 1025.90 | 10.91 |
| MW-472 | 1012.50 | 998.78 | 1005.64 | 1015.35 | -9.71 |
| MW-473 | 1067.98 | 1048.52 | 1058.25 | 1056.51 | 1.74 |
| MW-474 | 1001.95 | 991.39 | 996.67 | 998.45 | -1.78 |
| MW-475 | 1078.16 | 1059.44 | 1068.80 | 1066.62 | 2.18 |
| MW-476 | 1080.04 | 1075.99 | 1078.02 | 1072.43 | 5.59 |
| MW-481 | 1058.13 | 1047.86 | 1052.99 | 1057.23 | -4.24 |
| MW-487 | 1088.17 | 1078.89 | 1083.53 | 1074.92 | 8.61 |
| MW-488 | 1053.69 | 1028.56 | 1041.13 | 1040.58 | 0.55 |
| MW-490 | 937.77 | 935.86 | 936.82 | 947.43 | -10.61 |
| MW-491 | 937.44 | 935.37 | 936.41 | 947.52 | -11.12 |
| MW-492 | 936.47 | 935.69 | 936.08 | 947.43 | -11.35 |
| MW-494 | 1059.99 | 1049.13 | 1054.56 | 1058.13 | -3.57 |
| MW-495 | 1022.12 | 1017.20 | 1019.66 | 1008.62 | 11.04 |
| MW-496 | 1022.23 | 1017.25 | 1019.74 | 1011.89 | 7.85 |
| MW-497 | 1022.12 | 1017.88 | 1020.00 | 1018.55 | 1.45 |
| MW-498 | 1082.55 | 1080.14 | 1081.35 | 1073.34 | 8.01 |
| MW-499 | 1008.06 | 997.96 | 1003.01 | 996.56 | 6.45 |
| MW-501 | 1057.43 | 1037.86 | 1047.65 | 1034.16 | 13.49 |
| MW-502 | 1062.92 | 1043.14 | 1053.03 | 1040.83 | 12.20 |
| MW-503 | 1007.68 | 998.21 | 1002.95 | 997.01 | 5.94 |
| MW-504 | 1057.40 | 1047.08 | 1052.24 | 1044.92 | 7.32 |
| MW-505 | 1055.86 | 1046.68 | 1051.27 | 1044.86 | 6.41 |
| MW-506 | 1057.45 | 1037.81 | 1047.63 | 1034.17 | 13.46 |
| MW-507 | 1057.44 | 1037.82 | 1047.63 | 1034.29 | 13.34 |

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Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-508 | 1057.42 | 1037.82 | 1047.62 | 1034.32 | 13.30 |
| MW-509 | 1057.41 | 1037.80 | 1047.61 | 1034.32 | 13.29 |
| MW-510 | 1057.45 | 1037.66 | 1047.56 | 1034.80 | 12.76 |
| MW-518 | 1069.14 | 1050.67 | 1059.91 | 1067.13 | -7.22 |
| MW-519 | 1069.16 | 1050.63 | 1059.90 | 1067.15 | -7.25 |
| MW-520 | 1069.16 | 1050.64 | 1059.90 | 1067.16 | -7.26 |
| MW-524 | 1001.59 | 991.07 | 996.33 | 998.31 | -1.98 |
| MW-525 | 1002.24 | 991.86 | 997.05 | 998.66 | -1.61 |
| MW-551 | 1057.58 | 1047.67 | 1052.63 | 1056.66 | -4.03 |
| MW-553 | 1033.93 | 1025.83 | 1029.88 | 1032.81 | -2.93 |
| MW-555 | 1035.47 | 1027.21 | 1031.34 | 1033.85 | -2.51 |
| MW-557 | 1036.64 | 1028.93 | 1032.79 | 1034.44 | -1.65 |
| MW-559 | 1000.11 | 990.88 | 995.50 | 994.50 | 1.00 |
| MW-560 | 1016.85 | 1008.33 | 1012.59 | 1000.07 | 12.52 |
| MW-561 | 1017.41 | 1007.79 | 1012.60 | 999.53 | 13.07 |
| MW-562 | 996.53 | 987.01 | 991.77 | 996.27 | -4.50 |
| MW-563 | 997.66 | 989.90 | 993.78 | 996.22 | -2.44 |
| MW-564 | 1040.85 | 1033.06 | 1036.95 | 1037.78 | -0.83 |
| MW-567 | 1039.34 | 1031.71 | 1035.53 | 1036.76 | -1.23 |
| MW-569 | 1043.22 | 1034.73 | 1038.97 | 1039.56 | -0.59 |
| MW-570 | 1043.18 | 1035.45 | 1039.32 | 1039.77 | -0.45 |
| MW-571 | 1048.65 | 1036.89 | 1042.77 | 1041.78 | 0.99 |
| MW-572 | 1049.36 | 1038.21 | 1043.79 | 1042.05 | 1.74 |
| MW-573 | 1036.66 | 1029.62 | 1033.14 | 1035.41 | -2.27 |
| MW-574 | 1034.55 | 1026.18 | 1030.37 | 1033.65 | -3.28 |
| MW-575 | 1032.66 | 1022.81 | 1027.73 | 1032.83 | -5.10 |
| MW-576 | 1036.49 | 1035.53 | 1036.01 | 1032.93 | 3.08 |
| MW-577 | 947.98 | 941.32 | 944.65 | 951.06 | -6.41 |
| MW-578 | 1034.97 | 1027.44 | 1031.20 | 1034.38 | -3.18 |
| MW-580 | 937.52 | 933.32 | 935.42 | 946.98 | -11.56 |
| MW-581 | 941.46 | 935.39 | 938.43 | 947.36 | -8.94 |
| MW-582 | 937.51 | 936.33 | 936.92 | 947.36 | -10.44 |
| MW-583 | 953.87 | 946.54 | 950.21 | 957.34 | -7.13 |
| MW-584 | 972.99 | 969.52 | 971.26 | 975.15 | -3.90 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-585 | 972.06 | 968.36 | 970.21 | 972.07 | -1.86 |
| MW-586 | 1023.68 | 1018.36 | 1021.02 | 1016.72 | 4.30 |
| MW-588 | 959.74 | 955.20 | 957.47 | 963.42 | -5.95 |
| MW-589 | 1071.41 | 1061.48 | 1066.44 | 1066.77 | -0.33 |
| MW-591 | 1085.86 | 1082.81 | 1084.34 | 1078.57 | 5.77 |
| MW-592 | 1084.55 | 1082.55 | 1083.55 | 1077.98 | 5.57 |
| MW-594 | 1079.86 | 1078.82 | 1079.34 | 1072.65 | 6.69 |
| MW-596 | 1080.31 | 1078.96 | 1079.64 | 1072.91 | 6.73 |
| MW-597 | 1048.79 | 1046.85 | 1047.82 | 1061.62 | -13.80 |
| MW-598 | 1069.13 | 1057.74 | 1063.43 | 1063.25 | 0.18 |
| MW-599 | 1056.31 | 1048.90 | 1052.61 | 1066.93 | -14.32 |
| MW-600 | 1056.47 | 1048.99 | 1052.73 | 1066.96 | -14.23 |
| MW-601 | 1006.29 | 996.41 | 1001.35 | 985.52 | 15.83 |
| MW-602 | 1007.21 | 998.66 | 1002.93 | 985.41 | 17.52 |
| MW-603 | 972.17 | 971.46 | 971.82 | 982.76 | -10.94 |
| MW-604 | 974.99 | 968.98 | 971.99 | 982.37 | -10.39 |
| MW-605 | 974.15 | 971.11 | 972.63 | 983.21 | -10.58 |
| MW-606 | 971.45 | 966.10 | 968.78 | 983.14 | -14.37 |
| MW-607 | 998.40 | 992.99 | 995.70 | 994.92 | 0.77 |
| MW-608 | 982.08 | 975.29 | 978.69 | 989.31 | -10.62 |
| MW-609 | 1008.27 | 1007.01 | 1007.64 | 996.12 | 11.52 |
| MW-610 | 1000.98 | 999.99 | 1000.49 | 996.14 | 4.35 |
| MW-611 | 1026.44 | 1021.78 | 1024.11 | 1009.05 | 15.06 |
| MW-612 | 979.38 | 973.83 | 976.61 | 988.30 | -11.70 |
| MW-613 | 995.22 | 990.08 | 992.65 | 983.80 | 8.85 |
| MW-614 | 1022.55 | 1008.91 | 1015.73 | 997.56 | 18.17 |
| MW-615 | 1044.04 | 1014.59 | 1029.32 | 1031.62 | -2.30 |
| MW-616 | 1051.73 | 1032.91 | 1042.32 | 1039.21 | 3.11 |
| MW-617 | 1051.78 | 1034.34 | 1043.06 | 1041.17 | 1.89 |
| MW-618 | 1086.51 | 1082.37 | 1084.44 | 1084.45 | -0.01 |
| MW-619 | 1086.10 | 1082.62 | 1084.36 | 1083.59 | 0.77 |
| MW-620 | 1009.38 | 1000.06 | 1004.72 | 1028.54 | -23.82 |
| MW-621 | 987.78 | 982.80 | 985.29 | 979.08 | 6.21 |
| MW-622 | 1031.27 | 1020.82 | 1026.05 | 1030.22 | -4.17 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|----------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-623 | 1077.69 | 1076.26 | 1076.97 | 1072.54 | 4.43 |
| MW-624 | 1079.28 | 1077.51 | 1078.40 | 1072.83 | 5.57 |
| MW-625 | 1086.04 | 1082.06 | 1084.05 | 1080.61 | 3.44 |
| MW-626 | 1085.32 | 1082.08 | 1083.70 | 1078.84 | 4.86 |
| MW-628 | 1043.50 | 1035.03 | 1039.27 | 1040.05 | -0.78 |
| MW-629 | 1044.05 | 1036.08 | 1040.07 | 1040.27 | -0.20 |
| MW-630 | 1043.97 | 1036.62 | 1040.30 | 1040.27 | 0.03 |
| MW-632 | 1039.35 | 1032.01 | 1035.68 | 1035.73 | -0.05 |
| MW-633 | 1040.24 | 1037.05 | 1038.65 | 1035.86 | 2.80 |
| MW-635 | 1061.49 | 1055.98 | 1058.73 | 1067.22 | -8.49 |
| MW-636 | 1052.59 | 1035.59 | 1044.09 | 1041.41 | 2.68 |
| MW-642 | 1085.31 | 1082.20 | 1083.76 | 1077.33 | 6.43 |
| MW-643LD | 1051.03 | 1048.87 | 1049.95 | 1059.56 | -9.61 |
| MW-643UD | 1058.42 | 1049.97 | 1054.19 | 1059.65 | -5.46 |
| MW-644LD | 1045.45 | 1039.31 | 1042.38 | 1059.31 | -16.93 |
| MW-644UD | 1057.91 | 1048.69 | 1053.30 | 1059.39 | -6.09 |
| MW-645LD | 1044.88 | 1048.11 | 1046.49 | 1059.85 | -13.36 |
| MW-645UD | 1058.45 | 1048.17 | 1053.31 | 1059.85 | -6.54 |
| MW-646LD | 1043.47 | 1038.07 | 1040.77 | 1060.11 | -19.34 |
| MW-646UD | 1056.72 | 1048.51 | 1052.62 | 1060.11 | -7.49 |
| MW-647 | 1030.76 | 1013.56 | 1022.16 | 1017.52 | 4.64 |
| MW-648 | 1053.31 | 1028.57 | 1040.94 | 1040.59 | 0.35 |
| MW-649 | 1054.88 | 1031.15 | 1043.02 | 1046.12 | -3.10 |
| MW-650 | 1050.47 | 1030.23 | 1040.35 | 1045.90 | -5.55 |
| MW-651 | 1070.22 | 1055.10 | 1062.66 | 1062.31 | 0.35 |
| MW-652 | 1070.31 | 1055.16 | 1062.73 | 1062.53 | 0.20 |
| MW-653 | 1057.72 | 1038.13 | 1047.93 | 1061.51 | -13.58 |
| MW-654 | 1069.01 | 1050.37 | 1059.69 | 1061.52 | -1.83 |
| MW-655 | 1052.75 | 1036.38 | 1044.57 | 1045.82 | -1.25 |
| MW-656 | | | 1059.46 | 1056.44 | 3.02 |
| MW-656LD | 1069.02 | 1049.73 | 1058.92 | 1056.46 | 2.46 |
| MW-657 | 1069.15 | 1050.05 | 1059.60 | 1065.11 | -5.51 |
| MW-658 | 1069.10 | 1050.00 | 1059.55 | 1065.13 | -5.58 |
| MW-659 | 1030.59 | 1026.23 | 1028.41 | 1015.98 | 12.43 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|---------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-559A | 1000.18 | 990.37 | 995.28 | 994.50 | 0.78 |
| MW-660 | 1062.50 | 1053.98 | 1058.24 | 1065.94 | -7.70 |
| MW-661 | 1065.25 | 1051.63 | 1058.44 | 1061.47 | -3.03 |
| MW-662 | 1062.33 | 1055.95 | 1059.14 | 1064.52 | -5.38 |
| MW-665 | 1069.10 | 1050.16 | 1059.63 | 1064.56 | -4.93 |
| MW-666 | 1070.81 | 1066.19 | 1068.50 | 1067.38 | 1.12 |
| MW-667 | 1070.77 | 1066.16 | 1068.46 | 1067.40 | 1.06 |
| MW-668 | 1070.87 | 1068.35 | 1069.61 | 1068.03 | 1.58 |
| MW-669 | 1073.22 | 1064.70 | 1068.96 | 1065.77 | 3.19 |
| MW-670 | 1075.25 | 1066.43 | 1070.84 | 1066.73 | 4.11 |
| MW-671 | 1076.11 | 1069.13 | 1072.62 | 1064.13 | 8.49 |
| MW-672 | 1071.74 | 1065.74 | 1068.74 | 1066.91 | 1.83 |
| MW-674 | 1071.85 | 1062.90 | 1067.38 | 1065.07 | 2.31 |
| MW-675 | 1071.47 | 1062.52 | 1066.99 | 1065.05 | 1.94 |
| MW-676 | 1071.63 | 1062.19 | 1066.91 | 1065.84 | 1.07 |
| MW-677 | 1050.55 | 1030.61 | 1040.58 | 1051.89 | -11.31 |
| MW-678 | 1050.54 | 1030.61 | 1040.58 | 1051.89 | -11.31 |
| MW-679 | 1074.03 | 1071.11 | 1072.57 | 1074.31 | -1.74 |
| MW-680 | 1073.43 | 1070.64 | 1072.04 | 1074.59 | -2.55 |
| MW-681 | 1091.57 | 1081.26 | 1086.42 | 1087.87 | -1.45 |
| MW-682 | 1092.01 | 1081.75 | 1086.88 | 1087.77 | -0.89 |
| MW-683 | 1090.22 | 1078.93 | 1084.58 | 1086.94 | -2.36 |
| MW-684 | 1087.58 | 1077.39 | 1082.48 | 1086.74 | -4.26 |
| MW-685 | 1084.64 | 1076.66 | 1080.65 | 1092.47 | -11.82 |
| MW-686 | 1084.81 | 1076.87 | 1080.84 | 1092.43 | -11.59 |
| MW-687 | 1077.76 | 1070.29 | 1074.03 | 1086.17 | -12.14 |
| MW-688 | 1078.10 | 1070.47 | 1074.29 | 1086.86 | -12.57 |
| MW-689 | 1085.06 | 1078.39 | 1081.72 | 1086.78 | -5.06 |
| MW-690 | 1077.79 | 1070.33 | 1074.06 | 1086.61 | -12.55 |
| MW-691 | 1081.87 | 1076.24 | 1079.06 | 1086.70 | -7.64 |
| MW-698 | 1039.29 | 1021.87 | 1030.58 | 1034.61 | -4.03 |
| MW-699 | 1045.88 | 1039.55 | 1042.71 | 1035.10 | 7.61 |
| MW-700 | 1014.36 | 1001.18 | 1007.77 | 1009.97 | -2.20 |
| MW-701 | 1006.86 | 994.94 | 1000.90 | 1011.10 | -10.20 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|--------------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| MW-702 | 1056.77 | 1051.17 | 1053.97 | 1048.51 | 5.46 |
| 19_LF2_MW_01 | 969.37 | 965.38 | 967.38 | 966.53 | 0.84 |
| 19_LF2_MW_04 | 1005.85 | 986.10 | 995.98 | 977.70 | 18.27 |
| 19_LF2_MW_06 | 1000.79 | 990.07 | 995.43 | 982.53 | 12.90 |
| JAR-002 | 1106.30 | 1092.21 | 1099.26 | 1091.69 | 7.57 |
| JAR-003 | 1084.85 | 1081.82 | 1083.34 | 1082.57 | 0.77 |
| PZ_22_1a | 1006.08 | 997.78 | 1001.93 | 993.56 | 8.37 |
| PZ_22_2 | 1005.22 | 995.59 | 1000.41 | 991.76 | 8.65 |
| PZ_22_3 | 1003.61 | 994.74 | 999.18 | 993.55 | 5.62 |
| PZ-BKG-1 | 1061.16 | 1039.64 | 1050.40 | 1044.31 | 6.09 |
| SSB7-PZ | 1061.07 | 1045.55 | 1053.31 | 1041.13 | 12.18 |
| UTSI-3 | 982.31 | 975.82 | 979.07 | 964.15 | 14.92 |
| UTSI-5 | 982.39 | 977.04 | 979.72 | 963.52 | 16.20 |
| UTSI-6 | 983.48 | 979.58 | 981.53 | 963.75 | 17.78 |
| A-002 | 992.09 | 986.19 | 989.14 | 989.54 | -0.40 |
| A-003 | 1011.28 | 1002.32 | 1006.80 | 989.95 | 16.85 |
| A-010 | 1065.36 | 1056.33 | 1060.85 | 1044.49 | 16.36 |
| A-013 | 972.97 | 962.74 | 967.86 | 987.09 | -19.24 |
| A-016 | 961.71 | 959.30 | 960.51 | 960.65 | -0.14 |
| A-021 | 970.29 | 967.48 | 968.89 | 969.56 | -0.68 |
| A-030 | 1017.64 | 1007.71 | 1012.68 | 1003.83 | 8.85 |
| A-031 | 1039.58 | 1025.74 | 1032.66 | 1010.39 | 22.28 |
| A-034 | 1040.90 | 1038.07 | 1039.48 | 1044.59 | -5.11 |
| B-001 | 1024.62 | 1018.18 | 1021.40 | 999.85 | 21.55 |
| B-002 | 1023.60 | 991.91 | 1007.76 | 1006.42 | 1.34 |
| B-005 | 1043.00 | 1026.04 | 1034.52 | 1018.03 | 16.49 |
| B-006 | 1028.14 | 1019.30 | 1023.72 | 1028.50 | -4.78 |
| B-011 | 999.66 | 991.18 | 995.42 | 993.28 | 2.14 |
| B-014 | 1031.50 | 1020.35 | 1025.93 | 1015.00 | 10.93 |
| B-015 | 992.96 | 988.18 | 990.57 | 994.35 | -3.78 |
| B-018 | 1021.38 | 1015.11 | 1018.25 | 1007.33 | 10.93 |
| B-019 | 965.20 | 962.41 | 963.81 | 980.66 | -16.85 |
| B-022 | 1012.49 | 988.50 | 1000.50 | 1005.41 | -4.91 |
| B-023 | 1011.91 | 1006.71 | 1009.31 | 1014.14 | -4.83 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|-------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| B-031 | 1034.23 | 1022.10 | 1028.17 | 1007.52 | 20.65 |
| B-034 | 1090.59 | 1073.30 | 1081.94 | 1056.05 | 25.89 |
| B-038 | 1044.95 | 1036.80 | 1040.88 | 1025.32 | 15.56 |
| B-039 | 964.00 | 961.43 | 962.72 | 975.44 | -12.73 |
| C-001 | 1010.92 | 1000.28 | 1005.60 | 985.22 | 20.38 |
| C-002 | 1021.10 | 1015.39 | 1018.25 | 1002.18 | 16.07 |
| C-003 | 1024.85 | 1015.46 | 1020.16 | 1019.15 | 1.01 |
| C-009 | 1016.80 | 1006.05 | 1011.43 | 997.67 | 13.76 |
| C-012 | 1047.90 | 1036.66 | 1042.28 | 1013.37 | 28.91 |
| C-015 | 986.55 | 981.21 | 983.88 | 983.44 | 0.44 |
| C-016 | 991.84 | 984.53 | 988.19 | 982.30 | 5.89 |
| C-023 | 1030.55 | 1019.69 | 1025.12 | 1005.84 | 19.28 |
| C-025 | 1023.62 | 1011.58 | 1017.60 | 1011.51 | 6.10 |
| C-026 | 1056.46 | 1042.42 | 1049.44 | 1032.83 | 16.61 |
| C-028 | 1072.40 | 1055.66 | 1064.03 | 1046.54 | 17.49 |
| C-029 | 1062.47 | 1045.96 | 1054.21 | 1048.19 | 6.02 |
| C-039 | 1049.73 | 1035.17 | 1042.45 | 1037.00 | 5.45 |
| D-002 | 975.64 | 965.68 | 970.66 | 978.20 | -7.54 |
| D-008 | 972.39 | 967.09 | 969.74 | 975.27 | -5.53 |
| D-009 | 972.18 | 967.42 | 969.80 | 974.28 | -4.48 |
| D-011 | 958.96 | 956.84 | 957.90 | 968.10 | -10.20 |
| D-012 | 965.19 | 962.30 | 963.75 | 970.37 | -6.63 |
| D-013 | 968.62 | 963.85 | 966.24 | 968.17 | -1.93 |
| D-014 | 962.30 | 960.37 | 961.34 | 971.07 | -9.74 |
| D-016 | 970.45 | 962.31 | 966.38 | 970.37 | -3.99 |
| D-018 | 983.34 | 962.40 | 972.87 | 971.83 | 1.04 |
| D-027 | 1010.80 | 1001.40 | 1006.10 | 997.78 | 8.32 |
| D-030 | 971.69 | 964.72 | 968.21 | 977.55 | -9.35 |
| DW38 | 951.13 | 949.26 | 950.20 | 964.51 | -14.31 |
| E-001 | 1107.46 | 1099.75 | 1103.61 | 1122.38 | -18.77 |
| E-002 | 1106.55 | 1097.86 | 1108.20 | 1097.77 | 10.43 |
| E-003 | 1051.74 | 1047.66 | 1049.70 | 1067.93 | -18.23 |
| E-004 | 1057.68 | 1051.70 | 1054.69 | 1065.39 | -10.70 |
| E-005 | 1048.53 | 1043.28 | 1045.91 | 1054.79 | -8.88 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|-------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| E-006 | 1058.03 | 1047.55 | 1052.79 | 1058.49 | -5.69 |
| E-007 | 1025.34 | 1024.05 | 1024.69 | 1028.04 | -3.35 |
| E-008 | 1050.51 | 1045.50 | 1048.01 | 1045.99 | 2.02 |
| E-009 | 1095.05 | 1088.86 | 1091.95 | 1078.24 | 13.71 |
| E-010 | 1103.16 | 1091.86 | 1097.51 | 1099.23 | -1.72 |
| E-011 | 1050.79 | 1037.40 | 1044.10 | 1051.86 | -7.76 |
| E-012 | 1066.70 | 1058.02 | 1062.36 | 1058.74 | 3.63 |
| E-013 | 1057.80 | 1045.58 | 1051.69 | 1064.65 | -12.96 |
| E-014 | 1061.51 | 1050.62 | 1056.07 | 1059.95 | -3.88 |
| E-015 | 1055.45 | 1046.27 | 1050.86 | 1060.27 | -9.41 |
| E-016 | 1050.58 | 1046.30 | 1048.44 | 1046.45 | 1.99 |
| E-017 | 1091.35 | 1078.88 | 1085.12 | 1062.09 | 23.03 |
| E-018 | 1078.65 | 1068.10 | 1073.38 | 1065.28 | 8.10 |
| E-020 | 1064.70 | 1037.71 | 1051.20 | 1052.22 | -1.02 |
| E-021 | 1054.17 | 1042.94 | 1048.56 | 1052.12 | -3.56 |
| E-022 | 1063.82 | 1051.30 | 1057.56 | 1065.01 | -7.45 |
| F-001 | 998.30 | 993.75 | 996.03 | 990.35 | 5.68 |
| F-002 | 1017.30 | 1015.90 | 1016.60 | 1023.15 | -6.55 |
| F-004 | 1041.41 | 1032.40 | 1036.91 | 1013.62 | 23.29 |
| F-005 | 1020.50 | 1009.90 | 1015.20 | 1001.06 | 14.14 |
| F-007 | 1020.00 | 1014.30 | 1017.15 | 1016.39 | 0.76 |
| F-008 | 1043.00 | 1037.75 | 1040.38 | 1035.08 | 5.30 |
| F-009 | 1051.20 | 1037.90 | 1044.55 | 1044.73 | -0.18 |
| F-010 | 1043.44 | 1036.76 | 1040.10 | 1034.44 | 5.66 |
| F-011 | 1032.20 | 1016.20 | 1024.20 | 1007.42 | 16.78 |
| F-012 | 1022.40 | 1021.20 | 1021.80 | 1010.27 | 11.53 |
| F-013 | 1011.90 | 1007.70 | 1009.80 | 990.53 | 19.27 |
| F-015 | 1002.10 | 999.00 | 1000.55 | 990.12 | 10.43 |
| F-018 | 1009.50 | 1006.00 | 1007.75 | 1003.74 | 4.01 |
| F-019 | 1025.50 | 1016.70 | 1021.10 | 1020.14 | 0.96 |
| F-020 | 1043.90 | 1042.10 | 1043.00 | 1042.91 | 0.09 |
| F-021 | 1024.60 | 1019.20 | 1021.90 | 1029.60 | -7.70 |
| F-022 | 1052.10 | 1039.10 | 1045.60 | 1043.86 | 1.74 |
| F-023 | 1043.10 | 1035.10 | 1039.10 | 1033.08 | 6.02 |
| F-024 | 1039.60 | 1030.85 | 1035.22 | 1028.52 | 6.70 |

Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|-------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| F-025 | 1015.80 | 1004.50 | 1010.15 | 997.45 | 12.70 |
| F-027 | 998.60 | 984.50 | 991.55 | 973.59 | 17.96 |
| F-028 | 1003.50 | 994.10 | 998.80 | 981.16 | 17.64 |
| F-029 | 1048.00 | 1033.30 | 1040.65 | 1025.38 | 15.27 |
| F-030 | 1003.00 | 996.20 | 999.60 | 984.66 | 14.94 |
| F-031 | 976.50 | 973.20 | 974.85 | 976.30 | -1.45 |
| F-032 | 950.70 | 948.30 | 949.50 | 956.37 | -6.87 |
| F-033 | 984.90 | 981.80 | 983.35 | 985.92 | -2.57 |
| F-034 | 938.20 | 937.50 | 937.85 | 954.68 | -16.83 |
| F-035 | 1009.10 | 997.00 | 1003.05 | 1002.40 | 0.65 |
| F-036 | 1023.90 | 1010.60 | 1017.25 | 1018.90 | -1.65 |
| F-037 | 1026.00 | 1013.80 | 1019.90 | 982.69 | 37.21 |
| F-038 | 1007.50 | 1001.00 | 1004.25 | 984.28 | 19.97 |
| F-040 | 996.10 | 991.40 | 993.75 | 975.67 | 18.08 |
| F-041 | 1002.40 | 989.20 | 995.80 | 995.23 | 0.57 |
| F-042 | 1013.60 | 1013.50 | 1013.55 | 993.09 | 20.46 |
| F-043 | 942.90 | 939.10 | 941.00 | 956.78 | -15.78 |
| F-044 | 931.10 | 928.10 | 929.60 | 951.81 | -22.21 |
| F-046 | 1038.40 | 1029.20 | 1033.80 | 1035.34 | -1.54 |
| F-047 | 1030.20 | 1006.90 | 1018.55 | 1024.39 | -5.84 |
| F-048 | 952.30 | 951.10 | 951.70 | 957.59 | -5.89 |
| F-049 | 957.00 | 954.60 | 955.80 | 940.78 | 15.02 |
| F-050 | 954.70 | 953.10 | 953.90 | 961.93 | -8.03 |
| F-051 | 956.90 | 954.20 | 955.55 | 965.74 | -10.19 |
| F-052 | 941.50 | 940.00 | 940.75 | 948.49 | -7.74 |
| F-053 | 932.00 | 929.60 | 930.80 | 962.55 | -31.75 |
| F-059 | 1016.90 | 1007.30 | 1012.10 | 1029.02 | -16.92 |
| F-060 | 1021.10 | 1016.50 | 1018.80 | 1007.10 | 11.70 |
| R-002 | 972.06 | 965.14 | 968.60 | 977.57 | -8.97 |
| R-003 | 973.93 | 967.40 | 970.67 | 977.92 | -7.26 |
| R-006 | 972.11 | 966.62 | 969.37 | 985.02 | -15.66 |
| R-007 | 997.18 | 990.21 | 993.70 | 987.06 | 6.63 |
| R-016 | 966.66 | 958.36 | 962.51 | 980.44 | -17.93 |
| R-018 | 996.81 | 991.30 | 994.06 | 991.83 | 2.23 |
| R-021 | 960.34 | 953.90 | 957.12 | 980.93 | -23.81 |

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Appendix. Comparison of measured and simulated water-level altitudes for the Arnold Air Force Base area ground-water flow model.—Continued

| Well | Water-level elevation, in feet | | | | |
|-------|--------------------------------|--------------|---------|-----------|----------|
| | May 2002 | October 2002 | Average | Simulated | Residual |
| R-024 | 999.10 | 992.19 | 995.65 | 999.28 | -3.64 |
| R-026 | 1003.95 | 998.26 | 1001.11 | 992.64 | 8.47 |
| R-027 | 974.50 | 967.76 | 971.13 | 982.05 | -10.92 |
| R-028 | 972.03 | 965.50 | 968.77 | 982.63 | -13.86 |
| R-031 | 964.86 | 959.99 | 962.43 | 978.57 | -16.14 |
| R-033 | 961.98 | 956.93 | 959.46 | 980.11 | -20.65 |
| R-034 | 972.73 | 966.25 | 969.49 | 980.75 | -11.26 |
| R-035 | 995.08 | 988.41 | 991.75 | 1002.21 | -10.47 |
| R-040 | 994.25 | 987.65 | 990.95 | 998.49 | -7.54 |
| R-047 | 1016.34 | 1006.20 | 1011.27 | 994.05 | 17.22 |
| R-048 | 974.38 | 971.36 | 972.87 | 985.39 | -12.52 |
| R-050 | 979.65 | 975.78 | 977.72 | 982.65 | -4.93 |
| R-062 | 1015.82 | 1009.31 | 1012.57 | 1002.61 | 9.96 |
| R-065 | 998.17 | 987.29 | 992.73 | 993.08 | -0.35 |
| R-068 | 1025.67 | 1017.56 | 1021.62 | 1007.90 | 13.72 |
| R-100 | 979.63 | 974.00 | 976.82 | 984.83 | -8.02 |
| R-101 | 983.47 | 976.47 | 979.97 | 979.53 | 0.44 |
| R-102 | 966.61 | 962.25 | 964.43 | 967.48 | -3.05 |
| R-103 | 997.17 | 991.62 | 994.40 | 986.79 | 7.60 |
| R-104 | 1034.49 | 1015.57 | 1025.03 | 1014.78 | 10.25 |
| R-105 | 994.71 | 985.47 | 990.09 | 984.59 | 5.50 |
| S-001 | 950.60 | 938.94 | 944.77 | 956.56 | -11.79 |
| S-009 | 949.36 | 943.11 | 946.24 | 959.87 | -13.64 |
| S-017 | 940.46 | 931.08 | 935.77 | 958.23 | -22.46 |
| S-019 | 951.04 | 943.28 | 947.16 | 964.36 | -17.20 |
| S-022 | 941.55 | 933.46 | 937.51 | 955.08 | -17.58 |
| S-027 | 938.74 | 927.85 | 933.30 | 956.56 | -23.27 |
| S-029 | 960.97 | 941.55 | 951.26 | 959.57 | -8.31 |
| S-030 | 1046.10 | 1028.95 | 1037.53 | 1025.18 | 12.35 |
| S-031 | 1034.55 | 1030.31 | 1032.43 | 1021.75 | 10.68 |
| S-032 | 1007.13 | 1004.22 | 1005.68 | 995.34 | 10.34 |
| S-033 | 973.38 | 972.53 | 972.96 | 976.24 | -3.29 |
| S-034 | 1008.22 | 1004.81 | 1006.52 | 1012.49 | -5.97 |
| SH17 | 955.34 | 958.25 | 956.80 | 978.59 | -21.80 |
| SJO35 | 941.10 | 941.03 | 941.07 | 963.29 | -22.22 |