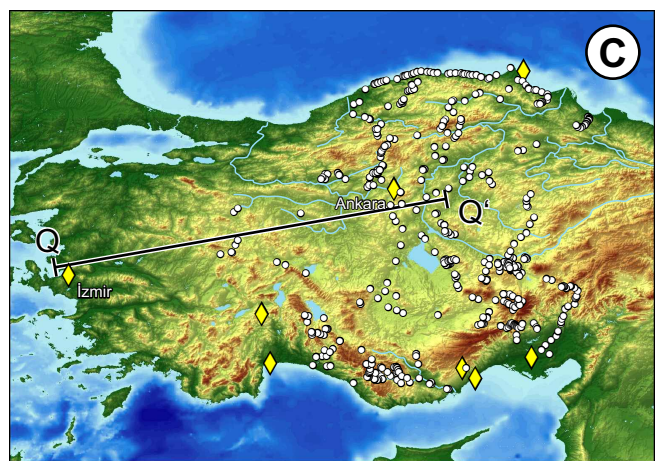
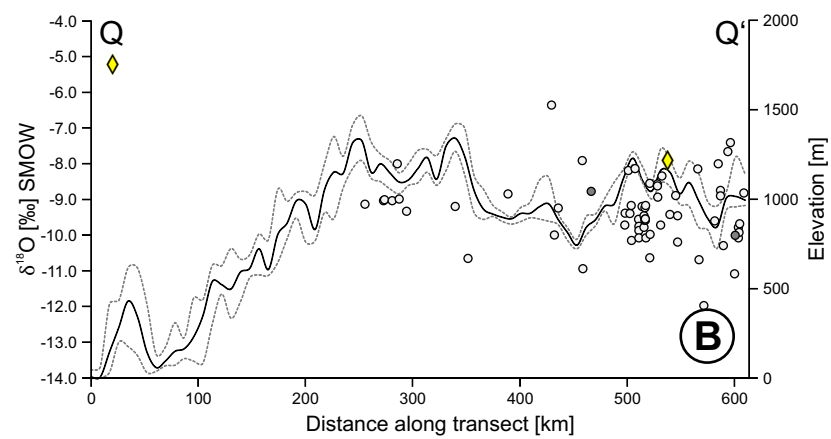
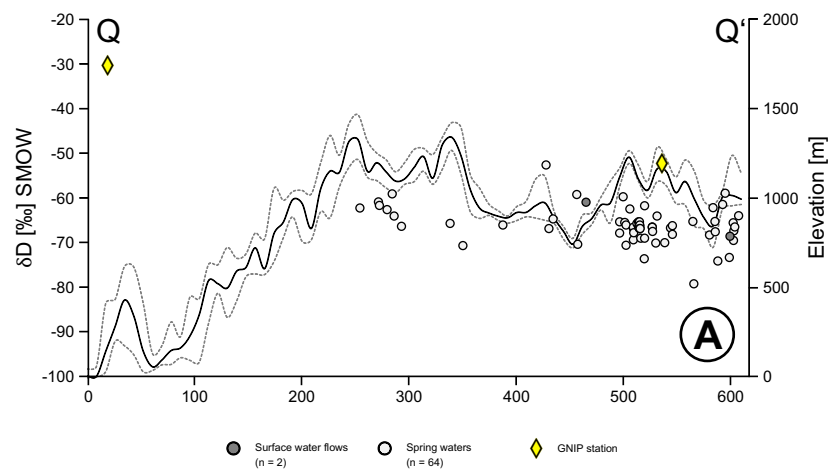


# Schemmel et al. - Fig. A1



## ELECTRONIC SUPPLEMENTARY MATERIAL

Figure A1. Spatial distribution of (A)  $\delta D$  and (B)  $\delta^{18}O$  from the Aegean coast towards the plateau interior (C). Included in the transect are samples within a 50-km-swath along the profile as well as the long-term  $\delta D_p$  and  $\delta^{18}O_p$  values of the GNIP stations at İzmir and Ankara (IAEA/WMO, 2006). Elevations (dotted and solid lines) correspond to the  $Q_{.25}$ ,  $Q_{.50}$  and  $Q_{.75}$  quantiles of the elevation distribution at any point along the swath profile.

Table A1. Geographic coordinates of sample locations (WGS84), elevations, calculated average catchment elevations and stable hydrogen and oxygen isotopic ratios of meteoric water samples in Central Anatolia.

| sample #   | sample type | latitude [°N] | longitude [°E] | sampling elev. [m] | average catchment elev. [m] | catchment area [km <sup>2</sup> ] | sampling date | $\delta D$ SMOW [‰] | $\delta^{18}O$ SMOW [‰] | $d$ [‰] |
|------------|-------------|---------------|----------------|--------------------|-----------------------------|-----------------------------------|---------------|---------------------|-------------------------|---------|
| 08-Erm-001 | stream      | 36.5603       | 32.9549        | 524                | 1612                        | 2476.95                           | 26. Sep 08    | -51.2               | -9.1                    | 21.2    |
| 08-Erm-002 | creek       | 36.5570       | 32.9404        | 520                | 1223                        | 115.26                            | 26. Sep 08    | -51.1               | -9.1                    | 21.9    |
| 08-Erm-005 | creek       | 36.6327       | 32.8255        | 605                | 1389                        | 411.52                            | 27. Sep 08    | -60.7               | -9.9                    | 18.7    |
| 08-Erm-009 | creek       | 36.6966       | 32.7675        | 785                | 1503                        | 224.12                            | 27. Sep 08    | -60.1               | -9.8                    | 18.5    |
| 08-Erm-010 | creek       | 36.6541       | 32.6184        | 1326               | 1789                        | 196.48                            | 27. Sep 08    | -54.2               | -9.2                    | 19.2    |
| 08-Erm-011 | creek       | 36.6148       | 32.6562        | 1061               | 1747                        | 230.34                            | 27. Sep 08    | -55.6               | -9.3                    | 18.8    |
| 08-Erm-012 | creek       | 36.5682       | 32.6806        | 730                | 1191                        | 3.75                              | 27. Sep 08    | -54.2               | -9.0                    | 18.1    |
| 08-Erm-013 | stream      | 36.5681       | 32.6809        | 705                | 1690                        | 1064.18                           | 27. Sep 08    | -46.2               | -8.1                    | 18.8    |
| 08-Erm-014 | stream      | 36.5628       | 32.6092        | 782                | 1707                        | 997.16                            | 27. Sep 08    | -47.5               | -8.1                    | 17.4    |
| 08-Erm-015 | creek       | 36.5511       | 32.5880        | 877                | 1509                        | 10.02                             | 27. Sep 08    | -52.1               | -8.8                    | 18.5    |
| 08-Erm-016 | creek       | 36.5605       | 32.5414        | 925                | 1136                        | 0.03                              | 27. Sep 08    | -39.4               | -7.0                    | 16.8    |
| 08-Erm-017 | creek       | 36.5663       | 32.5393        | 900                | 1714                        | 50.26                             | 27. Sep 08    | -49.2               | -8.4                    | 17.8    |
| 08-Erm-018 | stream      | 36.5663       | 32.5393        | 900                | 1723                        | 891.89                            | 27. Sep 08    | -48.3               | -8.1                    | 16.3    |
| 08-Erm-019 | creek       | 36.6083       | 32.4413        | 1058               | 1310                        | 0.20                              | 27. Sep 08    | -39.1               | -6.8                    | 15.4    |
| 08-Erm-020 | stream      | 36.6116       | 32.4217        | 1050               | 1787                        | 650.29                            | 27. Sep 08    | -49.3               | -8.3                    | 17.0    |
| 08-Erm-021 | creek       | 36.6130       | 32.4099        | 1085               | 1305                        | 0.32                              | 27. Sep 08    | -38.3               | -6.8                    | 15.7    |
| 08-Erm-022 | stream      | 36.6772       | 32.4402        | 1152               | 1865                        | 387.10                            | 27. Sep 08    | -52.2               | -8.8                    | 17.8    |
| 08-Erm-023 | creek       | 36.6852       | 32.5572        | 1416               | 1589                        | 2.19                              | 27. Sep 08    | -54.7               | -9.0                    | 17.6    |
| 08-Erm-024 | spring      | 36.6769       | 32.9342        | 1650               | 1674                        | 0.01                              | 28. Sep 08    | -61.4               | -10.0                   | 18.6    |
| 08-Erm-025 | spring      | 36.7011       | 32.9518        | 1568               | 1595                        | 0.00                              | 28. Sep 08    | -61.4               | -10.1                   | 19.3    |
| 08-Erm-026 | spring      | 36.7188       | 32.9315        | 1493               | 1537                        | 0.01                              | 28. Sep 08    | -61.9               | -10.1                   | 19.1    |
| 08-Erm-027 | creek       | 36.7188       | 32.9315        | 1485               | 1834                        | 152.54                            | 28. Sep 08    | -62.0               | -10.1                   | 18.7    |
| 08-Erm-030 | spring      | 36.7556       | 32.9072        | 1609               | 1708                        | 0.01                              | 28. Sep 08    | -65.4               | -10.5                   | 18.6    |
| 08-Erm-031 | spring      | 36.7764       | 32.8883        | 1631               | 1638                        | 0.00                              | 28. Sep 08    | -65.5               | -10.4                   | 17.5    |
| 08-Erm-032 | creek       | 36.7805       | 32.8918        | 1675               | 1778                        | 2.88                              | 28. Sep 08    | -63.8               | -10.2                   | 18.1    |
| 08-Erm-033 | creek       | 36.7917       | 32.9244        | 1710               | 1918                        | 19.13                             | 28. Sep 08    | -59.5               | -9.6                    | 17.3    |
| 08-Erm-034 | creek       | 36.7708       | 32.9372        | 1665               | 1874                        | 33.35                             | 28. Sep 08    | -64.0               | -10.2                   | 17.9    |

|            |        |         |         |      |      |          |            |       |       |      |
|------------|--------|---------|---------|------|------|----------|------------|-------|-------|------|
| 08-Erm-035 | creek  | 36.7339 | 32.9565 | 1542 | 1835 | 51.25    | 28. Sep 08 | -64.0 | -10.0 | 16.1 |
| 08-Erm-036 | creek  | 36.6943 | 32.9764 | 1460 | 1823 | 71.43    | 28. Sep 08 | -61.2 | -9.8  | 17.2 |
| 08-Erm-037 | creek  | 36.6933 | 32.9730 | 1425 | 1814 | 239.86   | 28. Sep 08 | -61.4 | -9.7  | 16.1 |
| 08-Erm-038 | creek  | 36.6193 | 33.0236 | 1020 | 1790 | 371.18   | 28. Sep 08 | -59.7 | -9.2  | 13.8 |
| 08-Erm-039 | stream | 36.5803 | 33.3270 | 128  | 1500 | 4662.55  | 28. Sep 08 | -51.3 | -7.9  | 12.1 |
| 08-Erm-040 | stream | 36.4861 | 33.5521 | 85   | 1382 | 12128.34 | 29. Sep 08 | -54.7 | -8.3  | 11.5 |
| 08-Erm-041 | spring | 36.3965 | 33.8511 | 106  | 177  | 0.02     | 29. Sep 08 | -33.7 | -6.2  | 15.9 |
| 08-Erm-042 | stream | 36.4008 | 33.8193 | 25   | 1345 | 12870.01 | 29. Sep 08 | -58.5 | -9.0  | 13.8 |
| 08-Erm-043 | creek  | 36.5085 | 33.5437 | 96   | 1531 | 1462.87  | 29. Sep 08 | -55.2 | -9.1  | 17.6 |
| 08-Erm-044 | spring | 36.6934 | 32.4496 | 1208 | 1301 | 0.03     | 30. Sep 08 | -48.4 | -8.3  | 18.1 |
| 08-Erm-045 | creek  | 36.7169 | 32.4609 | 1230 | 1894 | 345.18   | 30. Sep 08 | -47.9 | -8.1  | 16.8 |
| 08-Erm-046 | stream | 36.7536 | 32.4605 | 1282 | 1932 | 290.48   | 30. Sep 08 | -52.1 | -8.6  | 16.4 |
| 08-Erm-047 | creek  | 36.7536 | 32.4605 | 1282 | 1678 | 7.14     | 30. Sep 08 | -52.9 | -9.1  | 19.5 |
| 08-Erm-048 | stream | 36.8186 | 32.4374 | 1410 | 2003 | 207.61   | 30. Sep 08 | -53.3 | -9.1  | 19.3 |
| 08-Erm-049 | stream | 36.8355 | 32.3939 | 1470 | 2072 | 147.67   | 30. Sep 08 | -54.2 | -9.3  | 19.8 |
| 08-Erm-050 | creek  | 36.8365 | 32.4006 | 1450 | 1838 | 6.39     | 30. Sep 08 | -51.8 | -8.2  | 13.9 |
| 08-Erm-051 | creek  | 36.8403 | 32.4931 | 1816 | 1911 | 9.77     | 30. Sep 08 | -48.5 | -7.9  | 14.5 |
| 08-Erm-052 | creek  | 36.9179 | 32.4919 | 1508 | 1894 | 63.35    | 30. Sep 08 | -62.3 | -10.3 | 19.9 |
| 08-Erm-053 | stream | 37.0912 | 32.3113 | 1274 | 1863 | 436.34   | 30. Sep 08 | -61.8 | -10.1 | 19.1 |
| VP-01-01   | creek  | 36.4948 | 33.0089 | 1264 | 1480 | 6.24     | 13. May 09 | -53.9 | -10.1 | 27.1 |
| VP-01-02   | creek  | 36.5097 | 33.1649 | 518  | 1340 | 0.99     | 13. May 09 | -55.0 | -10.0 | 25.2 |
| VP-01-05   | spring | 36.7789 | 32.6511 | 1896 | 1924 | 0.01     | 18. May 09 | -55.8 | -9.5  | 20.4 |
| VP-01-06   | spring | 36.7723 | 32.6746 | 1855 | 1871 | 0.00     | 18. May 09 | -53.5 | -9.0  | 18.8 |
| VP-01-07   | spring | 36.5946 | 33.1177 | 698  | 861  | 0.02     | 19. May 09 | -59.1 | -9.7  | 18.4 |
| VP-01-08   | creek  | 36.8368 | 33.3160 | 1377 | 1491 | 0.01     | 21. May 09 | -43.0 | -7.0  | 13.2 |
| VP-01-09   | creek  | 37.3491 | 35.0496 | 627  | 1061 | 5.23     | 22. May 09 | -50.5 | -8.4  | 16.4 |
| VP-01-10   | spring | 37.2552 | 35.0545 | 251  | 365  | 0.02     | 22. May 09 | -43.9 | -7.4  | 15.6 |
| VP-01-11   | creek  | 36.7681 | 34.1613 | 1076 | 1405 | 5.47     | 23. May 09 | -46.4 | -8.0  | 17.2 |
| VP-01-12   | creek  | 37.0181 | 33.2788 | 1427 | 1426 | 0.00     | 24. May 09 | -47.4 | -7.2  | 10.3 |
| VP-01-13   | spring | 36.9764 | 33.2787 | 1468 | 1491 | 0.02     | 24. May 09 | -60.0 | -9.2  | 13.4 |
| VP-01-14   | stream | 36.4908 | 33.5117 | 118  | 880  | 315.72   | 26. May 09 | -40.3 | -7.1  | 16.1 |
| VP-01-15   | creek  | 36.5035 | 32.1692 | 612  | 880  | 0.08     | 27. May 09 | -27.6 | -5.5  | 16.1 |
| VP-01-16   | creek  | 36.7927 | 31.7054 | 175  | 261  | 0.22     | 29. May 09 | -24.0 | -4.6  | 12.9 |
| VP-01-17   | stream | 36.7963 | 31.6977 | 87   | 1077 | 257.40   | 29. May 09 | -32.4 | -6.2  | 17.0 |
| VP-01-18   | spring | 36.8071 | 31.7640 | 585  | 614  | 0.01     | 29. May 09 | -29.4 | -6.0  | 18.3 |
| VP-01-19   | creek  | 36.9735 | 31.6145 | 291  | 1032 | 45.14    | 29. May 09 | -37.5 | -7.0  | 18.3 |
| VP-01-20   | spring | 36.9772 | 31.6962 | 872  | 929  | 0.01     | 29. May 09 | -38.8 | -7.2  | 19.0 |
| VP-01-21   | spring | 37.1071 | 31.8032 | 1422 | 1495 | 0.01     | 29. May 09 | -43.8 | -7.9  | 19.2 |
| VP-01-22   | stream | 37.0806 | 31.6568 | 430  | 1447 | 788.59   | 30. May 09 | -48.1 | -8.3  | 18.4 |
| VP-01-23   | stream | 36.9696 | 31.5085 | 763  | 1182 | 8.89     | 30. May 09 | -31.6 | -6.4  | 19.5 |
| VP-01-24   | spring | 36.9665 | 31.5109 | 762  | 784  | 0.00     | 30. May 09 | -33.6 | -6.7  | 20.2 |
| VP-01-25   | stream | 36.8132 | 31.4543 | 19   | 1246 | 2438.06  | 30. May 09 | -46.9 | -8.2  | 18.9 |
| VP-01-26   | spring | 37.0468 | 31.7537 | 997  | 1042 | 0.03     | 31. May 09 | -36.8 | -8.0  | 27.3 |
| VP-01-28   | creek  | 37.2477 | 31.9283 | 1465 | 1737 | 0.31     | 31. May 09 | -52.1 | -9.4  | 22.9 |
| VP-01-29   | spring | 37.2477 | 31.9283 | 1465 | 1632 | 0.08     | 31. May 09 | -50.4 | -9.2  | 23.0 |
| VP-01-30   | creek  | 37.2477 | 31.9283 | 1465 | 1673 | 0.18     | 31. May 09 | -47.4 | -8.7  | 22.0 |
| VP-01-32   | creek  | 37.4576 | 31.7138 | 1683 | 2076 | 0.20     | 01. Jun 09 | -57.2 | -10.2 | 24.2 |
| VP-01-33   | spring | 37.4551 | 31.7014 | 1836 | 1882 | 0.01     | 01. Jun 09 | -58.8 | -10.5 | 24.8 |
| VP-01-34   | spring | 37.4601 | 31.6768 | 1582 | 1588 | 0.01     | 01. Jun 09 | -57.9 | -9.9  | 21.1 |
| VP-01-35   | spring | 37.3510 | 31.6469 | 1366 | 1405 | 0.05     | 01. Jun 09 | -49.9 | -9.0  | 21.9 |
| VP-01-36   | stream | 37.3615 | 31.5847 | 1381 | 1612 | 239.71   | 01. Jun 09 | -49.2 | -8.8  | 20.8 |
| VP-01-37   | spring | 37.3921 | 31.5339 | 1345 | 1371 | 0.04     | 01. Jun 09 | -52.4 | -9.1  | 20.4 |
| VP-01-38   | stream | 37.3536 | 31.4374 | 1212 | 1633 | 162.33   | 01. Jun 09 | -53.5 | -9.7  | 23.8 |
| VP-01-40   | spring | 37.3908 | 31.4393 | 1255 | 1273 | 0.00     | 01. Jun 09 | -48.4 | -8.5  | 19.9 |

|          |        |         |         |      |      |          |            |       |       |      |
|----------|--------|---------|---------|------|------|----------|------------|-------|-------|------|
| VP-01-41 | spring | 37.4057 | 31.4309 | 1272 | 1295 | 0.02     | 01. Jun 09 | -54.2 | -9.4  | 20.6 |
| VP-01-42 | spring | 37.6484 | 31.6459 | 1137 | 1147 | 0.17     | 01. Jun 09 | -63.7 | -10.3 | 18.7 |
| VP-01-46 | spring | 37.5806 | 31.3519 | 1424 | 1438 | 0.00     | 02. Jun 09 | -42.1 | -8.0  | 21.6 |
| VP-01-47 | stream | 37.6874 | 31.3717 | 1205 | 1781 | 88.35    | 02. Jun 09 | -53.6 | -9.2  | 20.0 |
| VP-01-48 | spring | 37.6961 | 31.3089 | 1503 | 1572 | 0.01     | 02. Jun 09 | -61.2 | -10.1 | 19.8 |
| VP-01-49 | creek  | 39.8701 | 33.0033 | 1052 | 1473 | 39.92    | 04. Jun 09 | -68.2 | -10.2 | 13.5 |
| VP-01-50 | spring | 39.8706 | 33.0031 | 1054 | 1150 | 0.01     | 04. Jun 09 | -66.2 | -9.5  | 9.6  |
| VP-01-51 | creek  | 40.2830 | 33.3927 | 963  | 1015 | 0.79     | 06. Jun 09 | -65.3 | -8.8  | 4.9  |
| VP-01-52 | spring | 40.2792 | 33.4249 | 965  | 965  | 0.00     | 06. Jun 09 | -74.1 | -10.3 | 8.4  |
| VP-01-53 | spring | 40.0915 | 32.6634 | 1023 | 1042 | 0.02     | 08. Jun 09 | -61.8 | -8.6  | 6.8  |
| VP-01-54 | spring | 40.0328 | 32.4598 | 962  | 977  | 0.01     | 08. Jun 09 | -65.5 | -9.4  | 9.8  |
| VP-02-01 | spring | 39.9686 | 32.4148 | 1074 | 1084 | 0.00     | 18. Jun 09 | -65.4 | -9.7  | 12.4 |
| VP-02-02 | stream | 39.8664 | 33.6281 | 779  | 1042 | 690.08   | 24. Jun 09 | -68.6 | -10.0 | 11.6 |
| VP-02-03 | stream | 40.0679 | 34.1021 | 616  | 1136 | 19807.58 | 24. Jun 09 | -62.2 | -8.6  | 6.4  |
| VP-02-04 | creek  | 40.1756 | 34.4416 | 767  | 1109 | 977.38   | 24. Jun 09 | -65.1 | -9.2  | 8.4  |
| VP-02-05 | spring | 40.2398 | 34.2305 | 665  | 672  | 0.03     | 25. Jun 09 | -67.0 | -9.5  | 8.8  |
| VP-02-08 | stream | 40.3215 | 34.2687 | 714  | 1088 | 180.38   | 26. Jun 09 | -64.8 | -9.2  | 8.6  |
| VP-02-09 | spring | 40.0113 | 34.6201 | 1183 | 1236 | 0.04     | 26. Jun 09 | -70.2 | -10.2 | 11.2 |
| VP-02-10 | stream | 40.0744 | 34.5744 | 902  | 1239 | 284.72   | 26. Jun 09 | -66.5 | -9.4  | 8.9  |
| VP-02-11 | stream | 40.3079 | 34.1199 | 565  | 1111 | 22705.00 | 27. Jun 09 | -61.4 | -8.0  | 2.8  |
| VP-02-13 | spring | 40.4484 | 33.7685 | 604  | 632  | 0.02     | 27. Jun 09 | -66.9 | -8.3  | -0.4 |
| VP-02-14 | stream | 40.4379 | 33.7433 | 605  | 1101 | 1897.41  | 27. Jun 09 | -64.7 | -8.2  | 0.5  |
| VP-02-15 | stream | 40.6794 | 33.8007 | 856  | 1305 | 327.17   | 27. Jun 09 | -66.3 | -8.9  | 4.8  |
| VP-02-18 | creek  | 40.8306 | 33.9518 | 1469 | 1562 | 0.09     | 01. Jul 09 | -71.1 | -10.4 | 12.1 |
| VP-02-19 | spring | 40.8591 | 33.9771 | 1746 | 1781 | 0.11     | 01. Jul 09 | -70.5 | -10.9 | 16.7 |
| VP-02-20 | spring | 40.9194 | 34.0221 | 1029 | 1036 | 0.00     | 01. Jul 09 | -65.0 | -9.2  | 8.8  |
| VP-02-21 | stream | 41.0430 | 34.0405 | 837  | 1478 | 75.15    | 01. Jul 09 | -72.1 | -10.8 | 14.3 |
| VP-02-22 | spring | 41.1274 | 34.0717 | 1641 | 1657 | 0.01     | 01. Jul 09 | -75.6 | -11.5 | 16.1 |
| VP-02-23 | stream | 41.1669 | 34.0688 | 1248 | 1570 | 44.14    | 01. Jul 09 | -71.4 | -10.8 | 15.1 |
| VP-02-24 | stream | 41.2848 | 33.9340 | 911  | 1459 | 280.19   | 01. Jul 09 | -71.0 | -10.7 | 14.7 |
| VP-02-25 | stream | 41.3691 | 33.8441 | 800  | 1474 | 297.30   | 01. Jul 09 | -70.8 | -10.7 | 14.7 |
| VP-02-27 | stream | 41.6315 | 34.3988 | 488  | 1126 | 78.58    | 03. Jul 09 | -73.0 | -10.8 | 13.1 |
| VP-02-28 | stream | 41.5985 | 34.3248 | 513  | 1165 | 180.82   | 05. Jul 09 | -71.5 | -10.5 | 12.5 |
| VP-02-29 | stream | 41.4878 | 34.1331 | 595  | 1162 | 346.27   | 05. Jul 09 | -75.9 | -11.0 | 12.2 |
| VP-02-30 | stream | 41.4929 | 33.9350 | 643  | 1120 | 2047.77  | 05. Jul 09 | -68.9 | -10.2 | 12.8 |
| VP-02-31 | stream | 41.4769 | 33.9056 | 665  | 1394 | 336.80   | 05. Jul 09 | -69.0 | -10.4 | 14.4 |
| VP-02-32 | stream | 41.5184 | 34.7590 | 285  | 1093 | 6224.98  | 06. Jul 09 | -68.9 | -10.1 | 11.9 |
| VP-02-33 | stream | 41.7001 | 34.9151 | 691  | 1134 | 33.60    | 06. Jul 09 | -67.8 | -10.4 | 15.2 |
| VP-02-34 | stream | 41.8602 | 35.0760 | 54   | 735  | 276.75   | 06. Jul 09 | -62.4 | -9.8  | 16.1 |
| VP-02-35 | creek  | 42.0705 | 34.9461 | 9    | 64   | 1.47     | 07. Jul 09 | -54.3 | -9.0  | 17.9 |
| VP-02-37 | spring | 41.1578 | 33.7925 | 1118 | 1218 | 0.01     | 10. Jul 09 | -72.1 | -10.9 | 14.8 |
| VP-02-38 | spring | 41.0659 | 33.7500 | 1830 | 1865 | 0.00     | 10. Jul 09 | -74.8 | -11.6 | 17.8 |
| VP-02-39 | stream | 40.9958 | 33.7020 | 1095 | 1704 | 116.09   | 10. Jul 09 | -72.8 | -10.9 | 14.0 |
| VP-02-40 | stream | 40.6769 | 33.5991 | 823  | 1283 | 172.66   | 10. Jul 09 | -69.3 | -10.1 | 11.3 |
| VP-02-42 | stream | 40.5186 | 33.6145 | 688  | 1168 | 1980.92  | 11. Jul 09 | -63.1 | -8.9  | 8.3  |
| VP-03-01 | spring | 37.9438 | 34.8249 | 1905 | 1907 | 0.00     | 21. Sep 09 | -79.5 | -11.3 | 10.7 |
| VP-03-02 | spring | 37.9140 | 34.8902 | 1911 | 1928 | 0.00     | 21. Sep 09 | -72.3 | -10.3 | 10.1 |
| VP-03-03 | stream | 37.8896 | 34.9184 | 1820 | 2124 | 6.24     | 21. Sep 09 | -74.3 | -10.9 | 12.9 |
| VP-03-04 | stream | 37.8895 | 34.9181 | 1819 | 2029 | 55.25    | 21. Sep 09 | -74.7 | -11.0 | 13.1 |
| VP-03-05 | spring | 37.7900 | 34.9881 | 1446 | 1456 | 0.01     | 21. Sep 09 | -59.2 | -7.4  | -0.2 |
| VP-03-06 | spring | 37.8665 | 34.9909 | 1861 | 1879 | 0.00     | 23. Sep 09 | -74.3 | -10.6 | 10.3 |
| VP-03-07 | spring | 37.8386 | 35.0239 | 1511 | 1520 | 0.01     | 23. Sep 09 | -67.1 | -8.6  | 1.4  |
| VP-03-08 | creek  | 37.9098 | 35.1165 | 1646 | 2002 | 6.89     | 23. Sep 09 | -74.7 | -10.9 | 12.4 |
| VP-03-09 | creek  | 37.9092 | 35.1175 | 1637 | 2005 | 6.93     | 23. Sep 09 | -76.0 | -10.5 | 7.8  |

|          |        |         |         |      |      |       |            |       |       |      |
|----------|--------|---------|---------|------|------|-------|------------|-------|-------|------|
| VP-03-10 | stream | 37.9086 | 35.1187 | 1630 | 2673 | 67.47 | 23. Sep 09 | -76.2 | -11.3 | 13.9 |
| VP-03-11 | spring | 39.1252 | 33.9609 | 1053 | 1054 | 0.00  | 25. Sep 09 | -62.2 | -8.2  | 3.7  |
| VP-03-12 | spring | 39.1210 | 33.8883 | 1013 | 1013 | 0.00  | 25. Sep 09 | -72.2 | -10.3 | 10.4 |
| VP-03-13 | spring | 39.1605 | 33.8466 | 1181 | 1194 | 0.09  | 25. Sep 09 | -64.0 | -8.8  | 6.7  |
| VP-03-14 | spring | 39.1570 | 33.7955 | 1182 | 1183 | 0.01  | 25. Sep 09 | -67.4 | -9.9  | 12.1 |
| VP-03-16 | spring | 39.3246 | 33.7172 | 1209 | 1240 | 0.01  | 25. Sep 09 | -73.3 | -11.1 | 15.5 |
| VP-03-17 | spring | 39.2953 | 33.7654 | 1132 | 1136 | 0.00  | 25. Sep 09 | -65.6 | -9.8  | 12.8 |
| VP-03-18 | spring | 39.2946 | 33.7799 | 1132 | 1159 | 0.02  | 25. Sep 09 | -66.5 | -9.7  | 11.1 |
| VP-03-19 | spring | 39.1892 | 33.7852 | 1295 | 1312 | 0.01  | 25. Sep 09 | -69.5 | -10.1 | 11.2 |
| TW-10-01 | creek  | 40.2049 | 32.5794 | 1040 | 1196 | 10.69 | 13. May 10 | -65.4 | -9.5  | 10.4 |
| TW-10-02 | spring | 40.2049 | 32.5794 | 1045 | 1098 | 0.02  | 13. May 10 | -66.5 | -9.8  | 11.9 |
| TW-10-03 | spring | 40.2637 | 32.5916 | 1254 | 1326 | 0.00  | 13. May 10 | -69.0 | -10.1 | 11.7 |
| TW-10-04 | creek  | 40.1334 | 32.4567 | 1068 | 1209 | 3.89  | 14. May 10 | -70.6 | -10.2 | 10.7 |
| TW-10-05 | spring | 40.1334 | 32.4564 | 1067 | 1095 | 0.03  | 14. May 10 | -66.1 | -9.2  | 7.4  |
| TW-10-06 | spring | 39.9582 | 32.4197 | 1040 | 1068 | 0.02  | 16. May 10 | -67.9 | -9.4  | 7.3  |
| TW-10-07 | spring | 40.0032 | 32.4481 | 944  | 953  | 0.01  | 17. May 10 | -59.8 | -8.2  | 5.9  |
| TW-10-08 | spring | 39.9935 | 32.5230 | 804  | 932  | 0.30  | 17. May 10 | -62.5 | -8.2  | 2.8  |
| TW-10-09 | creek  | 40.1998 | 32.5937 | 1022 | 1178 | 13.21 | 18. May 10 | -66.1 | -9.6  | 10.4 |
| TW-10-10 | spring | 40.1997 | 32.5936 | 1019 | 1025 | 0.00  | 18. May 10 | -66.4 | -9.6  | 10.4 |
| TW-10-11 | spring | 40.1995 | 32.5939 | 1013 | 1028 | 0.00  | 18. May 10 | -66.9 | -9.6  | 9.6  |
| TW-10-12 | spring | 40.2030 | 32.5898 | 999  | 1041 | 0.00  | 18. May 10 | -66.9 | -9.6  | 9.9  |
| TW-10-13 | creek  | 40.2029 | 32.5898 | 997  | 1186 | 12.17 | 18. May 10 | -65.4 | -9.3  | 8.6  |
| TW-10-14 | spring | 40.2137 | 32.5249 | 1200 | 1218 | 0.02  | 19. May 10 | -67.8 | -10.1 | 12.9 |
| TW-10-15 | creek  | 40.2166 | 32.5220 | 1181 | 1247 | 1.75  | 19. May 10 | -66.6 | -9.8  | 11.6 |
| TW-10-16 | spring | 40.2171 | 32.5221 | 1183 | 1217 | 0.02  | 19. May 10 | -69.4 | -9.9  | 9.7  |
| TW-10-17 | creek  | 40.2183 | 32.5204 | 1164 | 1243 | 1.94  | 19. May 10 | -66.9 | -9.6  | 9.7  |
| TW-10-18 | spring | 40.2056 | 32.5598 | 1166 | 1196 | 0.01  | 19. May 10 | -65.7 | -9.2  | 8.0  |
| TW-10-19 | spring | 39.1068 | 33.3722 | 917  | 990  | 0.42  | 20. May 10 | -79.2 | -10.7 | 6.4  |
| TW-10-20 | spring | 38.6092 | 33.8831 | 1306 | 1334 | 0.00  | 21. May 10 | -78.1 | -12.2 | 19.7 |
| TW-10-21 | spring | 38.5963 | 33.8523 | 1093 | 1113 | 0.01  | 21. May 10 | -66.3 | -8.6  | 2.8  |
| TW-10-22 | spring | 38.5955 | 33.8327 | 1039 | 1057 | 0.00  | 21. May 10 | -63.3 | -9.0  | 8.8  |
| TW-10-23 | spring | 38.5823 | 33.8049 | 966  | 1036 | 0.04  | 21. May 10 | -65.4 | -8.9  | 6.0  |
| TW-10-24 | spring | 38.6185 | 33.7849 | 988  | 991  | 0.00  | 21. May 10 | -65.4 | -10.3 | 16.7 |
| TW-10-25 | spring | 38.6715 | 33.8344 | 1205 | 1236 | 0.01  | 21. May 10 | -66.6 | -10.6 | 18.0 |
| TW-10-26 | spring | 38.6889 | 33.8015 | 1110 | 1119 | 0.01  | 21. May 10 | -64.7 | -10.2 | 16.6 |
| TW-10-27 | spring | 38.6766 | 33.7756 | 1051 | 1073 | 0.02  | 21. May 10 | -65.7 | -10.0 | 14.5 |
| TW-10-28 | stream | 38.6542 | 33.7670 | 988  | 1158 | 56.55 | 21. May 10 | -62.9 | -8.3  | 3.7  |
| TW-10-29 | spring | 38.6160 | 33.7793 | 964  | 991  | 0.03  | 21. May 10 | -72.2 | -10.3 | 9.9  |
| TW-10-30 | spring | 38.6581 | 33.8443 | 1244 | 1244 | 0.00  | 21. May 10 | -57.3 | -7.8  | 5.4  |
| TW-10-31 | spring | 38.6618 | 33.8835 | 1214 | 1218 | 0.00  | 21. May 10 | -63.6 | -8.6  | 4.9  |
| TW-10-32 | spring | 38.6708 | 33.8953 | 1214 | 1231 | 0.12  | 21. May 10 | -67.9 | -9.8  | 10.2 |
| TW-10-33 | spring | 38.6756 | 33.8998 | 1216 | 1220 | 0.02  | 21. May 10 | -64.6 | -8.9  | 6.8  |
| TW-10-34 | spring | 38.6928 | 33.9463 | 1317 | 1317 | 0.00  | 21. May 10 | -73.5 | -12.1 | 23.0 |
| TW-10-35 | spring | 38.6720 | 33.9825 | 1371 | 1396 | 0.01  | 21. May 10 | -75.1 | -12.2 | 22.8 |
| TW-10-36 | spring | 37.9664 | 34.6789 | 1264 | 1264 | 0.00  | 22. May 10 | -71.3 | -10.6 | 13.3 |
| TW-10-37 | spring | 38.0721 | 34.8161 | 1363 | 1363 | 0.00  | 22. May 10 | -73.4 | -11.8 | 20.6 |
| TW-10-38 | spring | 38.0710 | 34.8526 | 1375 | 1375 | 0.03  | 22. May 10 | -70.5 | -10.3 | 11.6 |
| TW-10-39 | spring | 38.0685 | 34.9310 | 1460 | 1460 | 0.00  | 22. May 10 | -75.4 | -10.7 | 10.1 |
| TW-10-40 | spring | 38.0348 | 34.9814 | 1540 | 1548 | 0.02  | 22. May 10 | -77.3 | -12.8 | 24.9 |
| TW-10-41 | spring | 37.9839 | 35.0834 | 1656 | 1656 | 0.02  | 22. May 10 | -72.7 | -12.1 | 24.3 |
| TW-10-42 | spring | 37.9573 | 35.0875 | 1741 | 1745 | 0.00  | 22. May 10 | -81.3 | -11.6 | 11.3 |
| TW-10-43 | spring | 37.9426 | 35.0818 | 1620 | 1626 | 0.00  | 22. May 10 | -81.4 | -11.6 | 11.7 |
| TW-10-44 | spring | 37.9125 | 35.0742 | 1573 | 1573 | 0.00  | 22. May 10 | -81.8 | -12.4 | 17.5 |
| TW-10-45 | stream | 37.8935 | 35.1007 | 1589 | 2524 | 85.69 | 22. May 10 | -77.4 | -11.9 | 17.4 |

|           |        |         |         |      |      |         |            |       |       |      |
|-----------|--------|---------|---------|------|------|---------|------------|-------|-------|------|
| TW-10-46  | stream | 37.8983 | 35.1061 | 1611 | 2534 | 84.83   | 22. May 10 | -78.8 | -11.9 | 16.4 |
| TW-10-47  | stream | 37.8878 | 35.1000 | 1533 | 2520 | 86.08   | 22. May 10 | -77.4 | -13.0 | 26.8 |
| TW-10-48  | spring | 37.9181 | 35.1341 | 1680 | 1711 | 0.00    | 22. May 10 | -76.3 | -11.6 | 16.8 |
| TW-10-49  | stream | 37.9181 | 35.1341 | 1680 | 2695 | 65.96   | 22. May 10 | -77.3 | -11.9 | 17.7 |
| TW-10-50  | creek  | 37.9410 | 35.1540 | 1637 | 2536 | 0.00    | 22. May 10 | -75.8 | -12.6 | 24.8 |
| TW-10-51  | spring | 37.8825 | 35.1077 | 1604 | 1604 | 0.01    | 22. May 10 | -79.1 | -11.8 | 15.5 |
| TW-10-52  | spring | 37.7601 | 34.5673 | 1115 | 1115 | 0.00    | 23. May 10 | -68.1 | -9.8  | 10.5 |
| TW-10-53  | spring | 37.6675 | 34.5324 | 1384 | 1386 | 0.00    | 23. May 10 | -71.4 | -10.1 | 9.2  |
| TW-10-54  | spring | 37.6579 | 34.5290 | 1460 | 1467 | 0.00    | 23. May 10 | -73.6 | -10.0 | 6.5  |
| TW-10-55  | spring | 37.5502 | 34.4734 | 1437 | 1489 | 0.21    | 23. May 10 | -73.5 | -10.2 | 8.4  |
| TW-10-56  | spring | 37.5473 | 34.4465 | 1465 | 1465 | 0.00    | 23. May 10 | -75.5 | -11.8 | 18.7 |
| TW-10-57  | spring | 37.5287 | 34.3706 | 1512 | 1518 | 0.02    | 23. May 10 | -73.2 | -10.1 | 7.4  |
| TW-10-58  | creek  | 37.5434 | 34.4222 | 1520 | 1642 | 12.18   | 23. May 10 | -72.8 | -11.5 | 19.4 |
| TW-10-59  | spring | 37.6630 | 34.4604 | 1212 | 1212 | 0.01    | 23. May 10 | -71.3 | -11.1 | 17.7 |
| TW-10-60  | spring | 37.5105 | 34.7705 | 947  | 997  | 0.05    | 24. May 10 | -64.0 | -11.2 | 25.4 |
| TW-10-61  | creek  | 37.5104 | 34.7736 | 940  | 1726 | 634.37  | 24. May 10 | -66.9 | -11.5 | 25.2 |
| TW-10-62  | spring | 37.4695 | 34.8793 | 1004 | 1004 | 0.00    | 24. May 10 | -68.5 | -12.2 | 29.2 |
| TW-10-63  | spring | 37.4916 | 34.9118 | 1190 | 1198 | 0.02    | 24. May 10 | -57.3 | -9.8  | 20.8 |
| TW-10-64  | creek  | 37.5304 | 34.9373 | 1169 | 1519 | 17.80   | 24. May 10 | -57.0 | -10.6 | 27.4 |
| TW-10-65  | spring | 37.5473 | 34.9452 | 1189 | 1190 | 0.00    | 24. May 10 | -65.6 | -10.6 | 19.1 |
| TW-10-66  | stream | 37.5563 | 34.9548 | 1106 | 1899 | 1280.32 | 24. May 10 | -74.3 | -11.2 | 15.1 |
| TW-10-67  | creek  | 37.5579 | 34.9756 | 1294 | 1839 | 6.92    | 24. May 10 | -60.9 | -11.3 | 29.2 |
| TW-10-68  | creek  | 37.5396 | 35.0113 | 1219 | 1736 | 4.88    | 24. May 10 | -57.0 | -10.7 | 28.3 |
| TW-10-69  | spring | 37.5329 | 35.0139 | 1175 | 1216 | 0.01    | 24. May 10 | -52.7 | -8.7  | 17.1 |
| TW-10-70  | spring | 37.5248 | 35.0325 | 1019 | 1117 | 0.04    | 24. May 10 | -53.5 | -10.1 | 27.4 |
| TW-10-71  | creek  | 37.5111 | 35.0331 | 935  | 1484 | 3.63    | 24. May 10 | -54.8 | -9.7  | 22.9 |
| TW-10-72  | stream | 37.5104 | 35.0545 | 890  | 1869 | 1363.76 | 24. May 10 | -71.3 | -12.3 | 27.2 |
| TW-10-73  | creek  | 37.4987 | 35.0683 | 864  | 1249 | 0.55    | 24. May 10 | -44.0 | -8.9  | 26.8 |
| TW-10-74  | spring | 37.4800 | 35.0829 | 881  | 911  | 0.01    | 24. May 10 | -42.9 | -8.9  | 28.3 |
| TW-10-75  | spring | 37.4845 | 35.1322 | 901  | 921  | 0.01    | 24. May 10 | -47.2 | -9.2  | 26.1 |
| TW-10-76  | stream | 37.5522 | 35.1545 | 913  | 1837 | 136.17  | 24. May 10 | -57.5 | -10.9 | 29.9 |
| TW-10-77  | stream | 37.5579 | 35.3527 | 675  | 1037 | 77.41   | 24. May 10 | -38.4 | -7.6  | 22.2 |
| TW-10-78  | creek  | 37.4854 | 35.4010 | 875  | 1167 | 11.17   | 24. May 10 | -42.9 | -7.7  | 18.3 |
| TW-10-79  | spring | 37.4625 | 35.4148 | 691  | 691  | 0.00    | 24. May 10 | -57.1 | -9.6  | 19.8 |
| TW-10-80  | spring | 37.1701 | 35.5608 | 206  | 209  | 0.00    | 24. May 10 | -29.4 | -5.0  | 10.7 |
| TW-10-81  | spring | 37.9818 | 34.3750 | 1174 | 1181 | 0.01    | 25. May 10 | -76.5 | -11.7 | 17.3 |
| TW-10-82  | spring | 38.0156 | 34.2709 | 1242 | 1242 | 0.05    | 25. May 10 | -73.6 | -12.5 | 26.4 |
| TW-10-83  | spring | 38.1764 | 34.0262 | 1052 | 1069 | 0.02    | 25. May 10 | -73.9 | -12.9 | 29.1 |
| TW-10-84  | spring | 38.2290 | 33.9997 | 998  | 998  | 0.19    | 25. May 10 | -66.2 | -8.5  | 2.0  |
| TW-10-85  | spring | 38.3555 | 33.9719 | 955  | 990  | 0.27    | 25. May 10 | -69.2 | -9.9  | 9.9  |
| TW-10-86  | spring | 38.3902 | 33.9904 | 964  | 1007 | 0.17    | 25. May 10 | -69.1 | -9.8  | 9.0  |
| TW-10-87  | spring | 38.4215 | 33.9597 | 980  | 990  | 0.05    | 25. May 10 | -67.7 | -9.8  | 10.3 |
| TW-10-88  | spring | 38.8146 | 33.6056 | 921  | 990  | 0.60    | 25. May 10 | -62.8 | -9.8  | 15.8 |
| TW-10-89  | spring | 39.0518 | 33.4353 | 906  | 990  | 2.94    | 25. May 10 | -86.4 | -12.0 | 9.4  |
| TW-10-90  | spring | 39.2270 | 33.0369 | 1001 | 1012 | 0.06    | 25. May 10 | -70.0 | -9.4  | 5.5  |
| TW-10-91  | spring | 39.3572 | 32.9142 | 1073 | 1087 | 0.01    | 25. May 10 | -70.1 | -9.7  | 7.7  |
| TW-10-92  | spring | 39.6408 | 32.8258 | 1058 | 1060 | 0.00    | 25. May 10 | -66.6 | -8.6  | 2.5  |
| TW-10-93  | stream | 40.1044 | 32.0277 | 502  | 1216 | 4629.62 | 26. May 10 | -61.0 | -8.8  | 9.3  |
| TW-10-94  | spring | 40.1707 | 31.9258 | 649  | 684  | 0.01    | 26. May 10 | -70.4 | -11.0 | 17.2 |
| TW-10-96  | spring | 40.2177 | 31.8916 | 810  | 858  | 0.02    | 26. May 10 | -70.8 | -10.9 | 16.6 |
| TW-10-97  | spring | 40.1853 | 31.9153 | 718  | 821  | 0.01    | 26. May 10 | -59.3 | -7.9  | 4.1  |
| TW-10-98  | stream | 40.1936 | 31.6674 | 504  | 1284 | 2476.48 | 26. May 10 | -66.1 | -9.7  | 11.2 |
| TW-10-99  | spring | 40.1918 | 31.7120 | 656  | 678  | 0.03    | 26. May 10 | -62.7 | -8.8  | 7.8  |
| TW-10-100 | spring | 40.1006 | 31.6723 | 485  | 498  | 0.00    | 26. May 10 | -64.7 | -9.3  | 9.4  |

|           |        |         |         |      |      |        |            |       |       |      |
|-----------|--------|---------|---------|------|------|--------|------------|-------|-------|------|
| TW-10-101 | spring | 40.1331 | 31.6238 | 551  | 615  | 0.00   | 26. May 10 | -66.9 | -10.0 | 13.2 |
| TW-10-102 | spring | 40.1050 | 31.5969 | 489  | 490  | 0.00   | 26. May 10 | -52.7 | -6.4  | -1.7 |
| VP-06-01  | spring | 38.6303 | 34.9101 | 1057 | 1080 | 0.00   | 15. Jun 10 | -81.5 | -11.4 | 9.5  |
| VP-06-02  | spring | 38.4894 | 34.9471 | 1330 | 1352 | 0.00   | 15. Jun 10 | -78.5 | -10.9 | 8.5  |
| VP-06-03  | spring | 38.4925 | 34.9507 | 1324 | 1324 | 0.00   | 15. Jun 10 | -78.5 | -10.9 | 9.0  |
| VP-06-04  | spring | 38.5124 | 34.9459 | 1276 | 1288 | 0.01   | 15. Jun 10 | -83.8 | -11.8 | 10.4 |
| VP-06-05  | spring | 38.5243 | 34.9331 | 1301 | 1306 | 0.00   | 15. Jun 10 | -80.9 | -11.3 | 9.2  |
| VP-06-06  | spring | 38.3332 | 34.5302 | 1333 | 1359 | 0.00   | 16. Jun 10 | -78.5 | -11.0 | 9.7  |
| VP-06-07  | spring | 38.3079 | 34.5080 | 1500 | 1510 | 0.01   | 16. Jun 10 | -79.8 | -11.2 | 10.1 |
| VP-06-08  | creek  | 38.3077 | 34.5093 | 1473 | 1668 | 3.82   | 16. Jun 10 | -78.3 | -11.0 | 9.8  |
| VP-06-09  | spring | 38.3154 | 34.5075 | 1466 | 1466 | 0.00   | 16. Jun 10 | -78.7 | -11.0 | 9.4  |
| VP-06-10  | spring | 38.3267 | 34.5201 | 1404 | 1404 | 0.00   | 16. Jun 10 | -78.7 | -11.0 | 9.3  |
| VP-06-11  | spring | 38.3524 | 34.4325 | 1355 | 1359 | 0.03   | 16. Jun 10 | -73.8 | -10.3 | 8.5  |
| VP-06-12  | creek  | 38.6235 | 34.8339 | 1145 | 1313 | 2.57   | 17. Jun 10 | -77.5 | -10.7 | 8.2  |
| VP-06-13  | spring | 38.6417 | 34.8291 | 1115 | 1126 | 0.03   | 17. Jun 10 | -85.1 | -11.8 | 9.5  |
| VP-06-14  | spring | 38.6356 | 34.8894 | 1179 | 1179 | 0.00   | 17. Jun 10 | -72.4 | -9.8  | 5.7  |
| VP-06-15  | spring | 38.7013 | 34.9724 | 1131 | 1131 | 0.00   | 18. Jun 10 | -68.2 | -9.1  | 4.5  |
| VP-06-16  | spring | 38.7072 | 34.9858 | 1115 | 1117 | 0.00   | 18. Jun 10 | -64.7 | -8.2  | 0.8  |
| VP-06-17  | spring | 38.7110 | 34.9907 | 1077 | 1082 | 0.00   | 18. Jun 10 | -66.6 | -8.8  | 4.1  |
| VP-06-18  | spring | 38.6408 | 34.9217 | 1058 | 1058 | 0.00   | 18. Jun 10 | -86.4 | -12.1 | 10.2 |
| VP-06-19  | spring | 38.6325 | 34.9168 | 1061 | 1061 | 0.01   | 18. Jun 10 | -85.8 | -12.0 | 10.0 |
| VP-06-20  | spring | 38.6272 | 34.7203 | 1152 | 1190 | 0.00   | 19. Jun 10 | -82.4 | -11.4 | 8.5  |
| VP-06-21  | spring | 38.7333 | 34.9305 | 938  | 939  | 0.01   | 19. Jun 10 | -67.8 | -9.0  | 4.1  |
| VP-06-22  | spring | 38.6963 | 35.2367 | 1077 | 1077 | 0.00   | 19. Jun 10 | -72.4 | -9.7  | 5.1  |
| VP-06-23  | spring | 38.7223 | 35.1943 | 1345 | 1369 | 0.01   | 19. Jun 10 | -69.9 | -9.4  | 5.5  |
| VP-06-24  | spring | 38.7150 | 35.2169 | 1223 | 1223 | 0.00   | 19. Jun 10 | -75.7 | -10.4 | 7.6  |
| VP-06-25  | spring | 38.6912 | 35.1865 | 1227 | 1227 | 0.01   | 19. Jun 10 | -73.1 | -10.4 | 10.3 |
| VP-06-26  | spring | 38.4465 | 35.1404 | 1101 | 1105 | 0.77   | 19. Jun 10 | -79.3 | -11.4 | 11.5 |
| VP-06-27  | spring | 38.4443 | 35.0733 | 1313 | 1332 | 0.01   | 19. Jun 10 | -82.1 | -11.8 | 12.6 |
| VP-06-28  | spring | 38.4480 | 35.0655 | 1435 | 1435 | 0.03   | 19. Jun 10 | -82.9 | -11.9 | 12.5 |
| VP-06-29  | spring | 38.4551 | 35.0483 | 1473 | 1497 | 0.02   | 19. Jun 10 | -83.6 | -11.9 | 11.3 |
| VP-06-30  | spring | 38.3924 | 35.1025 | 1122 | 1122 | 0.33   | 19. Jun 10 | -71.9 | -10.0 | 8.2  |
| VP-06-31  | spring | 38.5505 | 35.0837 | 1489 | 1491 | 0.01   | 19. Jun 10 | -76.5 | -10.8 | 10.1 |
| VP-06-32  | spring | 38.5715 | 35.0690 | 1390 | 1391 | 0.00   | 19. Jun 10 | -72.2 | -10.0 | 7.4  |
| VP-06-33  | spring | 38.6326 | 34.9388 | 1117 | 1117 | 0.00   | 20. Jun 10 | -85.9 | -12.2 | 11.5 |
| VP-06-34  | spring | 38.5920 | 34.9910 | 1210 | 1210 | 0.00   | 20. Jun 10 | -76.3 | -10.6 | 8.6  |
| VP-06-35  | spring | 38.5426 | 35.0226 | 1494 | 1514 | 0.01   | 20. Jun 10 | -77.2 | -11.0 | 10.7 |
| VP-06-36  | spring | 38.6175 | 34.9098 | 1091 | 1091 | 0.01   | 20. Jun 10 | -82.0 | -11.6 | 10.5 |
| VP-06-37  | spring | 38.5485 | 34.8702 | 1299 | 1317 | 0.02   | 20. Jun 10 | -78.0 | -10.8 | 8.2  |
| VP-06-38  | spring | 38.4738 | 34.7524 | 1432 | 1433 | 0.00   | 20. Jun 10 | -82.8 | -11.7 | 10.6 |
| VP-06-39  | spring | 38.5497 | 34.7495 | 1347 | 1353 | 0.28   | 20. Jun 10 | -84.1 | -11.7 | 9.7  |
| VP-06-40  | spring | 38.5999 | 34.7191 | 1262 | 1266 | 0.04   | 20. Jun 10 | -84.8 | -11.9 | 10.5 |
| VP-06-41  | spring | 38.6993 | 34.5748 | 1044 | 1044 | 0.00   | 21. Jun 10 | -80.0 | -11.1 | 8.6  |
| VP-06-42  | spring | 38.6358 | 34.4830 | 1101 | 1134 | 0.00   | 21. Jun 10 | -76.6 | -9.9  | 2.4  |
| VP-06-43  | spring | 38.5842 | 34.5668 | 1328 | 1362 | 0.01   | 21. Jun 10 | -82.4 | -11.6 | 10.4 |
| VP-06-44  | spring | 38.4739 | 34.5078 | 1316 | 1320 | 0.00   | 21. Jun 10 | -78.8 | -11.1 | 10.0 |
| VP-06-45  | spring | 38.6235 | 34.9142 | 1100 | 1100 | 0.01   | 22. Jun 10 | -86.2 | -12.3 | 12.1 |
| VP-06-46  | spring | 38.5840 | 34.8990 | 1160 | 1161 | 0.00   | 22. Jun 10 | -79.7 | -11.1 | 9.1  |
| VP-06-47  | spring | 38.5719 | 34.9173 | 1169 | 1169 | 0.01   | 22. Jun 10 | -82.2 | -10.9 | 4.7  |
| VP-06-48  | spring | 38.5243 | 34.9331 | 1297 | 1297 | 0.00   | 22. Jun 10 | -81.6 | -11.6 | 10.9 |
| VP-07-01  | spring | 40.0853 | 33.3671 | 1072 | 1094 | 0.00   | 6. Oct 10  | -68.3 | -9.6  | 8.7  |
| VP-07-03  | spring | 40.3390 | 32.6956 | 970  | 1033 | 0.05   | 10. Oct 10 | -66.4 | -9.7  | 11.5 |
| VP-07-04  | spring | 40.3494 | 32.6825 | 993  | 1012 | 0.00   | 10. Oct 10 | -68.6 | -9.9  | 10.4 |
| VP-07-05  | creek  | 40.3494 | 32.6825 | 993  | 1289 | 158.62 | 10. Oct 10 | -68.3 | -10.1 | 12.2 |

|           |        |         |         |      |      |         |            |       |       |      |
|-----------|--------|---------|---------|------|------|---------|------------|-------|-------|------|
| VP-07-06  | spring | 40.4910 | 32.6466 | 966  | 993  | 0.00    | 10. Oct 10 | -64.7 | -9.9  | 14.6 |
| VP-07-07  | spring | 40.5663 | 32.6529 | 1084 | 1113 | 0.01    | 10. Oct 10 | -72.2 | -10.7 | 13.6 |
| VP-07-08  | creek  | 40.5714 | 32.6610 | 1043 | 1268 | 0.18    | 10. Oct 10 | -69.1 | -10.1 | 12.0 |
| VP-07-09  | spring | 40.5850 | 32.6623 | 1061 | 1111 | 0.03    | 10. Oct 10 | -72.3 | -10.8 | 14.3 |
| VP-07-10  | creek  | 40.6061 | 32.6648 | 1097 | 1288 | 0.18    | 10. Oct 10 | -69.4 | -10.3 | 12.7 |
| VP-07-11  | spring | 40.6613 | 32.7075 | 1392 | 1404 | 0.00    | 10. Oct 10 | -76.5 | -11.6 | 16.2 |
| VP-07-12  | spring | 40.7038 | 32.7392 | 1483 | 1499 | 0.01    | 10. Oct 10 | -72.3 | -11.0 | 16.0 |
| VP-07-13  | spring | 40.8103 | 32.8938 | 1122 | 1131 | 0.00    | 10. Oct 10 | -75.7 | -11.0 | 12.0 |
| VP-07-14  | stream | 40.8257 | 32.8142 | 1100 | 1378 | 4.27    | 10. Oct 10 | -79.7 | -11.3 | 10.8 |
| VP-07-15  | spring | 40.8682 | 32.5957 | 1013 | 1073 | 0.02    | 10. Oct 10 | -66.1 | -9.2  | 7.3  |
| VP-07-16  | spring | 40.9141 | 32.5826 | 937  | 937  | 0.01    | 10. Oct 10 | -69.4 | -9.7  | 8.2  |
| VP-07-17  | spring | 40.9869 | 32.5632 | 662  | 683  | 0.07    | 10. Oct 10 | -73.9 | -10.9 | 13.3 |
| VP-07-18  | spring | 41.0744 | 32.6578 | 434  | 460  | 0.01    | 10. Oct 10 | -66.8 | -9.6  | 10.2 |
| VP-07-19  | spring | 41.3892 | 32.7786 | 988  | 998  | 0.00    | 10. Oct 10 | -68.2 | -10.5 | 16.0 |
| VP-07-20  | spring | 41.4297 | 32.9921 | 924  | 942  | 0.01    | 10. Oct 10 | -71.9 | -10.6 | 13.2 |
| VP-07-21  | spring | 41.4469 | 33.0373 | 974  | 984  | 0.00    | 10. Oct 10 | -71.0 | -10.4 | 12.4 |
| VP-07-22  | spring | 41.4703 | 33.0246 | 958  | 972  | 0.02    | 10. Oct 10 | -72.9 | -10.6 | 12.2 |
| VP-07-23  | spring | 41.4826 | 33.0273 | 984  | 1002 | 0.01    | 10. Oct 10 | -73.9 | -10.8 | 12.3 |
| VP-07-24  | spring | 41.5117 | 33.0565 | 998  | 1017 | 0.00    | 10. Oct 10 | -74.7 | -10.9 | 12.2 |
| VP-07-26  | spring | 41.6588 | 33.1272 | 457  | 581  | 0.02    | 10. Oct 10 | -71.9 | -10.5 | 12.2 |
| VP-07-27  | stream | 41.6706 | 33.1576 | 413  | 1121 | 1702.88 | 10. Oct 10 | -71.3 | -10.0 | 8.9  |
| VP-07-29  | spring | 41.6772 | 33.1983 | 794  | 804  | 0.00    | 10. Oct 10 | -78.6 | -11.5 | 13.5 |
| VP-07-30  | spring | 41.6961 | 33.2417 | 813  | 840  | 0.00    | 10. Oct 10 | -76.7 | -11.1 | 11.8 |
| VP-07-31  | creek  | 41.7010 | 33.2433 | 848  | 945  | 0.26    | 10. Oct 10 | -61.3 | -8.7  | 8.6  |
| VP-07-32  | spring | 41.7728 | 33.1943 | 451  | 457  | 0.00    | 10. Oct 10 | -73.9 | -11.0 | 13.9 |
| VP-07-33  | spring | 41.7751 | 33.2068 | 570  | 586  | 0.00    | 10. Oct 10 | -68.6 | -10.8 | 17.6 |
| VP-07-34  | spring | 41.8275 | 33.3051 | 463  | 473  | 0.01    | 10. Oct 10 | -71.0 | -11.2 | 18.2 |
| VP-07-35  | spring | 41.1232 | 33.7629 | 1224 | 1347 | 0.01    | 11. Oct 10 | -71.6 | -10.8 | 15.1 |
| VP-07-36  | spring | 41.0415 | 33.7359 | 1501 | 1601 | 0.01    | 11. Oct 10 | -78.6 | -11.9 | 16.8 |
| VP-07-37  | spring | 40.8779 | 33.2973 | 1327 | 1344 | 0.00    | 12. Oct 10 | -79.5 | -11.5 | 12.3 |
| VP-07-38  | spring | 40.9259 | 33.8303 | 765  | 780  | 0.01    | 14. Oct 10 | -73.5 | -11.1 | 15.5 |
| VP-07-39  | spring | 40.7119 | 32.7681 | 1297 | 1297 | 0.00    | 14. Oct 10 | -68.3 | -9.8  | 10.4 |
| VP-07-40  | spring | 40.6814 | 32.7207 | 1505 | 1527 | 0.01    | 14. Oct 10 | -81.1 | -11.9 | 13.9 |
| VP-07-41  | spring | 40.2227 | 32.5939 | 1032 | 1059 | 0.00    | 15. Oct 10 | -66.9 | -9.2  | 6.6  |
| VP-07-42  | spring | 40.2677 | 32.6300 | 1256 | 1277 | 0.00    | 15. Oct 10 | -73.6 | -10.7 | 11.6 |
| VP-07-43  | spring | 40.2650 | 32.6351 | 1215 | 1248 | 0.01    | 15. Oct 10 | -69.0 | -10.0 | 10.9 |
| VP-08-001 | spring | 38.0427 | 32.9239 | 988  | 1045 | 0.08    | 24. May 11 | -95.8 | -13.0 | 7.8  |
| VP-08-002 | creek  | 37.0106 | 35.6322 | 83   | 168  | 21.97   | 27. May 11 | -25.9 | -4.5  | 10.3 |
| VP-08-003 | spring | 37.0893 | 35.4907 | 230  | 206  | 0.00    | 29. May 11 | -30.7 | -5.3  | 11.9 |
| VP-08-004 | spring | 37.2591 | 35.6635 | 82   | 82   | 0.00    | 29. May 11 | -28.2 | -5.1  | 12.4 |
| VP-08-005 | stream | 37.3405 | 35.7541 | 70   | 319  | 212.63  | 29. May 11 | -29.4 | -5.6  | 15.1 |
| VP-08-006 | stream | 37.4118 | 35.7841 | 99   | 603  | 356.12  | 29. May 11 | -33.2 | -6.4  | 17.9 |
| VP-08-007 | creek  | 37.5502 | 35.8353 | 293  | 532  | 7.16    | 29. May 11 | -36.9 | -7.0  | 19.4 |
| VP-08-008 | stream | 37.5733 | 35.8375 | 360  | 797  | 27.05   | 29. May 11 | -35.4 | -6.9  | 20.0 |
| VP-08-009 | spring | 37.6367 | 35.8489 | 658  | 704  | 0.01    | 29. May 11 | -38.6 | -7.3  | 20.0 |
| VP-08-010 | spring | 37.6864 | 35.8772 | 649  | 650  | 0.00    | 29. May 11 | -40.5 | -7.4  | 19.0 |
| VP-08-011 | stream | 37.8158 | 35.9085 | 556  | 1504 | 735.42  | 29. May 11 | -53.3 | -9.1  | 19.3 |
| VP-08-012 | stream | 37.8532 | 35.9597 | 595  | 1618 | 3281.78 | 29. May 11 | -58.0 | -9.4  | 17.0 |
| VP-08-013 | creek  | 37.8989 | 36.0760 | 737  | 1503 | 221.32  | 29. May 11 | -52.3 | -8.8  | 18.1 |
| VP-08-014 | spring | 37.9934 | 36.0927 | 971  | 1042 | 0.02    | 29. May 11 | -49.2 | -8.3  | 16.9 |
| VP-08-015 | spring | 38.0221 | 36.1055 | 1221 | 1320 | 0.01    | 29. May 11 | -51.2 | -8.7  | 18.1 |
| VP-08-016 | spring | 38.0403 | 36.1125 | 1451 | 1467 | 0.01    | 29. May 11 | -49.8 | -8.3  | 16.9 |
| VP-08-017 | stream | 38.1336 | 36.1315 | 1382 | 1663 | 38.84   | 29. May 11 | -57.0 | -8.9  | 14.0 |
| VP-08-018 | spring | 38.1847 | 36.0758 | 1570 | 1571 | 0.00    | 29. May 11 | -67.6 | -10.2 | 13.8 |

|           |        |         |         |      |      |         |            |       |       |      |
|-----------|--------|---------|---------|------|------|---------|------------|-------|-------|------|
| VP-08-019 | creek  | 38.2119 | 36.0133 | 1710 | 1992 | 5.84    | 29. May 11 | -64.3 | -10.0 | 15.5 |
| VP-08-020 | spring | 38.2082 | 36.0006 | 1872 | 1912 | 0.00    | 29. May 11 | -70.3 | -10.6 | 14.7 |
| VP-08-021 | spring | 38.1721 | 35.9272 | 1648 | 1648 | 0.00    | 29. May 11 | -71.8 | -10.9 | 15.1 |
| VP-08-022 | spring | 38.2025 | 35.8943 | 1474 | 1499 | 0.01    | 29. May 11 | -69.6 | -10.3 | 12.9 |
| VP-08-023 | spring | 38.2084 | 35.8886 | 1436 | 1467 | 0.01    | 29. May 11 | -65.2 | -9.2  | 8.7  |
| VP-08-024 | stream | 38.2107 | 35.8692 | 1341 | 1708 | 7113.39 | 29. May 11 | -69.0 | -10.2 | 12.6 |
| VP-08-025 | stream | 38.2026 | 35.8479 | 1330 | 1803 | 152.53  | 29. May 11 | -60.3 | -9.6  | 16.1 |
| VP-08-026 | spring | 38.3214 | 35.6740 | 1314 | 1330 | 0.03    | 29. May 11 | -75.1 | -10.7 | 10.7 |
| VP-08-027 | spring | 38.3457 | 35.5801 | 1392 | 1392 | 0.00    | 29. May 11 | -76.5 | -11.0 | 11.5 |
| VP-08-028 | spring | 38.0762 | 34.8191 | 1360 | 1360 | 0.03    | 30. May 11 | -76.9 | -10.8 | 9.2  |
| VP-08-029 | creek  | 37.9839 | 35.0833 | 1659 | 1995 | 22.58   | 30. May 11 | -74.9 | -10.9 | 12.0 |
| VP-08-030 | spring | 37.7064 | 33.6618 | 1052 | 1052 | 0.01    | 30. May 11 | -71.6 | -10.3 | 10.9 |
| VP-08-031 | spring | 37.7381 | 33.0439 | 1008 | 1045 | 0.00    | 30. May 11 | -63.5 | -9.2  | 9.9  |
| VP-08-032 | spring | 37.7836 | 32.9323 | 1007 | 1045 | 0.95    | 30. May 11 | -77.1 | -11.1 | 11.6 |
| VP-08-033 | spring | 37.8381 | 32.7835 | 1007 | 1045 | 0.84    | 30. May 11 | -70.3 | -10.1 | 10.8 |
| VP-08-034 | spring | 37.9959 | 32.6012 | 1002 | 1045 | 1.05    | 30. May 11 | -69.2 | -10.0 | 10.7 |
| VP-08-035 | spring | 38.1216 | 32.7295 | 1060 | 1060 | 0.01    | 30. May 11 | -73.6 | -10.8 | 12.8 |
| VP-08-036 | spring | 38.2761 | 32.7650 | 981  | 990  | 0.23    | 30. May 11 | -69.6 | -10.3 | 12.6 |
| VP-08-037 | spring | 38.6555 | 32.9185 | 954  | 990  | 0.84    | 30. May 11 | -71.3 | -9.6  | 5.6  |
| VP-08-038 | spring | 38.9359 | 33.0035 | 975  | 990  | 0.20    | 30. May 11 | -64.1 | -8.4  | 2.8  |
| VP-08-039 | spring | 39.4497 | 32.8649 | 1102 | 1108 | 0.01    | 30. May 11 | -67.5 | -9.0  | 4.1  |
| VP-08-040 | spring | 39.6408 | 32.8258 | 1059 | 1060 | 0.00    | 30. May 11 | -66.5 | -8.6  | 2.2  |
| VP-08-041 | spring | 39.6705 | 33.0207 | 1010 | 1029 | 0.01    | 04. Jun 11 | -66.7 | -8.9  | 4.6  |
| VP-08-042 | spring | 39.5575 | 33.2798 | 944  | 951  | 0.01    | 04. Jun 11 | -65.3 | -8.2  | 0.1  |
| VP-08-043 | spring | 39.7835 | 33.4590 | 680  | 678  | 0.00    | 04. Jun 11 | -62.2 | -8.0  | 2.0  |
| VP-08-044 | spring | 40.2695 | 33.3962 | 919  | 929  | 0.01    | 04. Jun 11 | -67.6 | -8.9  | 3.8  |
| VP-08-045 | creek  | 39.4982 | 33.6405 | 896  | 1051 | 234.60  | 06. Jun 11 | -59.0 | -7.4  | 0.4  |
| VP-08-046 | spring | 39.4945 | 33.6134 | 938  | 940  | 0.01    | 06. Jun 11 | -61.5 | -7.7  | -0.1 |
| VP-08-048 | spring | 38.1684 | 32.4667 | 1214 | 1214 | 0.00    | 07. Jun 11 | -68.7 | -9.4  | 6.1  |
| VP-08-049 | spring | 37.8971 | 32.2953 | 1270 | 1276 | 0.01    | 07. Jun 11 | -60.6 | -8.3  | 6.0  |
| VP-08-050 | spring | 37.9285 | 32.2831 | 1319 | 1337 | 0.00    | 07. Jun 11 | -73.8 | -10.5 | 10.1 |
| VP-08-051 | stream | 40.9929 | 32.5932 | 590  | 1182 | 474.48  | 09. Jun 11 | -72.9 | -10.7 | 12.6 |
| VP-08-052 | creek  | 41.1577 | 32.4652 | 231  | 1264 | 0.56    | 09. Jun 11 | -69.5 | -10.5 | 14.6 |
| VP-08-053 | creek  | 41.1728 | 32.4469 | 184  | 831  | 1.33    | 09. Jun 11 | -67.0 | -10.3 | 15.6 |
| VP-08-054 | stream | 41.2042 | 32.3680 | 144  | 1097 | 155.40  | 09. Jun 11 | -70.1 | -10.7 | 15.3 |
| VP-08-055 | creek  | 41.2530 | 32.1616 | 90   | 605  | 37.00   | 09. Jun 11 | -63.7 | -9.8  | 14.9 |
| VP-08-056 | spring | 41.4218 | 32.1759 | 30   | 39   | 0.00    | 09. Jun 11 | -51.4 | -7.7  | 10.0 |
| VP-08-057 | spring | 41.4686 | 32.2751 | 71   | 85   | 0.01    | 09. Jun 11 | -61.1 | -9.2  | 12.3 |
| VP-08-058 | spring | 41.6872 | 32.3789 | 60   | 84   | 0.00    | 09. Jun 11 | -61.9 | -10.1 | 19.1 |
| VP-08-059 | spring | 41.7854 | 32.5370 | 6    | 35   | 0.00    | 10. Jun 11 | -59.2 | -9.6  | 17.9 |
| VP-08-060 | spring | 41.7850 | 32.5407 | 9    | 14   | 0.02    | 10. Jun 11 | -60.4 | -9.7  | 17.2 |
| VP-08-061 | spring | 41.7890 | 32.5515 | 43   | 62   | 0.00    | 10. Jun 11 | -61.9 | -10.0 | 17.7 |
| VP-08-062 | spring | 41.8118 | 32.5921 | 224  | 277  | 0.01    | 10. Jun 11 | -59.2 | -9.7  | 18.2 |
| VP-08-063 | creek  | 41.8064 | 32.5970 | 185  | 354  | 0.05    | 10. Jun 11 | -58.6 | -9.7  | 18.7 |
| VP-08-064 | creek  | 41.7999 | 32.6066 | 116  | 413  | 15.47   | 10. Jun 11 | -61.7 | -9.9  | 17.6 |
| VP-08-065 | spring | 41.8280 | 32.6577 | 128  | 148  | 0.00    | 10. Jun 11 | -59.9 | -9.5  | 15.8 |
| VP-08-066 | creek  | 41.8357 | 32.7091 | 51   | 420  | 2.73    | 10. Jun 11 | -63.7 | -9.9  | 15.4 |
| VP-08-067 | spring | 41.8454 | 32.7493 | 73   | 90   | 0.01    | 10. Jun 11 | -57.0 | -8.9  | 14.5 |
| VP-08-068 | stream | 41.8716 | 32.9429 | -1   | 1005 | 2847.10 | 10. Jun 11 | -66.3 | -9.7  | 11.1 |
| VP-08-069 | creek  | 41.9226 | 33.0509 | 120  | 350  | 2.51    | 10. Jun 11 | -55.1 | -8.7  | 14.7 |
| VP-08-070 | spring | 41.9311 | 33.0723 | 114  | 136  | 0.02    | 10. Jun 11 | -56.1 | -8.6  | 12.6 |
| VP-08-071 | stream | 41.9318 | 33.0864 | 5    | 906  | 741.68  | 10. Jun 11 | -66.3 | -10.0 | 14.0 |
| VP-08-072 | creek  | 41.9441 | 33.1222 | 166  | 326  | 0.14    | 10. Jun 11 | -56.4 | -8.9  | 15.0 |
| VP-08-073 | creek  | 41.9606 | 33.2040 | 35   | 229  | 0.78    | 10. Jun 11 | -58.2 | -9.2  | 15.3 |

|           |        |         |         |      |      |        |            |       |       |      |
|-----------|--------|---------|---------|------|------|--------|------------|-------|-------|------|
| VP-08-074 | creek  | 41.9735 | 33.2337 | 6    | 461  | 31.42  | 10. Jun 11 | -62.6 | -9.9  | 16.4 |
| VP-08-075 | spring | 42.0038 | 33.2945 | 34   | 38   | 0.00   | 10. Jun 11 | -54.2 | -8.8  | 16.4 |
| VP-08-076 | stream | 42.0102 | 33.3652 | 2    | 668  | 192.04 | 10. Jun 11 | -65.6 | -10.3 | 16.9 |
| VP-08-077 | creek  | 42.0037 | 33.4704 | 62   | 284  | 0.94   | 10. Jun 11 | -56.3 | -9.2  | 17.5 |
| VP-08-078 | creek  | 41.9916 | 33.5298 | 4    | 682  | 131.35 | 10. Jun 11 | -67.1 | -10.5 | 17.1 |
| VP-08-079 | spring | 41.9845 | 33.5852 | 97   | 132  | 0.00   | 10. Jun 11 | -58.4 | -9.4  | 16.6 |
| VP-08-080 | creek  | 41.9838 | 33.6530 | 35   | 537  | 1.36   | 10. Jun 11 | -56.9 | -9.3  | 17.8 |
| VP-08-081 | creek  | 41.9689 | 33.8403 | 45   | 648  | 22.98  | 11. Jun 11 | -59.0 | -9.5  | 16.8 |
| VP-08-082 | stream | 41.9739 | 33.8852 | 5    | 917  | 113.04 | 11. Jun 11 | -64.6 | -9.8  | 13.9 |
| VP-08-083 | stream | 41.9797 | 33.9728 | 1    | 921  | 99.03  | 11. Jun 11 | -65.0 | -9.9  | 14.1 |
| VP-08-084 | creek  | 41.9777 | 34.0726 | 49   | 293  | 0.21   | 11. Jun 11 | -54.0 | -8.6  | 14.6 |
| VP-08-085 | creek  | 41.9625 | 34.1073 | 112  | 449  | 17.44  | 11. Jun 11 | -58.6 | -9.2  | 15.0 |
| VP-08-086 | spring | 41.9658 | 34.1313 | 217  | 239  | 0.00   | 11. Jun 11 | -58.4 | -9.5  | 17.4 |
| VP-08-087 | stream | 41.9570 | 34.1920 | 8    | 571  | 54.42  | 11. Jun 11 | -61.7 | -9.6  | 15.4 |
| VP-08-088 | stream | 41.9501 | 34.2277 | 9    | 960  | 470.83 | 11. Jun 11 | -59.3 | -9.3  | 14.8 |
| VP-08-089 | creek  | 41.9466 | 34.2714 | 5    | 356  | 3.17   | 11. Jun 11 | -50.6 | -8.1  | 14.0 |
| VP-08-090 | stream | 41.9479 | 34.3407 | 7    | 620  | 133.82 | 11. Jun 11 | -53.7 | -8.6  | 15.0 |
| VP-08-091 | stream | 41.9104 | 34.4232 | 60   | 369  | 76.12  | 11. Jun 11 | -47.3 | -7.6  | 13.8 |
| VP-08-092 | spring | 41.8773 | 34.5487 | 126  | 131  | 0.00   | 11. Jun 11 | -63.8 | -9.9  | 15.3 |
| VP-08-093 | stream | 41.8943 | 34.5724 | 104  | 845  | 221.20 | 11. Jun 11 | -57.3 | -9.1  | 15.4 |
| VP-08-094 | creek  | 41.9452 | 34.6936 | 16   | 362  | 46.70  | 11. Jun 11 | -57.7 | -9.3  | 16.8 |
| VP-08-095 | stream | 41.8340 | 35.1571 | -7   | 826  | 301.73 | 11. Jun 11 | -62.0 | -9.5  | 13.7 |
| VP-08-096 | spring | 41.7578 | 35.2135 | 90   | 127  | 0.01   | 11. Jun 11 | -54.0 | -8.6  | 14.6 |
| VP-08-097 | spring | 41.7104 | 35.2614 | 248  | 302  | 0.01   | 11. Jun 11 | -54.2 | -8.9  | 17.3 |
| VP-08-098 | creek  | 41.7016 | 35.2672 | 236  | 550  | 1.18   | 11. Jun 11 | -54.2 | -8.9  | 17.2 |
| VP-08-099 | stream | 41.6798 | 35.3657 | 41   | 861  | 673.70 | 11. Jun 11 | -60.2 | -9.4  | 14.8 |
| VP-08-100 | stream | 41.6757 | 35.3995 | 16   | 832  | 753.25 | 11. Jun 11 | -59.9 | -9.5  | 16.3 |
| VP-08-101 | stream | 41.6393 | 35.4956 | 0    | 770  | 132.23 | 11. Jun 11 | -58.5 | -9.2  | 15.3 |
| VP-08-102 | stream | 41.6031 | 35.5955 | 29   | 601  | 156.92 | 11. Jun 11 | -56.2 | -9.1  | 16.2 |
| VP-08-103 | spring | 41.5050 | 35.5907 | 813  | 816  | 0.01   | 11. Jun 11 | -65.2 | -10.4 | 18.2 |
| VP-08-104 | creek  | 41.4628 | 35.5067 | 1058 | 1108 | 0.01   | 11. Jun 11 | -59.1 | -9.3  | 15.6 |
| VP-08-105 | creek  | 41.4626 | 35.5043 | 1061 | 1330 | 1.91   | 11. Jun 11 | -64.2 | -10.1 | 16.4 |
| VP-08-106 | spring | 41.4599 | 35.4803 | 1226 | 1237 | 0.00   | 11. Jun 11 | -67.5 | -10.5 | 16.3 |
| VP-08-107 | spring | 41.4366 | 35.4206 | 1210 | 1218 | 0.00   | 11. Jun 11 | -72.3 | -10.9 | 14.6 |
| VP-08-108 | creek  | 41.4391 | 35.4677 | 1421 | 1425 | 0.01   | 11. Jun 11 | -61.3 | -9.5  | 14.5 |
| VP-08-109 | spring | 41.5595 | 35.6015 | 533  | 533  | 0.00   | 11. Jun 11 | -58.1 | -9.6  | 18.3 |
| VP-08-110 | spring | 41.2065 | 36.3139 | 317  | 346  | 0.00   | 12. Jun 11 | -61.1 | -9.8  | 17.0 |
| VP-08-111 | spring | 41.1847 | 36.3380 | 562  | 583  | 0.00   | 12. Jun 11 | -61.7 | -10.0 | 17.9 |
| VP-08-112 | spring | 41.1740 | 36.3353 | 689  | 732  | 0.00   | 12. Jun 11 | -62.1 | -9.9  | 17.3 |
| VP-08-113 | spring | 41.1527 | 36.3303 | 760  | 784  | 0.00   | 12. Jun 11 | -62.1 | -9.9  | 16.9 |
| VP-08-114 | spring | 41.1175 | 36.2991 | 752  | 752  | 0.00   | 12. Jun 11 | -66.9 | -10.6 | 18.1 |
| VP-08-115 | spring | 41.1105 | 36.2864 | 832  | 840  | 0.00   | 12. Jun 11 | -67.3 | -10.5 | 16.9 |
| VP-08-116 | spring | 41.0836 | 36.2751 | 843  | 876  | 0.01   | 12. Jun 11 | -67.2 | -10.5 | 17.0 |
| VP-08-117 | spring | 41.0575 | 36.2568 | 761  | 773  | 0.01   | 12. Jun 11 | -69.5 | -10.3 | 12.8 |
| VP-08-118 | spring | 41.0304 | 36.2084 | 801  | 816  | 0.00   | 12. Jun 11 | -70.6 | -10.5 | 13.6 |
| VP-08-119 | spring | 41.0142 | 36.1778 | 743  | 754  | 0.00   | 12. Jun 11 | -70.8 | -10.6 | 13.6 |
| VP-08-120 | creek  | 41.0267 | 36.1275 | 562  | 789  | 29.47  | 12. Jun 11 | -61.2 | -9.5  | 14.4 |
| VP-08-121 | creek  | 41.0563 | 36.1057 | 485  | 765  | 298.73 | 12. Jun 11 | -61.2 | -9.3  | 13.0 |
| VP-08-122 | spring | 40.7198 | 35.4040 | 639  | 648  | 0.01   | 12. Jun 11 | -67.0 | -8.9  | 4.0  |
| VP-08-123 | spring | 40.6135 | 35.1647 | 999  | 1005 | 0.01   | 12. Jun 11 | -65.7 | -9.2  | 7.8  |
| VP-08-124 | spring | 40.6058 | 35.0760 | 1141 | 1179 | 0.03   | 12. Jun 11 | -70.1 | -10.1 | 10.8 |
| VP-08-125 | spring | 40.2200 | 34.5594 | 927  | 935  | 0.00   | 12. Jun 11 | -66.9 | -9.0  | 4.9  |
| VP-08-126 | spring | 40.1391 | 34.2175 | 663  | 670  | 0.57   | 12. Jun 11 | -58.5 | -7.1  | -1.9 |
| VP-08-127 | spring | 39.9378 | 33.8502 | 933  | 942  | 0.07   | 12. Jun 11 | -66.7 | -8.7  | 2.8  |

|          |        |         |         |      |      |      |            |       |       |      |
|----------|--------|---------|---------|------|------|------|------------|-------|-------|------|
| VP-09-01 | spring | 38.7591 | 34.9007 | 1079 | 1096 | 0.02 | 18. Sep 11 | -66.2 | -8.9  | 4.8  |
| VP-09-02 | spring | 38.8316 | 34.9435 | 1059 | 1059 | 0.00 | 18. Sep 11 | -74.0 | -10.4 | 9.1  |
| VP-09-03 | spring | 38.9634 | 35.0055 | 1164 | 1164 | 0.01 | 18. Sep 11 | -74.6 | -10.2 | 6.7  |
| VP-09-04 | spring | 39.0776 | 35.1291 | 1086 | 1087 | 0.01 | 18. Sep 11 | -69.6 | -9.1  | 3.1  |
| VP-09-05 | spring | 39.1588 | 35.2236 | 1074 | 1074 | 0.00 | 18. Sep 11 | -74.7 | -10.2 | 6.8  |
| VP-09-06 | spring | 39.3055 | 35.2849 | 1102 | 1103 | 0.00 | 18. Sep 11 | -67.1 | -9.0  | 5.1  |
| VP-09-07 | spring | 39.4271 | 35.3578 | 1231 | 1237 | 0.02 | 18. Sep 11 | -75.1 | -10.4 | 8.3  |
| VP-09-08 | spring | 39.6168 | 35.2476 | 1122 | 1122 | 0.01 | 18. Sep 11 | -67.2 | -9.5  | 8.7  |
| VP-09-09 | spring | 39.6350 | 35.2302 | 1082 | 1082 | 0.00 | 18. Sep 11 | -68.8 | -9.2  | 4.5  |
| VP-09-10 | spring | 39.7140 | 35.2236 | 1050 | 1076 | 0.14 | 18. Sep 11 | -67.1 | -8.9  | 4.0  |
| VP-09-11 | spring | 39.7629 | 35.2296 | 1042 | 1044 | 0.02 | 18. Sep 11 | -66.9 | -8.7  | 2.8  |
| VP-09-12 | spring | 39.8408 | 35.3000 | 1124 | 1133 | 0.00 | 18. Sep 11 | -67.0 | -9.2  | 6.7  |
| VP-09-13 | spring | 38.4424 | 31.3261 | 966  | 1028 | 0.03 | 24. Sep 11 | -63.8 | -10.2 | 18.0 |
| VP-09-14 | spring | 38.5894 | 30.9665 | 973  | 1041 | 0.05 | 24. Sep 11 | -70.7 | -10.7 | 14.6 |
| VP-09-15 | spring | 38.6384 | 30.8182 | 985  | 1028 | 1.06 | 24. Sep 11 | -65.7 | -9.2  | 8.0  |
| VP-09-16 | spring | 38.8052 | 30.0256 | 1198 | 1227 | 0.01 | 24. Sep 11 | -61.7 | -9.0  | 10.5 |
| VP-09-17 | spring | 38.8143 | 30.0127 | 1227 | 1260 | 0.02 | 24. Sep 11 | -60.9 | -9.1  | 11.5 |
| VP-09-19 | spring | 38.7771 | 29.8173 | 943  | 972  | 0.00 | 24. Sep 11 | -62.3 | -9.2  | 10.9 |
| VP-09-20 | spring | 38.9425 | 30.0838 | 1086 | 1117 | 0.00 | 24. Sep 11 | -62.7 | -9.1  | 9.8  |
| VP-09-21 | spring | 39.0242 | 30.1241 | 1015 | 1036 | 0.00 | 24. Sep 11 | -59.1 | -8.0  | 5.0  |
| VP-09-22 | spring | 39.5217 | 30.0564 | 884  | 923  | 0.01 | 24. Sep 11 | -64.0 | -9.0  | 8.0  |
| VP-09-23 | spring | 39.5840 | 30.1249 | 882  | 939  | 0.01 | 24. Sep 11 | -66.4 | -9.4  | 8.4  |
| VP-09-24 | spring | 39.4976 | 31.2354 | 1001 | 1027 | 0.01 | 24. Sep 11 | -66.1 | -8.9  | 4.8  |

11

12 Table A2. Isotopic lapse rates in the Pontic and Taurus Mountains based on surface water flows.

13 The Pontic lapse rates are based on a sample subset from two transects; individual lapse rates are

14 shown separately. All lapse rates were forced through the assumed near-sea level  $\delta D$  and  $\delta^{18}O$

15 values of the GNIP station Sinop (Pontic Mts.) and Adana (Taurus Mts.), hence the very low  $R^2$

16 value of  $\delta^{18}O$  lapse rate of the eastern transect through the Pontic Mountains.  $R^2$  without forcing

17 would be 0.49.

|                         | lapse rates       |       |                       |       | n  |
|-------------------------|-------------------|-------|-----------------------|-------|----|
|                         | $\delta D$ [‰/km] | $R^2$ | $\delta^{18}O$ [‰/km] | $R^2$ |    |
| Pontic Mts.             | -19               | 0.68  | -2.6                  | 0.50  | 26 |
| <i>western transect</i> | -18               | 0.74  | -2.4                  | 0.74  | 15 |
| <i>eastern transect</i> | -22               | 0.74  | -2.8                  | 0.01* | 11 |
| Taurus Mts.             | -20               | 0.71  | -2.9                  | 0.68  | 93 |