



## Dual Membrane Passive Diffusion Sampler (DMPDB) Compared to Low-Flow USEPA-Region VI Project 1 Metals

| Project Name | Analyte | DMPDB Result | Low Flow Pumping Results | units |
|--------------|---------|--------------|--------------------------|-------|
| EPA-1        | Arsenic | 7.7          | 6.5                      | µg/L  |
| EPA-1        | Arsenic | 11.7         | 7.7                      | µg/L  |
| EPA-1        | Arsenic | 2.8          | 10                       | µg/L  |
| EPA-1        | Arsenic | 14.7         | 14.5                     | µg/L  |
| EPA-1        | Arsenic | 20.8         | 18.2                     | µg/L  |
| EPA-1        | Arsenic | 18.1         | 23.4                     | µg/L  |
| EPA-1        | Arsenic | 21.1         | 29.5                     | µg/L  |
| EPA-1        | Arsenic | 31.5         | 35.8                     | µg/L  |
| EPA-1        | Arsenic | 33.7         | 37.3                     | µg/L  |
| EPA-1        | Arsenic | 34.6         | 39.4                     | µg/L  |
| EPA-1        | Barium  | 26.6         | 33.7                     | µg/L  |
| EPA-1        | Barium  | 39.7         | 43.7                     | µg/L  |
| EPA-1        | Barium  | 61.2         | 44.8                     | µg/L  |
| EPA-1        | Barium  | 41.4         | 45.1                     | µg/L  |
| EPA-1        | Barium  | 52.2         | 50                       | µg/L  |
| EPA-1        | Barium  | 45.9         | 53.4                     | µg/L  |
| EPA-1        | Barium  | 49.6         | 56                       | µg/L  |
| EPA-1        | Barium  | 83.4         | 58.4                     | µg/L  |
| EPA-1        | Barium  | 63           | 62.3                     | µg/L  |
| EPA-1        | Barium  | 68.9         | 67.8                     | µg/L  |
| EPA-1        | Barium  | 101          | 97.3                     | µg/L  |
| EPA-1        | Barium  | 93.7         | 102                      | µg/L  |
| EPA-1        | Barium  | 91.3         | 108                      | µg/L  |
| EPA-1        | Barium  | 154          | 143                      | µg/L  |
| EPA-1        | Barium  | 184          | 221                      | µg/L  |
| EPA-1        | Barium  | 362          | 266                      | µg/L  |
| EPA-1        | Barium  | 262          | 300                      | µg/L  |
| EPA-1        | Barium  | 723          | 692                      | µg/L  |
| EPA-1        | Barium  | 736          | 692                      | µg/L  |
| EPA-1        | Barium  | 668          | 717                      | µg/L  |
| EPA-1        | Barium  | 693          | 881                      | µg/L  |
| EPA-1        | Barium  | 659          | 931                      | µg/L  |



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| EPA-1        | Barium  | 1470         | 1190                     | µg/L  |
| EPA-1        | Barium  | 1340         | 1270                     | µg/L  |
| EPA-1        | Barium  | 925          | 1330                     | µg/L  |
| EPA-1        | Barium  | 312          | 1620                     | µg/L  |
| EPA-1        | Barium  | 2980         | 3180                     | µg/L  |
| EPA-1        | Barium  | 4130         | 3720                     | µg/L  |
| EPA-1        | Barium  | 2880         | 3850                     | µg/L  |
| EPA-1        | Barium  | 12700        | 12800                    | µg/L  |
| EPA-1        | Barium  | 13600        | 14900                    | µg/L  |
| EPA-1        | Barium  | 11100        | 15900                    | µg/L  |
| EPA-1        | Barium  | 17000        | 19500                    | µg/L  |
| EPA-1        | Barium  | 18700        | 19500                    | µg/L  |
| EPA-1        | Barium  | 28700        | 24000                    | µg/L  |
| EPA-1        | Calcium | 19800        | 21300                    | µg/L  |
| EPA-1        | Calcium | 19700        | 23500                    | µg/L  |
| EPA-1        | Calcium | 36900        | 34200                    | µg/L  |
| EPA-1        | Calcium | 33600        | 34400                    | µg/L  |
| EPA-1        | Calcium | 41900        | 35400                    | µg/L  |
| EPA-1        | Calcium | 39700        | 37500                    | µg/L  |
| EPA-1        | Calcium | 32900        | 39200                    | µg/L  |
| EPA-1        | Calcium | 44100        | 41000                    | µg/L  |
| EPA-1        | Calcium | 40000        | 41100                    | µg/L  |
| EPA-1        | Calcium | 25100        | 45100                    | µg/L  |
| EPA-1        | Calcium | 16300        | 49700                    | µg/L  |
| EPA-1        | Calcium | 54200        | 58700                    | µg/L  |
| EPA-1        | Calcium | 82500        | 68300                    | µg/L  |
| EPA-1        | Calcium | 26100        | 68700                    | µg/L  |
| EPA-1        | Calcium | 71200        | 74600                    | µg/L  |
| EPA-1        | Calcium | 68000        | 75000                    | µg/L  |
| EPA-1        | Calcium | 73300        | 77600                    | µg/L  |
| EPA-1        | Calcium | 82200        | 78400                    | µg/L  |
| EPA-1        | Calcium | 96300        | 82700                    | µg/L  |
| EPA-1        | Calcium | 86700        | 88400                    | µg/L  |
| EPA-1        | Calcium | 90200        | 90900                    | µg/L  |



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|--------------|----------|--------------|--------------------------|-------|
| EPA-1        | Calcium  | 100000       | 91400                    | µg/L  |
| EPA-1        | Calcium  | 122000       | 96600                    | µg/L  |
| EPA-1        | Calcium  | 89900        | 98400                    | µg/L  |
| EPA-1        | Calcium  | 102000       | 104000                   | µg/L  |
| EPA-1        | Calcium  | 90300        | 111000                   | µg/L  |
| EPA-1        | Calcium  | 114000       | 118000                   | µg/L  |
| EPA-1        | Calcium  | 139000       | 150000                   | µg/L  |
| EPA-1        | Calcium  | 177000       | 155000                   | µg/L  |
| EPA-1        | Calcium  | 168000       | 198000                   | µg/L  |
| EPA-1        | Calcium  | 218000       | 226000                   | µg/L  |
| EPA-1        | Calcium  | 226000       | 229000                   | µg/L  |
| EPA-1        | Calcium  | 226000       | 236000                   | µg/L  |
| EPA-1        | Calcium  | 285000       | 246000                   | µg/L  |
| EPA-1        | Calcium  | 393000       | 318000                   | µg/L  |
| EPA-1        | Chromium | 177          | 31                       | µg/L  |
| EPA-1        | Chromium | 54.1         | 53.5                     | µg/L  |
| EPA-1        | Chromium | 53           | 59.4                     | µg/L  |
| EPA-1        | Chromium | 102          | 112                      | µg/L  |
| EPA-1        | Chromium | 117          | 113                      | µg/L  |
| EPA-1        | Chromium | 157          | 212                      | µg/L  |
| EPA-1        | Chromium | 363          | 342                      | µg/L  |
| EPA-1        | Chromium | 1540         | 370                      | µg/L  |
| EPA-1        | Chromium | 990          | 933                      | µg/L  |
| EPA-1        | Chromium | 3660         | 1560                     | µg/L  |
| EPA-1        | Chromium | 2150         | 2270                     | µg/L  |
| EPA-1        | Chromium | 8340         | 5280                     | µg/L  |
| EPA-1        | Cobalt   | 25.1         | 21.5                     | µg/L  |
| EPA-1        | Cobalt   | 32.9         | 30.7                     | µg/L  |
| EPA-1        | Cobalt   | 46           | 38.2                     | µg/L  |
| EPA-1        | Cobalt   | 176          | 95.7                     | µg/L  |
| EPA-1        | Lead     | 4            | 3.5                      | µg/L  |
| EPA-1        | Lead     | 6.2          | 4.7                      | µg/L  |
| EPA-1        | Lead     | 15           | 7.6                      | µg/L  |



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|--------------|-----------|--------------|--------------------------|-------|
| EPA-1        | Lead      | 14.3         | 7.7                      | µg/L  |
| EPA-1        | Lead      | 2.8          | 26.9                     | µg/L  |
| EPA-1        | Magnesium | 2830         | 3000                     | µg/L  |
| EPA-1        | Magnesium | 2870         | 3250                     | µg/L  |
| EPA-1        | Magnesium | 5690         | 5970                     | µg/L  |
| EPA-1        | Magnesium | 7590         | 6520                     | µg/L  |
| EPA-1        | Magnesium | 6870         | 6660                     | µg/L  |
| EPA-1        | Magnesium | 7120         | 6740                     | µg/L  |
| EPA-1        | Magnesium | 7000         | 7350                     | µg/L  |
| EPA-1        | Magnesium | 7260         | 7900                     | µg/L  |
| EPA-1        | Magnesium | 10400        | 9640                     | µg/L  |
| EPA-1        | Magnesium | 10900        | 10200                    | µg/L  |
| EPA-1        | Magnesium | 10500        | 10700                    | µg/L  |
| EPA-1        | Magnesium | 10700        | 10800                    | µg/L  |
| EPA-1        | Magnesium | 11500        | 10800                    | µg/L  |
| EPA-1        | Magnesium | 9890         | 10900                    | µg/L  |
| EPA-1        | Magnesium | 10300        | 11200                    | µg/L  |
| EPA-1        | Magnesium | 10600        | 11200                    | µg/L  |
| EPA-1        | Magnesium | 11500        | 11900                    | µg/L  |
| EPA-1        | Magnesium | 10900        | 12700                    | µg/L  |
| EPA-1        | Magnesium | 15600        | 13200                    | µg/L  |
| EPA-1        | Magnesium | 12800        | 13500                    | µg/L  |
| EPA-1        | Magnesium | 12900        | 13800                    | µg/L  |
| EPA-1        | Magnesium | 13600        | 13900                    | µg/L  |
| EPA-1        | Magnesium | 14500        | 14700                    | µg/L  |
| EPA-1        | Magnesium | 15000        | 16200                    | µg/L  |
| EPA-1        | Magnesium | 16000        | 16400                    | µg/L  |
| EPA-1        | Magnesium | 17200        | 16800                    | µg/L  |
| EPA-1        | Magnesium | 14900        | 17800                    | µg/L  |
| EPA-1        | Magnesium | 18800        | 17900                    | µg/L  |
| EPA-1        | Magnesium | 20600        | 20600                    | µg/L  |
| EPA-1        | Magnesium | 25500        | 24800                    | µg/L  |
| EPA-1        | Magnesium | 27200        | 24900                    | µg/L  |



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| Project Name | Analyte   | DMPDB Result | Low Flow Pumping Results | units |
|--------------|-----------|--------------|--------------------------|-------|
| EPA-1        | Magnesium | 26700        | 26300                    | µg/L  |
| EPA-1        | Magnesium | 25000        | 27100                    | µg/L  |
| EPA-1        | Magnesium | 27600        | 27900                    | µg/L  |
| EPA-1        | Magnesium | 29900        | 32800                    | µg/L  |
| EPA-1        | Manganese | 18.1         | 12                       | µg/L  |
| EPA-1        | Manganese | 19.6         | 13.3                     | µg/L  |
| EPA-1        | Manganese | 41           | 36.3                     | µg/L  |
| EPA-1        | Manganese | 68.4         | 57.6                     | µg/L  |
| EPA-1        | Manganese | 37.8         | 150                      | µg/L  |
| EPA-1        | Manganese | 131          | 494                      | µg/L  |
| EPA-1        | Manganese | 458          | 498                      | µg/L  |
| EPA-1        | Manganese | 463          | 507                      | µg/L  |
| EPA-1        | Manganese | 536          | 608                      | µg/L  |
| EPA-1        | Manganese | 557          | 614                      | µg/L  |
| EPA-1        | Manganese | 688          | 664                      | µg/L  |
| EPA-1        | Manganese | 740          | 760                      | µg/L  |
| EPA-1        | Manganese | 1030         | 791                      | µg/L  |
| EPA-1        | Manganese | 944          | 855                      | µg/L  |
| EPA-1        | Manganese | 1080         | 860                      | µg/L  |
| EPA-1        | Manganese | 987          | 914                      | µg/L  |
| EPA-1        | Manganese | 901          | 934                      | µg/L  |
| EPA-1        | Manganese | 1040         | 1060                     | µg/L  |
| EPA-1        | Manganese | 892          | 1160                     | µg/L  |
| EPA-1        | Manganese | 947          | 1740                     | µg/L  |
| EPA-1        | Manganese | 2170         | 2130                     | µg/L  |
| EPA-1        | Manganese | 2070         | 3050                     | µg/L  |
| EPA-1        | Manganese | 2900         | 3380                     | µg/L  |
| EPA-1        | Manganese | 4600         | 4800                     | µg/L  |
| EPA-1        | Manganese | 6110         | 5620                     | µg/L  |
| EPA-1        | Manganese | 23800        | 7030                     | µg/L  |
| EPA-1        | Manganese | 12300        | 7820                     | µg/L  |
| EPA-1        | Manganese | 9430         | 10300                    | µg/L  |
| EPA-1        | Manganese | 13600        | 13400                    | µg/L  |



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| Project Name | Analyte   | DMPDB Result | Low Flow Pumping Results | units |
|--------------|-----------|--------------|--------------------------|-------|
| EPA-1        | Manganese | 15700        | 15100                    | µg/L  |
| EPA-1        | Manganese | 7500         | 25700                    | µg/L  |
| EPA-1        | Nickel    | 25.6         | 28.4                     | µg/L  |
| EPA-1        | Nickel    | 32.1         | 37                       | µg/L  |
| EPA-1        | Nickel    | 55.3         | 48.6                     | µg/L  |
| EPA-1        | Nickel    | 50.5         | 53.3                     | µg/L  |
| EPA-1        | Nickel    | 42.1         | 56.6                     | µg/L  |
| EPA-1        | Nickel    | 163          | 72.6                     | µg/L  |
| EPA-1        | Nickel    | 36.4         | 78.5                     | µg/L  |
| EPA-1        | Nickel    | 127          | 132                      | µg/L  |
| EPA-1        | Nickel    | 176          | 146                      | µg/L  |
| EPA-1        | Selenium  | 7.7          | 4.4                      | µg/L  |
| EPA-1        | Selenium  | 4.9          | 4.8                      | µg/L  |
| EPA-1        | Selenium  | 4.6          | 5.1                      | µg/L  |
| EPA-1        | Selenium  | 5.4          | 5.1                      | µg/L  |
| EPA-1        | Selenium  | 7.4          | 5.8                      | µg/L  |
| EPA-1        | Selenium  | 6.2          | 6.3                      | µg/L  |
| EPA-1        | Selenium  | 6.9          | 6.4                      | µg/L  |
| EPA-1        | Selenium  | 8.1          | 7.4                      | µg/L  |
| EPA-1        | Selenium  | 6.4          | 7.6                      | µg/L  |
| EPA-1        | Selenium  | 9.2          | 9                        | µg/L  |
| EPA-1        | Selenium  | 10.1         | 10.8                     | µg/L  |
| EPA-1        | Selenium  | 17           | 13.4                     | µg/L  |
| EPA-1        | Sodium    | 43600        | 42700                    | µg/L  |
| EPA-1        | Sodium    | 46200        | 43500                    | µg/L  |
| EPA-1        | Sodium    | 45200        | 44500                    | µg/L  |
| EPA-1        | Sodium    | 43100        | 46200                    | µg/L  |
| EPA-1        | Sodium    | 51100        | 49100                    | µg/L  |
| EPA-1        | Sodium    | 49400        | 49600                    | µg/L  |
| EPA-1        | Sodium    | 47200        | 51000                    | µg/L  |
| EPA-1        | Sodium    | 48700        | 51400                    | µg/L  |
| EPA-1        | Sodium    | 50600        | 52200                    | µg/L  |
| EPA-1        | Sodium    | 49900        | 52800                    | µg/L  |



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|--------------|---------|--------------|--------------------------|-------|
| EPA-1        | Sodium  | 57800        | 52900                    | µg/L  |
| EPA-1        | Sodium  | 49000        | 53400                    | µg/L  |
| EPA-1        | Sodium  | 48400        | 53900                    | µg/L  |
| EPA-1        | Sodium  | 58600        | 54900                    | µg/L  |
| EPA-1        | Sodium  | 54000        | 56000                    | µg/L  |
| EPA-1        | Sodium  | 56700        | 56100                    | µg/L  |
| EPA-1        | Sodium  | 50300        | 56300                    | µg/L  |
| EPA-1        | Sodium  | 56500        | 56500                    | µg/L  |
| EPA-1        | Sodium  | 54700        | 57600                    | µg/L  |
| EPA-1        | Sodium  | 59400        | 58000                    | µg/L  |
| EPA-1        | Sodium  | 59000        | 58200                    | µg/L  |
| EPA-1        | Sodium  | 68700        | 59300                    | µg/L  |
| EPA-1        | Sodium  | 58800        | 64800                    | µg/L  |
| EPA-1        | Sodium  | 66800        | 69000                    | µg/L  |
| EPA-1        | Sodium  | 60900        | 69200                    | µg/L  |
| EPA-1        | Sodium  | 103000       | 74500                    | µg/L  |
| EPA-1        | Sodium  | 80000        | 81500                    | µg/L  |
| EPA-1        | Sodium  | 82500        | 82800                    | µg/L  |
| EPA-1        | Sodium  | 103000       | 88100                    | µg/L  |
| EPA-1        | Sodium  | 82700        | 89500                    | µg/L  |
| EPA-1        | Sodium  | 96900        | 92600                    | µg/L  |
| EPA-1        | Sodium  | 101000       | 106000                   | µg/L  |
| EPA-1        | Sodium  | 110000       | 110000                   | µg/L  |
| EPA-1        | Sodium  | 106000       | 124000                   | µg/L  |
| EPA-1        | Sodium  | 168000       | 133000                   | µg/L  |
| EPA-1        | Sodium  | 133000       | 143000                   | µg/L  |

\*Data with Lab Qualifiers (Below Reporting Limit) has been removed