

| | Sample Collection Date | Flow (cu.ft./sec.) | Suspended solids (mg/L) | Sulfate (mg/L) | Total Hardness (mg/L) | Total Phosphorus (mg/L) | TOC (mg/L) | Ammonia-N (mg/L) |
|----------------|------------------------|--------------------|-------------------------|----------------|-----------------------|-------------------------|------------|------------------|
| Pittsburgh | 07/11/12 | 3,400 | 5 | 104 | 106 | 0.02 | 2 | 0.049 |
| MP -7.4 | 09/05/12 | 6,900 | 5 | 75.5 | 110 | <0.01 | 2 | <0.03 |
| (Allegheny) | 11/14/12 | 17,800 | 8 | 45.5 | 81.5 | N/A | 3.4 | 0.055 |
| S. Pittsburgh | 07/11/12 | 1,600 | <5 | 156 | 126 | <0.01 | 2.7 | 0.044 |
| MP -4.5 | 09/05/12 | 2,100 | <5 | 138 | 126 | <0.01 | 2.6 | <0.03 |
| (Monongahela) | 11/14/12 | 29,300 | 29 | 69 | 81.5 | N/A | 5.2 | 0.051 |
| Beaver Falls | 07/11/12 | 1,000 | 14 | 74.2 | 136 | <0.01 | <0.5 | <0.03 |
| MP -5.3 | 09/05/12 | 1,200 | <5 | 61 | 147 | 0.1 | 4.1 | <0.03 |
| (Beaver) | 11/14/12 | 2,100 | <5 | 69 | 151 | N/A | 5.5 | 0.071 |
| New Cumberland | 07/23/12 | No | 7 | 122 | 134 | 0.028 | 2.5 | 0.059 |
| MP 54.4 | 09/19/12 | Flow | 6 | 100 | 135 | 0.038 | 2.6 | <0.03 |
| | 11/20/12 | Available | <5 | 59.2 | 84.6 | <0.01 | 2.5 | 0.056 |
| Pike Island | 07/23/12 | 14,000 | 6 | 130 | 140 | 0.028 | 2.6 | 0.052 |
| MP 84.2 | 09/19/12 | 12,500 | <5 | 112 | 145 | 0.028 | 2.7 | <0.03 |
| | 11/20/12 | 22,100 | 6 | 68 | 89.7 | <0.01 | 2.5 | 0.051 |
| Hannibal | 07/24/12 | N/A | <5 | 144 | 139 | 0.014 | 2.7 | 0.036 |
| MP 126.4 | 09/27/12 | 9,300 | 7 | 120 | 150 | 0.028 | 2.6 | 0.045 |
| | 11/19/12 | 20,600 | <5 | 67 | 93.3 | <0.01 | 3 | 0.047 |
| Willow Island | 07/24/12 | N/A | 6 | 136 | 134 | 0.01 | 2.5 | <0.03 |
| MP 161.8 | 09/27/12 | 9,500 | <5 | 116 | 141 | 0.014 | 2.8 | 0.074 |
| | 11/19/12 | 20,900 | 5 | 59.5 | 89.7 | <0.01 | 3.6 | 0.036 |
| Marietta | 07/24/12 | N/A | 15 | 181 | 242 | 0.061 | 3.6 | 0.079 |
| MP -0.8 | 09/27/12 | 500 | 11 | 136 | 246 | 0.036 | 3.7 | 0.064 |
| (Muskingum) | 11/19/12 | 6,200 | 13 | 117 | 241 | 0.014 | 3.9 | <0.03 |
| Belleville | 07/18/12 | 12,000 | <5 | 127 | 145 | 0.036 | 2.5 | 0.049 |
| MP 203.9 | 09/17/12 | 8,100 | <5 | 106 | 145 | 0.014 | 2.8 | <0.03 |
| | 11/13/12 | 42,300 | <5 | 59.2 | 104 | 0.03 | 4.3 | 0.074 |

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|----------------|----------|-----------|-----|------|------|-------|-----|-------|
| Winfield | 07/26/12 | No | 14 | 82 | 107 | 0.01 | 2.5 | <0.03 |
| MP -31.1 | 09/25/12 | Flow | <5 | 43.2 | 89.4 | 0.016 | 2.1 | <0.03 |
| (Kanawha) | 11/06/12 | Available | 7 | 63.8 | 82.4 | <0.01 | 2 | <0.03 |
| R.C. Byrd | 07/18/12 | 17,200 | <5 | 100 | 128 | 0.034 | 2.2 | <0.03 |
| MP 279.2 | 09/17/12 | 12,100 | 13 | 104 | 141 | <0.01 | 2.6 | <0.03 |
| | 11/13/12 | 54,900 | 5 | 57.8 | 101 | 0.03 | 3.5 | 0.051 |
| Louisa | 07/26/12 | 3,900 | 338 | 166 | 294 | 0.065 | 3.6 | <0.03 |
| MP -20.3 | 09/25/12 | 3,500 | 13 | 142 | 215 | <0.01 | 2.3 | <0.03 |
| (Big Sandy) | 11/06/12 | 5,400 | 25 | 188 | 216 | <0.01 | 2 | <0.03 |
| Greenup | 07/09/12 | 16,500 | <5 | 120 | 127 | 0.015 | 2.2 | 0.07 |
| MP 341.0 | 09/24/12 | 30,400 | 5 | 120 | 144 | <0.01 | 2.4 | 0.041 |
| | 11/08/12 | 91,500 | 33 | 74.2 | 119 | 0.059 | 3.4 | 0.034 |
| Lucasville | 07/26/12 | 600 | 38 | 176 | 181 | 0.29 | 5.7 | <0.03 |
| MP -15.0 | 09/25/12 | 1,100 | 34 | 144 | 295 | 0.5 | 5.7 | <0.03 |
| (Scioto) | 11/06/12 | 2,900 | 60 | 74.5 | 209 | 0.26 | 8.8 | 0.15 |
| Meldahl | 07/09/12 | 18,900 | <5 | 102 | 127 | 0.031 | 2.5 | 0.12 |
| MP 436.2 | 09/24/12 | 33,600 | 5 | 138 | 170 | 0.028 | 2.8 | 0.04 |
| | 11/08/12 | 101,200 | 26 | 76 | 129 | 0.042 | 3.2 | <0.03 |
| Newtown | 07/03/12 | 200 | 126 | 41.5 | 251 | 0.41 | 3.8 | <0.03 |
| MP -7.5 | 09/06/12 | 200 | 33 | 37.5 | 177 | 0.26 | 4.4 | <0.03 |
| (Little Miami) | 11/21/12 | 100 | 9 | 52.2 | 254 | 0.28 | 3.7 | <0.03 |
| Covington | 07/03/12 | 100 | 18 | 40 | 145 | 0.034 | 3.6 | <0.03 |
| MP -4.7 | 09/11/12 | 600 | 15 | 33.8 | 125 | 0.076 | 4.3 | 0.066 |
| (Licking) | 11/21/12 | 800 | 6 | 46.8 | 112 | 0.02 | 3.1 | <0.03 |
| Elizabethtown | 07/03/12 | No | 23 | 75.8 | 271 | 0.1 | 3.7 | <0.03 |
| MP -5.2 | 09/07/12 | Flow | 29 | 71 | 290 | 0.22 | 3.4 | <0.03 |
| (Great Miami) | 11/21/12 | Available | 15 | 55.5 | 275 | 0.14 | 3.5 | <0.03 |
| Markland | 07/17/12 | 20,700 | 6 | 96 | 143 | 0.042 | 3 | 0.049 |
| MP 531.5 | 09/20/12 | 28,200 | <5 | 116 | 173 | 0.024 | 2.7 | <0.03 |
| | 11/08/12 | 109,300 | 23 | 94.5 | 132 | 0.055 | 3.6 | <0.03 |
| McAlpine | 07/17/12 | 23,000 | <5 | 100 | 144 | 0.029 | 2.9 | <0.03 |
| MP 606.8 | 09/20/12 | 57,900 | 5 | 110 | 165 | 0.032 | 2.7 | <0.03 |
| | 11/08/12 | 117,000 | 42 | 95.2 | 143 | 0.051 | 3.4 | <0.03 |
| Cannelton | 07/10/12 | 21,400 | <5 | 79.5 | 128 | 0.031 | 2.8 | 0.14 |
| MP 720.7 | 09/12/12 | 33,800 | 6 | 84 | 157 | 0.018 | 2.9 | <0.03 |

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| | 11/14/12 | 67,900 | 10 | 102 | 145 | <0.01 | 3.6 | <0.03 |
| Sebree | 07/12/12 | No | 9 | 106 | 182 | 0.034 | 2.8 | <0.03 |
| MP -41.3 | 09/05/12 | Flow | <5 | 128 | 203 | <0.01 | 2.9 | 0.048 |
| (Green) | 11/01/12 | Available | 15 | 33.7 | 146 | 0.018 | 2.7 | 0.22 |
| Newburgh | 07/12/12 | 25,400 | 7 | 77 | 133 | 0.022 | 2.7 | <0.03 |
| MP 776.1 | 09/05/12 | 21,500 | 5 | 96 | 149 | 0.042 | 2.9 | 0.11 |
| | 11/01/12 | 85,000 | 30 | 134 | 191 | 0.053 | 2.7 | <0.03 |
| J.T. Myers | 07/12/12 | 25,300 | <5 | 90.5 | 137 | 0.036 | 2.8 | 0.11 |
| MP 846.0 | 09/05/12 | 27,400 | 5 | 89.5 | 146 | <0.01 | 2.7 | <0.03 |
| | 11/01/12 | 71,400 | 31 | 120 | 190 | 0.049 | 2.6 | <0.03 |
| Route 62 Bridge | 07/12/12 | No | 31 | 117 | 244 | 0.056 | 4.1 | <0.03 |
| MP -28.5 | 09/05/12 | Flow | 33 | 89 | 203 | <0.01 | 4.3 | 0.11 |
| (Wabash) | 11/01/12 | Available | 98 | 75.8 | 278 | 0.13 | 4.7 | <0.03 |
| Smithland | 07/11/12 | 26,900 | <5 | 77.8 | 157 | 0.024 | 2.9 | 0.058 |
| MP 918.5 | 09/13/12 | 51,200 | <5 | 93 | 160 | 0.034 | 3.1 | <0.03 |
| | 11/15/12 | 89,400 | 14 | 122 | 175 | 0.012 | 3 | <0.03 |
| Pinkneyville | 07/12/12 | 6,000 | 12 | 23.4 | 69.8 | 2.7 | 2.5 | 0.031 |
| MP -16.0 | 09/12/12 | 8,000 | 37 | 22.2 | 86.2 | 0.086 | 2.5 | 0.35 |
| (Cumberland) | 11/14/12 | 17,000 | 10 | 18.3 | 85.7 | 0.014 | 2.5 | <0.03 |
| Paducah | 07/12/12 | 18,000 | <5 | 17.7 | 56.5 | 0.073 | 2.1 | 0.047 |
| MP -6.0 | 09/12/12 | 18,000 | <5 | 14.7 | 66.3 | 0.049 | 2.3 | 0.035 |
| (Tennessee) | 11/14/12 | 32,000 | 7 | 15.6 | 75.9 | <0.01 | 2.5 | <0.03 |
| Lock & Dam 52 | 07/11/12 | No | 8 | 45 | 98.3 | 0.051 | 2.4 | <0.03 |
| MP 938.9 | 09/12/12 | Flow | 8 | 89.5 | 154 | 0.038 | 3 | <0.03 |
| | 11/15/12 | Available | 19 | 110 | 178 | 0.012 | 2.9 | <0.03 |

| | Nitrate/Nitrite-N (mg/L) | TKN (mg/L) | Chlorides (mg/L) | Phenolics (ug/L) | Cyanide (mg/L) |
|--|--------------------------|------------|------------------|------------------|----------------|
| | 0.4 | 0.21 | 32.5 | 5.9 | |
| | 0.41 | <0.1 | 34.1 | 0.0077 | |
| | 0.64 | <0.1 | 19.3 | N/A | <0.005 |
| | 0.86 | 0.37 | 43.3 | 7.2 | |
| | 1 | <0.1 | 35 | 0.0061 | |
| | 0.63 | <0.1 | 14.3 | N/A | <0.005 |
| | 1.2 | 0.27 | 54.6 | 6.3 | |
| | 2 | 0.14 | 68.9 | 0.007 | |
| | 1.8 | 0.2 | 52.1 | N/A | <0.005 |
| | 1.1 | 0.21 | 49.6 | <0.01 | |
| | 1 | 0.12 | 47 | <0.01 | |
| | 0.71 | 0.12 | 20.5 | <0.01 | |
| | 0.95 | 0.38 | 48.7 | <0.01 | |
| | 1.2 | <0.1 | 48.9 | <0.01 | |
| | 0.75 | <0.1 | 20 | <0.01 | |
| | 0.97 | 0.33 | 54.2 | <0.01 | |
| | 1.1 | <0.1 | 59.8 | <0.01 | |
| | 0.9 | <0.1 | 28.3 | <0.01 | |
| | 0.87 | 0.2 | 52 | <0.01 | |
| | 1.1 | <0.1 | 54.8 | <0.01 | |
| | 0.92 | 0.12 | 23.2 | <0.01 | |
| | 0.5 | 0.5 | 61.4 | <0.01 | |
| | 0.57 | 0.15 | 71.9 | <0.01 | |
| | 1.7 | 0.43 | 45.1 | <0.01 | |
| | 0.8 | 0.32 | 60.4 | <0.01 | |
| | 0.78 | 0.2 | 58.4 | <0.01 | |
| | 1.1 | <0.1 | 24 | <0.01 | |

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| 0.33 | 0.19 | 16.3 | 7 |
| 0.49 | <0.1 | 11.3 | <0.01 |
| 0.76 | <0.1 | 10.8 | <0.01 |
| 0.47 | 0.4 | 34.9 | <0.01 |
| 0.51 | <0.1 | 45 | <0.01 |
| 0.95 | <0.1 | 23.3 | <0.01 |
| 4.7 | 0.13 | 13.5 | 8.5 |
| 0.67 | <0.1 | 16.9 | <0.01 |
| 1.8 | <0.1 | 19.2 | <0.01 |
| 0.5 | 0.42 | 34.4 | 5.4 |
| 0.51 | <0.1 | 38 | <0.01 |
| 0.94 | 0.14 | 25.3 | <0.01 |
| 0.83 | 1.2 | 79 | 5.9 |
| 2.7 | 0.39 | 79.8 | <0.01 |
| 3.6 | 0.48 | 38.8 | <0.01 |
| 0.38 | 0.38 | 32.6 | 7.7 |
| 0.53 | <0.1 | 50.5 | <0.01 |
| 1 | <0.1 | 33.1 | <0.01 |
| 1.8 | 1.1 | 80.3 | <0.01 |
| 1.4 | 0.65 | 68.2 | 0.0068 |
| 1.8 | <0.1 | 79.2 | <0.01 |
| <0.05 | 1.4 | 13 | <0.01 |
| 0.29 | 0.48 | 12.9 | 0.006 |
| <0.05 | <0.1 | 9.7 | <0.01 |
| 0.51 | 1.5 | 87.7 | <0.01 |
| 1.9 | 0.43 | 92.5 | 0.0055 |
| 1.7 | 0.2 | 50.8 | <0.01 |
| 0.6 | 0.47 | 34.7 | <0.01 |
| 0.68 | 0.22 | 44.5 | <0.01 |
| 1 | 0.12 | 34.5 | <0.01 |
| 0.75 | 0.33 | 33.7 | <0.01 |
| 0.82 | 0.15 | 44.9 | <0.01 |
| 1.1 | <0.1 | 41 | <0.01 |
| 0.71 | 0.41 | 27.5 | 5.8 |
| 1 | <0.1 | 43.1 | <0.01 |

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|-------|------|------|--------|
| 1.1 | 0.14 | 35.8 | <0.01 |
| 0.72 | 0.36 | 15.4 | <0.01 |
| 0.59 | 0.22 | 19.9 | 0.0059 |
| 2.1 | 0.21 | 11.1 | <0.01 |
| 0.73 | 0.26 | 26.2 | 6.1 |
| 0.81 | 0.46 | 40.8 | <0.01 |
| 1.1 | <0.1 | 51.3 | <0.01 |
| 0.71 | 0.48 | 27.7 | 6.3 |
| 0.58 | 0.17 | 40.2 | 0.0051 |
| 1.1 | 0.12 | 46 | <0.01 |
| <0.05 | 0.71 | 64.8 | 6.1 |
| <0.05 | 8.8 | 65.2 | <0.01 |
| 2.4 | <0.1 | 47.1 | <0.01 |
| 0.48 | 0.16 | 32.9 | 6 |
| 0.71 | 0.23 | 38.3 | 0.0066 |
| 1.1 | 0.11 | 48.5 | <0.01 |
| <0.05 | 0.49 | 10.6 | 6.1 |
| 0.14 | <0.1 | 9.9 | <0.01 |
| 0.27 | <0.1 | 9.8 | <0.01 |
| 0.12 | 0.24 | 12.9 | 6.5 |
| 0.17 | <0.1 | 13.8 | <0.01 |
| 0.31 | <0.1 | 14.6 | <0.01 |
| 0.23 | 0.16 | 19.1 | 6.7 |
| 0.57 | <0.1 | 38.3 | 0.0053 |
| 1.2 | <0.1 | 45.7 | <0.01 |