

**CITY OF LANCASTER, OHIO
UPPER HOCKING RIVER
WATER QUALITY MONITORING AND QUAL2K MODELING**

**Appendix H
Time of Travel Data**

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**Table H.1
Time of Travel Data Summary**

| | | Total Time of Travel (hrs) | Total Time of Travel (d) | Length Between Sites (mi) | Velocity (ft/s) | Velocity (m/s) |
|----------------------|-----------------|----------------------------|--------------------------|---------------------------|-----------------|----------------|
| Dye Released as Site | 1 | | | | | |
| Time of Release | 8/24/2005 15:20 | | | | | |
| Traveled to Site | 2 | 3.42 | 0.143 | 0.4 | 0.17 | 0.052 |
| Time of Peak Conc. | 8/24/2005 18:45 | | | | | |

| | | Total Time of Travel (hrs) | Total Time of Travel (d) | Length Between Sites (mi) | Velocity (ft/s) | Velocity (m/s) |
|----------------------|-----------------|----------------------------|--------------------------|---------------------------|-----------------|----------------|
| Dye Released as Site | 2 | | | | | |
| Time of Release | 8/24/2005 13:15 | | | | | |
| Traveled to Site | 4 | 5 | 0.208 | 1 | 0.29 | 0.088 |
| Time of Peak Conc. | 8/24/2005 18:15 | | | | | |

| | | Total Time of Travel (hrs) | Total Time of Travel (d) | Length Between Sites (mi) | Velocity (ft/s) | Velocity (m/s) |
|----------------------|-----------------|----------------------------|--------------------------|---------------------------|-----------------|----------------|
| Dye Released as Site | 4 | | | | | |
| Time of Release | 8/24/2005 13:45 | | | | | |
| Traveled to Site | 6 | 16.42 | 0.684 | 1.55 | 0.14 | 0.043 |
| Time of Peak Conc. | 8/25/2005 6:10 | | | | | |
| Traveled to Site | 8 | 32.5 | 1.354 | 3.95 | 0.18 | 0.055 |
| Time of Peak Conc. | 8/25/2005 22:15 | | | | | |

| | | Total Time of Travel (hrs) | Total Time of Travel (d) | Length Between Sites (mi) | Velocity (ft/s) | Velocity (m/s) |
|----------------------|-----------------|----------------------------|--------------------------|---------------------------|-----------------|----------------|
| Dye Released as Site | 6 | | | | | |
| Time of Release | 8/24/2005 14:10 | | | | | |
| Traveled to Site | 8 | 15.08 | 0.628 | 2.4 | 0.23 | 0.070 |
| Time of Peak Conc. | 8/25/2005 5:15 | | | | | |

Figure H.1
Time of Travel Study
Curve at Site 2, Dye Dumped at Site 1

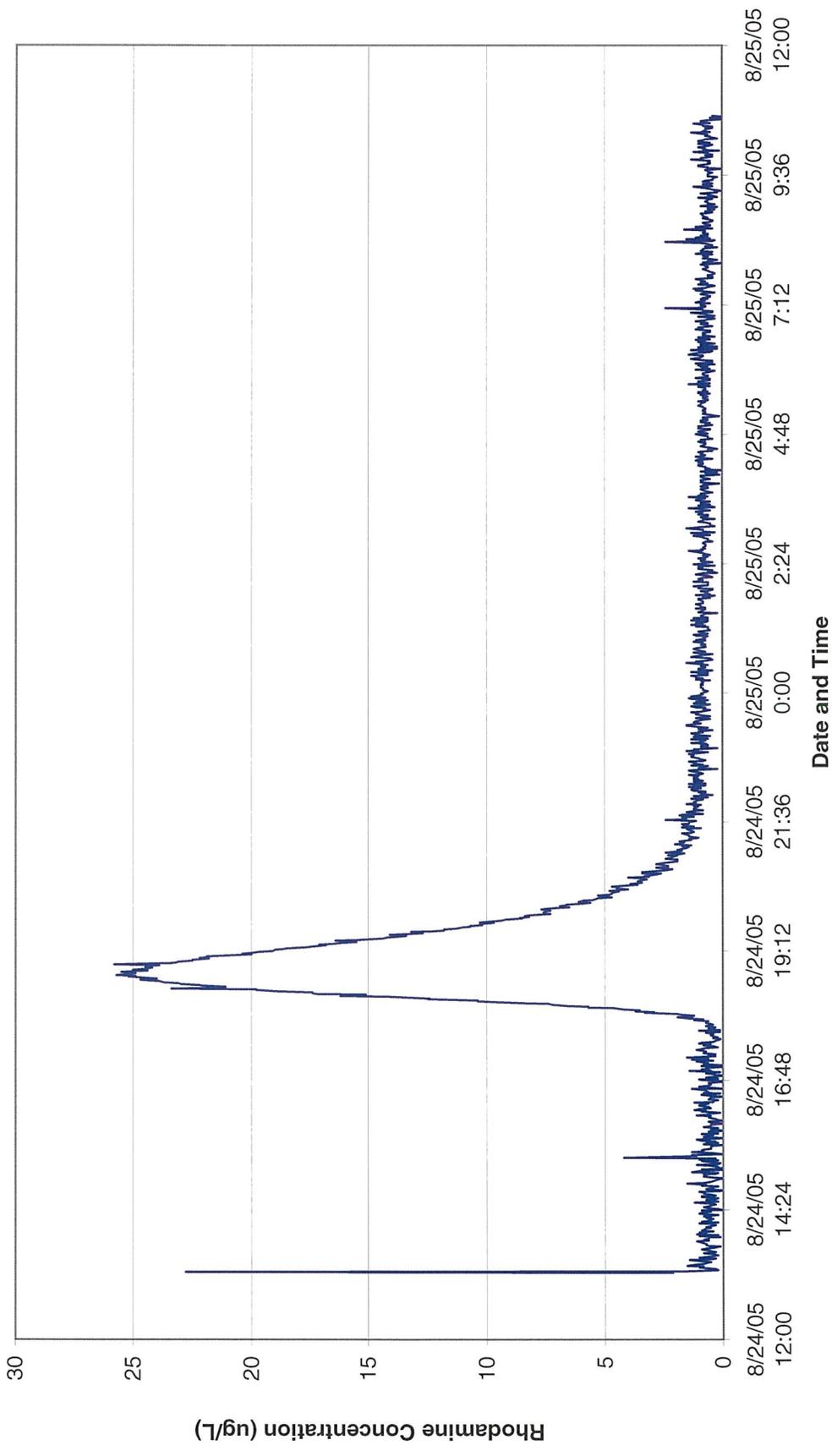


Figure H.2
Time of Travel Study
Curve at Site 4, Dye Dumped at Site 2

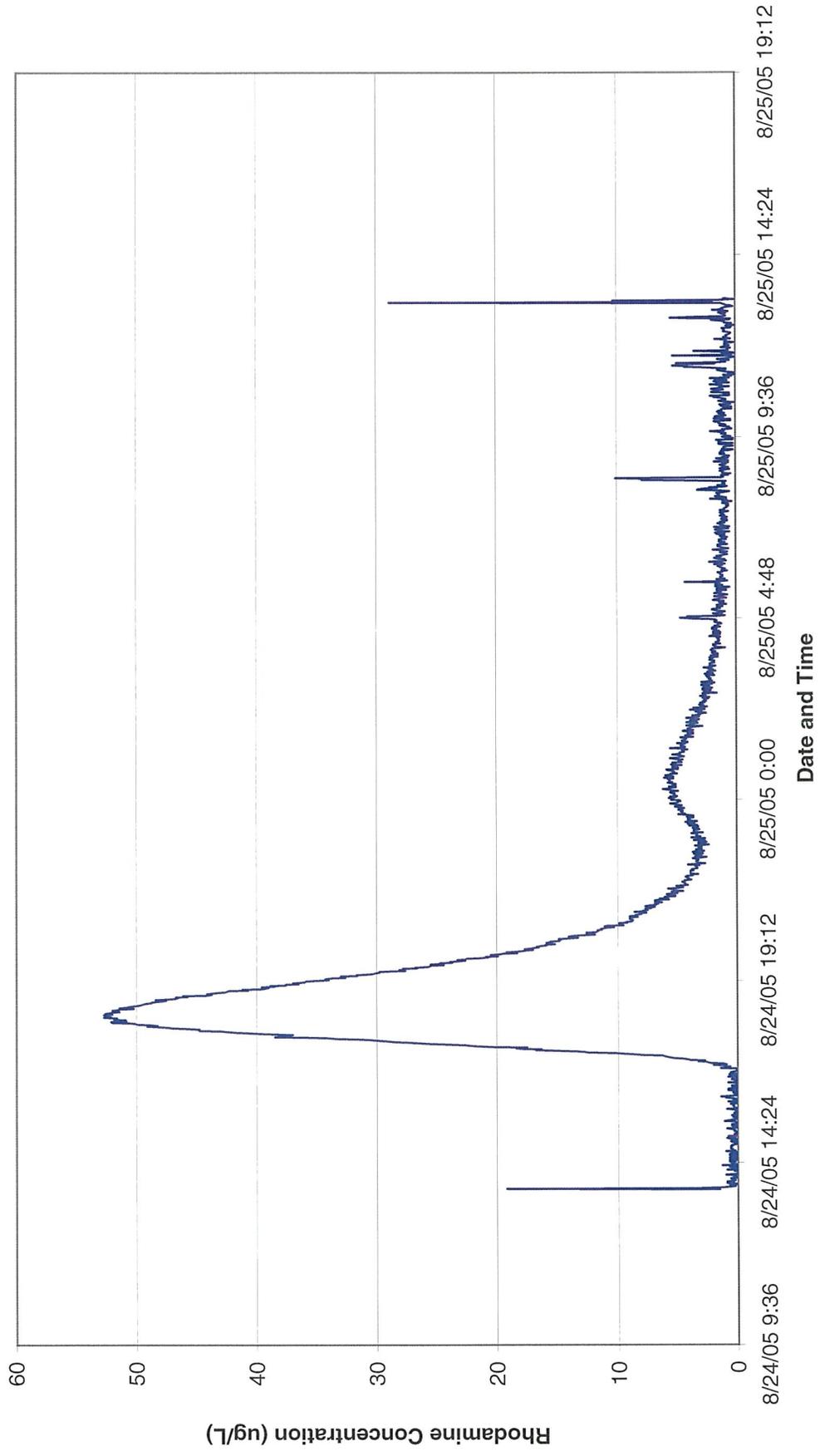


Figure H.3
Time of Travel Study
Curve at Site 6, Dye Dumped at Site 4

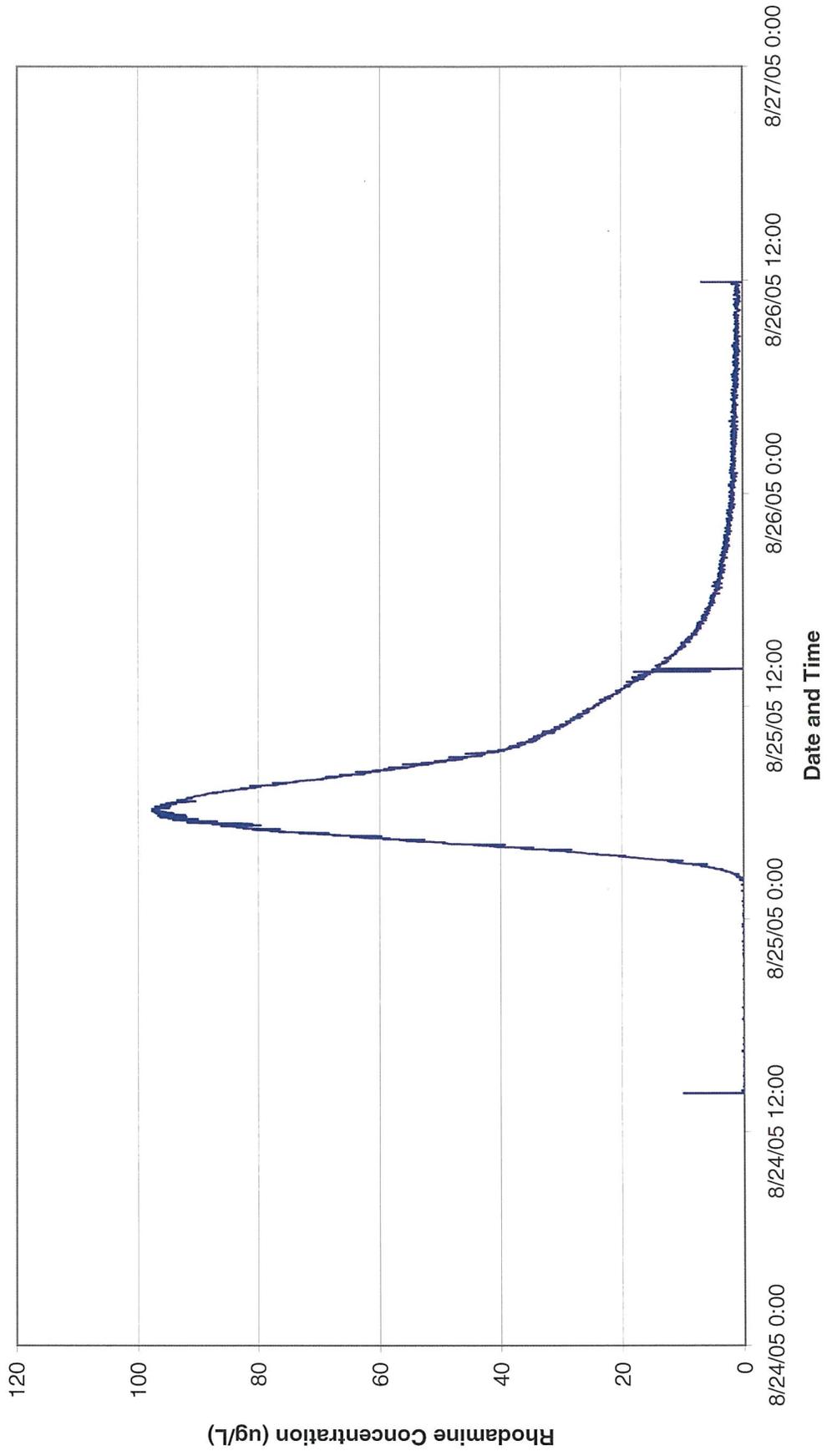


Figure H.4
Time of Travel Study
Curve at Site 8, Dye Dumped at Sites 6 & 4

