ICPRB Spill Model
and
Time of Travel Analysis
Flow Duration during travel time studies

% time flow >= value

Index gages

Anti  Cono  Mono  P. PP  P. Han  P. Sh  P. Rock  SBPo  Shen

15  15  39  70  72  70  63  32  45

87  90  95  90  90  94  90  95  85
<table>
<thead>
<tr>
<th>Potomac River Travel Times</th>
<th>RM</th>
<th>Hours after spill</th>
<th>Peak Conc. ug/l</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Leading Edge</td>
<td>Peak</td>
</tr>
<tr>
<td>Cumberland, (Wiley Ford Br.)</td>
<td>188.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Branch (RR Br)</td>
<td>180.0</td>
<td>6.6</td>
<td>8.3</td>
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<tr>
<td>Oldtown, MD</td>
<td>171.3</td>
<td>17.6</td>
<td>19.3</td>
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<tr>
<td>S. Br. Potomac R.</td>
<td>169.0</td>
<td>20.0</td>
<td>22.0</td>
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<tr>
<td>L. Cacapon River</td>
<td>165.0</td>
<td>24.3</td>
<td>26.8</td>
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<tr>
<td>Paw Paw, WV</td>
<td>160.6</td>
<td>28.9</td>
<td>32.0</td>
</tr>
</tbody>
</table>
Spill Travel Time on Potomac River
from River Mile 180

- Hours since beginning of spill
- Concentration (ug/l)
- River Mile above Chain Bridge

Legend:
- Leading Edge
- Peak
- Trailing Edge
- Concentration (ug/l)
Leading and Trailing Edges at 108hrs

Spill location on Potomac River 108 hours after spill

Graph showing concentration vs. River Mile
24hr Time of Travel above Intakes in Potomac Basin
Time of Travel Zones for the Potomac River above the WAD Intakes