MDEQ Dioxin Data Overview - Shiawassee and Saginaw River Watersheds
2004 EPA Great Lakes National Program Office Grant

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MDEQ-WHMD
Allan Taylor
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Shiawassee River
Saginaw River
  Upper Saginaw - non-navigational (Confluence/22.5 - 17.5 RM)
  Mid Saginaw - navigational (17.5-4.7 RM)
  Lower Saginaw - navigational (4.7 - Mouth/0)
Saginaw Bay
  East Bay
  West Bay

Distribution of Samples - 212 total samples from 116 stations
  Floodplain - 115  Shiawassee-22%, Saginaw-68%, Bay-10%
  Sediment     -  97  Shiawassee-33%, Saginaw-45%, Bay-22%
2004 MDEQ-WHMD Shiawassee River Floodplain and Sediment Data Results
Pre 2004 MDEQ-WHMD Saginaw River Sediment Data Results
Post 2004 MDEQ-WHMD Saginaw River Sediment Data Results
Post 2004 Dioxin / Furan TEQ Distribution

- 0 - 90 TEQ ppt
- 90 - 1000
- > 1000

Image source: DEQ Department of Environmental Quality
Hazardous Waste Section Technical Support Unit
PRELIMINARY CONCLUSIONS
1) The Shiawassee River is not a significant contributor of D/F to Saginaw.
2) The Saginaw River Floodplain is not as contaminated as the Tittabawassee River Floodplain.
3) The highest TEQ concentrations, (up to 16,000 ppt TEQ) were found in the Upper Saginaw River Sediments (non-navigational).
4) High levels (> 1000 ppt TEQ) were found in the Lower Saginaw River and west portion of Saginaw Bay at depth.

NEXT STEPS
2) Incorporate Dow Studies and Agency Data into Google Earth.

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