Figure 4-1 - Chromium VI Concentrations in Groundwater and Pore Water
Chromium Transport Study
Dundalk Marine Terminal
Baltimore, Maryland

Legend

Note: Chromium samples were collected from 2006 to 2009 and the concentrations depicted on the map represent the most recent representative results from each location. The pore water results represent data collected during the 4th Quarter 2008 sampling round.
Dissolved Chromium and Chromium VI Results in Groundwater (Section 1)
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland

Notes:
1) Horizontal scale for cross-section is distorted due to variability in section orientation. Refer to scale on plan view to determine the actual distance between boring locations.
2) Vertical Exaggeration = 20X
Figure 4-15
Dissolved Chromium and Chromium VI Results in Groundwater (Section 2)
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland
Figure 4-16
Simulated Backward Particle Tracks
Leading to Selected Shallow Monitoring Wells
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland

Legend
- **EA-11S** Shallow Aquifer Monitoring Well
- (20) Dissolved Cr-VI Concentration (µg/L)
- (ND) Not Detected above Quantitation Limit
- Particle Pathline with 5-Year Travel Time Tic Mark
- Approximate Extent of COPR Fill

Note: The estimated distance traveled by a flowing groundwater particle over a 5-year period is represented by the distance between the square tic marks spaced along the pathlines.
a) Tidal study hydrograph for well DMT-15S, which is located immediately inboard of the sheet pile bulkhead in Area 1200. The tidal response is negligible where the shallow fill unit is bounded by the sheet pile bulkhead.

b) Tidal study hydrograph for well DMT-58S, which is located on the southeast corner of Area 1501 adjacent to the Patapsco River. Tidal response is observed where the shallow fill unit is not bounded by the sheet pile bulkhead.

Figure 4-17
Tidal Response in the Shallow Fill Unit
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland