

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
SEDIMENT REMEDIATION COURSE: TECHNICAL CONSIDERATIONS FOR EVALUATING AND  
IMPLEMENTING DREDGING AND CAPPING REMEDIES**

**BOSTON, MASSACHUSETTS  
AUGUST 16 THROUGH 18, 2005**

***AGENDA***

***Tuesday, August 16, 2005***

**TAB**

<b>8:15AM</b>	<b>Sign-In</b>		
<b>8:30AM</b>	<b>Welcome and Introduction</b> Goals of the Course	Steve Ells and Kymberlee Keckler	
<b>8:50AM</b>	<b>Risk Management Perspective</b> Overview of 11 Sediment Principles Remediation Guidance Update	S. Ells	<b>A</b>
<b>9:05AM</b>	<b>Dredging and Capping Overview</b> Definitions/Terms Introduce Critical Technical Issues Dredging Capping	Norman Francingues, Mike Palermo, and Danny Reible	<b>B</b>
<b>9:35AM</b>	<b>Site Characterization and Remedial Investigation Considerations</b> Risk Assessment and Management Physical/Chemical/Biological Processes Conceptual Models Uncertainty Models/Tools	Todd Bridges	<b>C</b>
<b>10:00AM</b>	<b>BREAK</b>		
<b>10:15AM</b>	<b>Site Characterization and Remedial Investigation Considerations (continued)</b>	T. Bridges	<b>D</b>
<b>11:20AM</b>	<b>Open Discussion</b>		
<b>11:45AM</b>	<b>LUNCH (on your own)</b>		
<b>12:45PM</b>	<b>Environmental Dredging Equipment and Processes</b> Hydraulic Dredging Mechanical Dredging	M. Palermo	<b>E</b>

***AGENDA – August 5, 2005***

Production  
Resuspension  
Contaminant Release  
Residual Sediment

<b>1:30PM</b>	<b>Integration of Dredging, Transportation, and Disposal</b> Compatibility Issues On-site vs. Off-Site Considerations Re-handling, De-watering, Treatment Confined Disposal Facilities vs. Landfills	N. Francingues	<b>F</b>
<b>2:15PM</b>	<b>Dredging Case Study – Fox River, WI</b>	Jim Hahnenberg, EPA RPM	<b>G</b>
<b>2:45PM</b>	<b>BREAK</b>		
<b>3:00PM</b>	<b>Dredging Equipment Capabilities and Selection Factors</b>	M. Palermo	<b>H</b>
<b>4:30PM</b>	<b>Open Discussion</b>		
<b>5:00PM</b>	<b>ADJOURN – Day 1</b>		

*Wednesday, August 17, 2005*

<b>8:30AM</b>	<b>Dredging Operating Methods and Strategies</b> Sequencing of Dredging Production Cuts Over Dredging Cleanup Passes Operations Plans	M. Palermo	<b>I</b>
<b>9:15AM</b>	<b>Dredging Management and Control Measures</b> Containment Silt Curtains Particulates/Volatile Organic Compounds	N. Francingues	<b>J</b>
<b>10:15AM</b>	<b>BREAK</b>		
<b>10:30AM</b>	<b>Monitoring of Dredging</b> General Considerations Objectives Tools and Techniques Plans	N. Francingues	<b>K</b>

*AGENDA – August 5, 2005*

<b>11:30AM</b>	<b>Dredging Case Study – New Bedford Harbor, MA</b>	Jim Brown, EPA RPM	<b>L</b>
<b>11:55AM</b>	<b>Open Discussion</b>		
<b>12:15PM</b>	<b>LUNCH (on your own)</b>		
<b>1:15PM</b>	<b>Capping Objectives and Approaches</b> Physical Stability/Chemical Isolation/Flux Reduction Overall Project Design Selection of Areas Navigation Channels Water Depth and Flow Capacity Habitat Considerations TSCA Materials & Hot Spots	M. Palermo	<b>M</b>
<b>2:45PM</b>	<b>BREAK</b>		
<b>3:00PM</b>	<b>Capping Materials and Thickness</b> Granular Materials (e.g., sand, silt, clay) Innovative Materials (reactive) Impermeable Membrane/Geotextiles Armor Materials Material Sources Thickness Components and Design Approach (“layer cake”) Isolation Layer (physical & chemical, contaminant mobility modeling) Consolidation Bioturbation Erosion and Physical Stability Operational Considerations (e.g., ice gouging, anchoring, sediment mixing, variability in placement) Component Interactions and Overall Cap Thickness	D. Reible	<b>N</b>
<b>4:45PM</b>	<b>Open Discussion</b>		
<b>5:00PM</b>	<b>ADJOURN – Day 2</b>		

*Thursday, August 18, 2005*

<b>8:30AM</b>	<b>Capping Equipment and Operations</b> Placement Methods (mechanical and hydraulic) Placement of Stabilization/Erosion Protection Cap Placement Rates	M. Palermo	<b>O</b>
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**AGENDA – August 5, 2005**

Capping Design on Slopes  
Slope Stability and Bearing Capacity

<b>9:30AM</b>	<b>Capping Case Study – Pine Street Canal, VT</b>	Chris Crandell, The Johnson Company	<b>P</b>
<b>9:55AM</b>	<b>BREAK</b>		
<b>10:10AM</b>	<b>Cap Monitoring</b> Short-Term Implementation Resuspension Bathymetry, Cores, and Sediment Chemistry Long-Term Effectiveness Source Control Cores and Sediment Chemistry Institutional Controls	M. Palermo	<b>Q</b>
<b>11:10AM</b>	<b>Open Discussion</b>		
<b>11:45AM</b>	<b>LUNCH (on your own)</b>		
<b>12:45PM</b>	<b>Cap Placement and Monitoring</b> Anacostia Capping Project	D. Reible	<b>R</b>
<b>1:15PM</b>	<b>Design Specifications and Contracting</b> Specifications Contracts Oversight and Inspection	N. Francingues	<b>S</b>
<b>2:00PM</b>	<b>BREAK</b>		
<b>2:15PM</b>	<b>Dredging and Capping Considerations – Fox River, WI</b>	J. Hahnenberg	<b>T</b>
<b>2:45PM</b>	<b>Tying It Together – Evaluating Dredging and Capping</b> Panel Discussion	All Instructors	
<b>3:45PM</b>	<b>Open Discussion, Wrap-Up, and Feedback</b>		
<b>4:30PM</b>	<b>ADJOURN – Day 3</b>		