EPA/Corps Environmental Dredging Short Course

There will be time for questions and discussion following each topic

04/20/2005

8:30 AM	Opening Remarks, Introduction, Objectives	Bob Engler/*Steve Ells*
9:00	Project Objectives, Constraints and Standards RAOs, RGs, and Cleanup Levels ARARS, Windows, Other Regulatory Requirements Production, Quality of Life, and Other Constraints Design Criteria/ Performance Standards	*Reg. 10, NOAA, USACE reps*
9: 30	Definitions, Overall Project Considerations Basic definitions Environmental Dredging Project Evaluation	*Mike Palermo*
10:00	**BREAK**	
10:30	Integration of Dredging and Disposal Compatibility Considerations On Site vs. Off Considerations Rehandling, Dewatering, Treatment CDF and Landfill Disposal Requirements Throughput vs. Footprint Requirements	P*aul Schroeder*
11:30	Sediment and Site Characterization Physical and Chemical Sediment Characterization Site Conditions Pertinent to Dredging Evaluation	*P. Schroeder*
12:00	**LUNCH**	
1:00	Environmental Dredging Equipment and Processes Dredging Methods and Equipment Types Dredge-ability Production Precision, Vertical and Horizontal Sediment Resuspension Contaminant Release	*Norman Francingues/ M. Palermo*

Residual Sediment

2:00	Transportation, Offloading, and Rehandling Transport by Pipeline Transport by Barge	*N. Francingues*
2:30	**BREAK**	
3:00	Equipment Capabilities and Selection Factors Equipment Types Commonly Considered Equipment Capabilities and Selection Factors Production Rates Percent Solids by Weight Vertical Operating Accuracy Horizontal Operating Accuracy Dredging Depths Sediment Resuspension Control of Contaminants Residuals and Cleanup Criteria Positioning Control Maneuverability Portability/Access Availability Debris/Loose Rock/Vegetation Hardpan/Rock Bottom Flexibility for Varying Conditions Thin Lift/Residual Removal	*M. Palermo*
4:30	Pilot Studies	*N. Francingues*
5:00	**ADJOURN Day 1**	

04/21/2005

8:30	Predictive Methods, Tests, and Models Resuspension Source Strength Models DREDGE model Dredging Elutriate Tests (DRET) Volatilization Tests Application of SSFATE and	*T. Borrowman*

	Hydrodynamic/ Sediment Transport Models	
10:00	**BREAK**	
10:30	Operating Methods and Strategies Sequence of Dredging Production Cuts Overdredging Cleanup Passes Operations Plans	*M. Palermo*
11:30	**LUNCH**	
1:00	Management and Control Measures Containment Silt Curtains Treatment within Containments Control of Volatiles	*N. Francingues*
2:00	Monitoring General Monitoring Considerations Monitoring Objectives for Environmental Dredging Monitoring Tools and Techniques Monitoring Plans	*M. Palermo*
3:00	**BREAK**	
3:30	Contractual Considerations Cost Estimating Tools Pre-Qualification Cost Plus, Rental, Fixed Price Considerations Bid Items and Combining Bid Items	*P. Miller*
4:00	Inspection and Oversight Considerations Inspector Qualifications Authorities Critical items and processes for inspectors	*P. Miller*
4:30	General Discussion and Question/Answer	*All*
5:00	**ADJOURN**	