

Miss-IWW Navigation Study Technical Reports

Study Leader	Report No.	TITLE	Primary Author	ITR Reviewers		NECC Review	
KEEVIN	1	Computer model for transport of larvae between barge tows in rivers.	HOLLEY	MAYNORD	SCHNEIDER	YES	
	2	Effects of propeller entrainment on riverine ichthyoplankton.	KILLGORE	CADA	VANWINKLE	YES	
	3	Inflow zone and discharge through propeller jets.	MAYNORD	MARTIN	GARCIA	YES	
	4	Shear stress on the hull of shallow draft barges.	MAYNORD	MARTIN	GARCIA	YES	
	5	Hull shear mortality of eggs and larval fish.	MAYNORD	CADA	GARCIA	YES	
	6	Physiological effects on freshwater mussels (Family: Unionidae) of intermittent exposure to physical effects of navigation traffic.	PAYNE	CUMMINGS DOWNING	WATTERS	YES	
	7	Determination of the fate of fish displaced from low-velocity habitats at low temperatures.	SHEEHAN	THOMERSON	SCHAEFFER	YES	
	8	Determination of the tolerance of fish in low-velocity habitats to hydraulic disturbance at low temperatures.	SHEEHAN	THOMERSON	SCHAEFFER	YES	
	9	Effects of pressure changes induced by commercial navigation traffic on mortality of fish early life stages.	KEEVIN	CADA	MAYNORD	YES	
	10	Stranding potential of young fishes.	ADAMS	CADA	THOMERSON	YES	
	11	Mortality of fish early life stages resulting from hull shear associated with passage of commercial navigation traffic.	KEEVIN	CADA	VANWINKLE	YES	
	12	Abundance of fishes in the navigation channels of the Mississippi and Illinois Rivers, and estimation of entrainment mortality caused by towboats	GUTREUTER	SCHAEFFER	VANWINKLE	NO	
	13	Mortality of animals due to highway and railroad collisions	SCHAEFFER	GEHRT		YES	
	14	Effects of commercial Traffic on Freshwater Mussels in the Upper Mississippi River System. (STELLA MODEL)	SCHAEFFER	Will be Incorporated into Rpt. 18		YES	
	15	Water velocities behind wing dams (Flume Study)	MAYNORD	Davinroy	Pokrefke	YES	
	16	Water velocities behind wing dams (Field Study)	MAYNORD	Study not Started		NO	
	POKREFKE	16B	Ecological Models and Approach to Risk Assessment	BARTELL	JENSEN	CADA	YES
					KIMBER	CARPENTER	
			WHITNEY		WATTERS		
17		Ecological risk assessment of the effects of the incremental increases of commercial navigation traffic on larval fish entrainment	BARTELL	JENSEN	CADA	YES	
18		Ecological risk assessment of the effects of the incremental increases of commercial navigation traffic on mussels	BARTELL	Awaiting Report		NO	
19 & 22 (will be combined)		Definitions, Boundary Delineations, and Measurements of Attributes for the Hydraulic Classification of Aquatic Areas	NICKELS	POKREFKE	GAUGUSH	YES	
		Hydraulic Classification Analysis (Appendix to Classification Definitions Report)	POKREFKE	BIEDENHARN	GAUGUSH	YES	
20 (C11)		Application of UNET Model to Vessel Drawdown in Backwaters of Navigation Channels	MAYNORD	MARTIN	SOONG	YES	
21 (C14)		Comparison of NAVEFF Model to Field Return Velocity and Drawdown Data	MAYNORD	MARTIN	SOONG	YES	
23 (Reprint)		Users Manual for Application of HIVELE Hydrodynamic Model on the Upper Mississippi River	STOCKSTILL	BERNARD	HUDDLESTON	NA	
24 (C10)	A two-dimensional flow model for vessel-generated currents	STOCKSTILL	BERNARD	HUDDLESTON	YES		
25	Entrainment and Transport of Sediments by Towboats in the Upper Mississippi River and Illinois Waterway, Numerical Model Study	COPELAND	HOLLEY	HALL	NO		
26	Wave-Induced Sediment Resuspension Near the Shorelines of Upper Mississippi River Study	PARCHURE	MEHTA	GAILANI	YES NO		
27	Wave height predictive techniques for commercial tows on the UMRS	MARTIN	MAYNORD	KIMBER	YES		
28 (C13)	Data collection methodology for bathymetry and sediment data used in navigation feasibility studies	ROGALA	AIDALA	GAUGUSH	YES		
28B	Physical Forces Near Commercial Tows	MAYNORD	MARTIN	GARCIA	YES NO		
WILCOX	29 (C12)	Effects of Sediment Resuspension and Deposition on Plant Growth and Reproduction	DOYLE	KIMBER	BEST	YES	
	30	Effects of Rec. Boating: Traffic Allocation and Forecasting Model	CARLSON	WARD		YES NO	
	31	Ecological risk assessment of the effects of the incremental increase of commercial navigation traffic on submerged aquatic plants.	BARTELL	KIMBER	CARPENTER	YES NO	
BECKERT	32	Cumulative Impacts	WEST	POKREFKE	BARKO	NO	
				BAYLEY	THORTON		
COMPLETED REPORTS	C1	Flume study investigations of the direct impacts of navigation-generated waves on submersed aquatic macrophytes in the Upper Miss. River.	STEWART	MADSEN	SKOGERBOE	YES	
	C2	Rates of net fine sediment accumulation in selected backwater types of Pool 8, Upper Mississippi River.	ROGALA	SOONG		YES	
	C3	Physical Forces Study, Kampsville, Illinois Waterway	MAYNORD	NA - Data Report		YES	
	C4	Prediction of vessel-generated waves with reference to vessels common to the Upper Miss. River System.	SORENSEN	NA - Literature Review		YES	
	C5	Physical Forces Study, Clarks Ferry, Upper Mississippi River	MAYNORD	NA - Data Report		YES	
	C6	Upper Mississippi River navigation and sedimentation field data collection summary report.	PRATT	NA - Data Report		YES	
	C7	Site Specific Habitat Assessment	FRISTIK	BURKS	SCHROEDER	YES	
	C8	Bank Erosion Field Survey Report of the Upper Mississippi River and Illinois Waterway	ISWS/IHR	HAGERTY	MELLEMA	YES	
	C9	Identification of Potential Commercial Navigation Related Bank Erosion Sites	LANDWEHR	CHAMBERLAIN	MAYNORD	YES	

Indicates ITR commitment has been satisfied