

BOARDMAN RIVER FEASIBILITY STUDY
FUNDING SUMMARY
March 24, 2008

WORK AREA DESCRIPTION, CATEGORY & TASK	FULL SCOPE ESTIMATE (1.4M)	LIMITED SCOPE ESTIMATE (850K)	TOTAL OF WORK ORDERS/CONTRACTS ISSUED TO DATE (\$342,400)	WORK BY OTHERS	HIGH PRIORITY WORK ITEMS RECOMMENDED FOR FUNDING
<i>1) Communications and Public Education</i>	\$225,000	\$60,000	0		
a) Stakeholder Survey	\$101,802	\$25,000	0		
i. One-on-one interviews					
ii. Focus groups					
iii. Survey					
iv. Phone Survey					
b) Web-based Communication	\$61,160	\$15,000	0	BRDC	
i. Discipline Reports					
ii. Interactive Maps					
iii. A Calendar of Events					
iv. On-Line Survey					
v. News Bulletins					
vi. Graphical Displays					
vii. Intranet for the ECT Team					
viii. Community Forum					
c) General Communications	\$60,344	\$20,000	0	BRDC	
i. Speaker's Bureau					
ii. Presentations					
iii. Workshops					
iv. Media Updates					
v. Semi-Regular Columns					
vi. Communications Subcommittee					
<i>2) Determine & Document Existing Conditions</i>	\$675,000	\$390,000			
a) Environmental	\$237,736	\$108,000	\$115,000		
i. Fish and Wildlife Surveys					
ii. Vegetative Surveys					
iii. Water Quality					
iv. Sediment Contamination					

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b) Engineering	\$240,906	\$150,000	\$108,500		\$42,000
i. Groundwater					
ii. Structural and Operational Evaluations				Traverse City - \$60K	
iii. Surface and Underwater Surveys				USACE	
iv. Hydrologic, hydraulic (to be coordinated with effort to avoid duplication)					
1. Hydrologic					
2. Hydraulic					
3. Geomorph					
v. Geotechnical					
vi. Sediment Management; Report Review & Strategy				USACE	
vii. Existing Floodplain				USACE	
viii. Road Crossings					
c) Economic	\$87,170	\$46,000	\$76,900		
i. Costs Baseline					
ii. Economic Impact					
iii. Property Valuation					
iv. Tax Revenue					
d) Societal Stakeholder Survey	\$99,374	\$80,000	\$14,000		
i. Historic and Current Land Use					
ii. Property Ownership					
iii. Cultural Resources					
iv. Recreational					
v. Population and Land Use					
vi. Water Rights					
vii. Community Infrastructure					
viii. Community Identity					
e) NEPA Documentation	\$6,604	\$6,000	0		

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<i>3) Identification of Alternatives</i>	\$70,000	\$40,000	0	BRDC	\$20,000
a) Problems and Opportunities	\$68,679	\$40,000	0		
b) Study Objectives and Constraints					
c) Formulation of Alternatives					
i. No Action Alternative					
ii. Dam Removal					
iii. Full Rehabilitation					
iv. Partial Removal					
v. Modifications					
vi. Fisheries Management					
d) Determination of Expected End State and Transition					
e) NEPA Process					
<i>4) Evaluation of Alternative Plans</i>	\$326,000	\$278,000	0		
a) Environmental	\$119,858	\$95,000	\$10,000		
i. Resident and Migratory Species					
ii. Habitat Impacts					
iii. Protection from Environmental Threats					
iv. Vegetative Changes					
v. Water Quality					
vi. Potential Impacts to Ground Water Supplies					
vii. Contam Sediment					
b) Engineering	\$128,113	\$107,000	\$10,000		
i. Dam Struct / OP					
ii. Groundwater Supply					
iii. Impacts to Water Use					
iv. Flood Characteristics					
v. Sediment and Erosion					
vi. Stream Stability and Control					
vii. Cost Evaluating of Dam Removal					

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c) Economic	\$58,113	\$58,000	0		
i. Property Valuation					
ii. Recreational Benefits					
iii. Regional and Local Transitions					
iv. Financing Option					
d) Societal	\$18,160	\$18,000	0		
i. Cultural Resources					
ii. Community Risks/Liabilities					
iii. Property Ownership					
iv. Water Rights					
v. Societal Impacts					
vii. Recreational Opportunities					
viii. Community Identity					
viiii. Transportation					
5) <i>Selection of Preferred Alternative</i>	\$74,000	\$56,000	0		
6) <i>NEPA Documentation</i>	\$30,000	\$26,000	0		
a) Habitat					
b) Vegetation					
7) <i>BRDC Support</i>			\$8,000		

NOTES: