SECTION 22 STUDY UPDATE PHASE 2

Phase 2 Budget

I hase 2 budget						
	USACE	MSAC	TOTAL			
Cash	\$107,834	\$84,434	\$192,268			
WIK	\$0	\$24,720.79*	\$23,400			
Total Budget	\$107,834	\$109,154.79	\$215,668			

^{*\$1,320.79} of WIK from Phase 1 carried over into Phase 2

Phase 2 Contributions Received To-Date

	USACE	MSAC	TOTAL
Cash Received	\$90,000	\$80,000.00	\$170,000.00
WIK Credited	_	\$24,582.65	\$24,582.65
Total	\$90,000	\$104,582.65	\$194,582.65
Remaining	\$17,834	\$4,572.14	\$22,406.14
Contribution			

- Next meeting in early summer, we will present the Economic Analysis Results.
- Final Report on schedule for end of November.
- Recently received sponsor cash contribution of \$25,000 for project.
 - \$3,500 of work-in-kind credit remains
 - \$1,072.14 sponsor cash contribution remains

Phase 2 Schedule

Task	Description	Begin	End
1	Project History and Literature Review	01 JAN 22	11 JUL 22
2.1	✓Determine the Sed. Impacts Footprint	16 FEB 21	07 JAN 22
2.2	2.2 ✓GIS Project Development		30 MAR 22
2.3	✓Economic Analysis Inventory Development	16 FEB 21	07 JAN 21
2.4	Estimate of Near Term Sed. Mgmt. Costs	20 JAN 22	27 MAY 22
2.5	Identify Beneficial Uses for Sediment	14 FEB 22	27 MAY 22
3.1	✓Dredging Scenarios Update	16 FEB 21	25 OCT 21
3.2	✓Solutions Workshop	14 JUN 21	17 JUN 21
4	Economic Analysis	01 NOV 21	01 JUN 22
5	Environmental	12 JUL 22	05 OCT 22
6 —	Constraints	30 MAY 22	22 JUL 22
7.1	Draft Report Outline	01 JUN 22	01 JUL 22
7.2	50% Draft Report	05 JUL 22	17 AUG 22
7.3	90% Draft Report	01 SEP 22	31 OCT 22
7.4	Final Report	01 NOV 22	30 NOV 22
8.1	✓Kick-off Meeting (In-Person)	16 FEB 21	26 FEB 21
8.2	Initial Economic Analysis Results Mtg	01 FEB 22	01 FEB 22
8.3	50% Report Draft Meeting	18 AUG 22	20 SEP 22
8.4	Second Economic Analysis Results Mtg	01 JUN 22	30 JUL 22
8.5	90% Draft Report Meeting (In-Person)	03 OCT 22	31 OCT 22



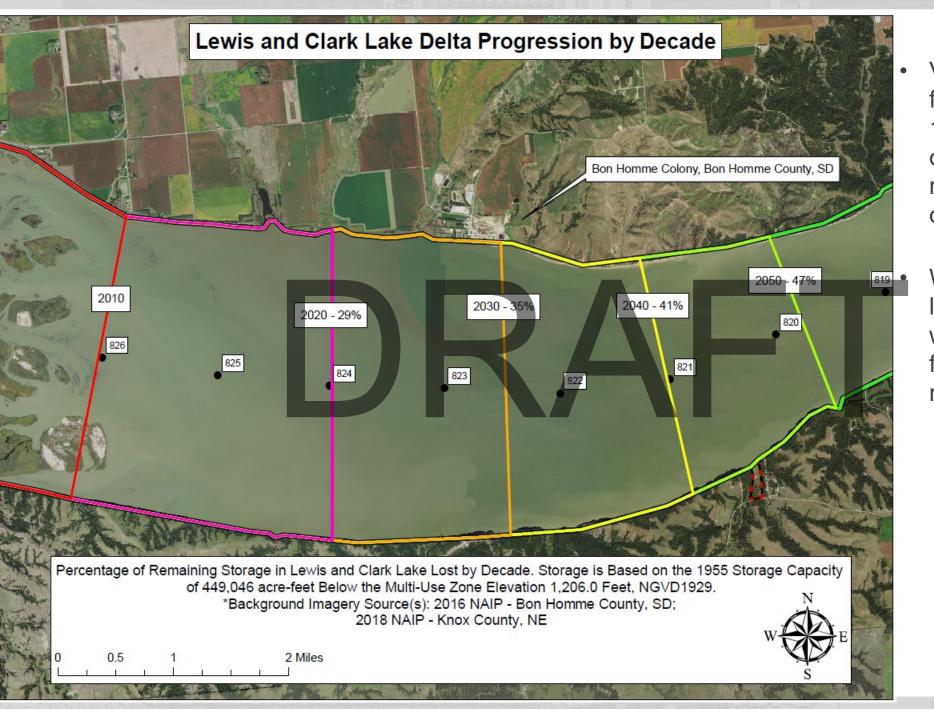


LEWIS AND CLARK LAKE SEDIMENTATION STUDY PHASE 2 TASKS UPDATE

- Solutions Workshop June 2021
 - Solutions identified by SME's
 - Dredging
 - Watershed Sediment Management
 - Flushing/Slicing
 - Sediment Trapping and Diversion
- Niobrara River Reconnaissance and Fluvial Geomorph Assessment
 - First site visit Nov 21, follow up in Summer 2022
- Economic Analysis
 - Finishing future conditions scenarios what do benefits and impacts look like in the future
 - Incorporating adjusted discount rate models into analysis (Life Cycle Economics)
- New Surveys in the works!





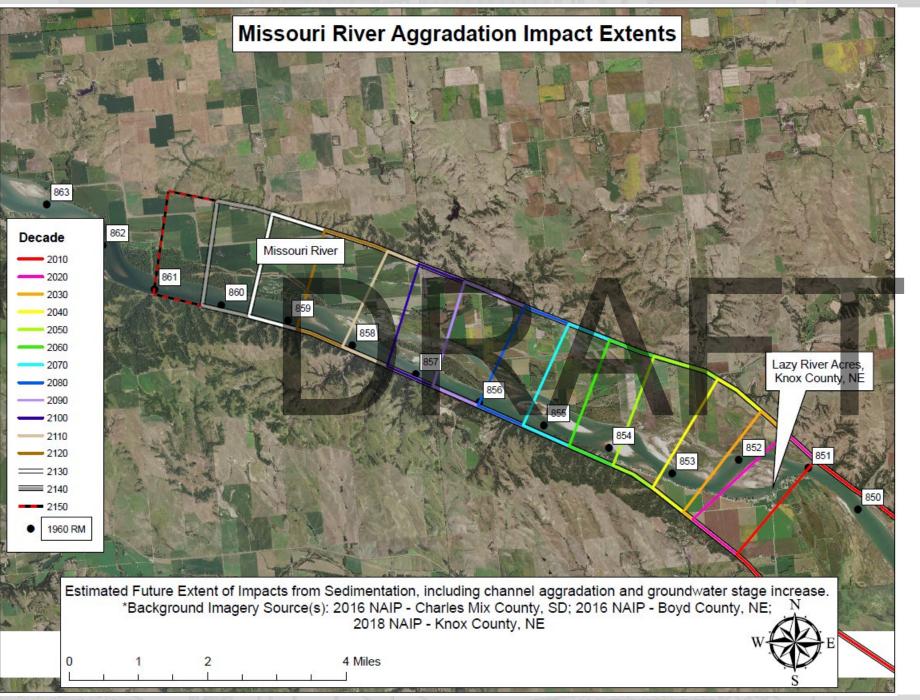


Volume Assessment for this study is below 1206 ft – Management of Reservoir will not result in sediment deposition below

When 100% volume lost is reached, there will still be 2-3 feet of flood storage in reservoir.







Above Niobrara River

- Aggradation front moves slower due to river slope
- Final extents are highly uncertain – there will also be degradation migrating down from below Ft. Randall Dam





LOWER NIOBRARA RIVER WATERSHED STUDY FLUVIALGEOMORPH: LEVEL I-CSA REPORT

FG Reach Map and Profiles

Niobrara River Reach 11



