

# LOWER MINNESOTA RIVER WATERSHED DISTRICT

### **Executive Summary for Action**

Lower Minnesota River Watershed District Board of Managers Meeting Wednesday June 19, 2019

#### Agenda Item Item 6. C. - Dredge Management

#### Prepared By

Linda Loomis, Administrator

#### Summary

#### i. Funding for dredge material management

The Legislature approved funding to the LMRWD in the amount of \$480,000 for the next biennium - \$240,000 each year. Staff will be putting together a work plan for the funds to submit to the Board of Water and Soil Resource and getting the grant agreement executed.

#### ii. Vernon Avenue Dredge Material Management site

The level of the Minnesota River finally dropped below flood stage on Wednesday, June 12 at 8:00pm. Staff will continue to evaluate the situation at the dredge site to determine whether or not the improvements to the site can be constructed this.

An Engineers Estimate of Probable Cost for improvements to the dredge site (bringing the containment berm up to industry standards) is attached. Included in the estimate are estimated costs for replacement of the culvert under the access road and upgrades to Vernon Avenue. Cost estimates are:

٠	Dredge Site Berms	\$1,552,430.00
•	Culvert Replacement	\$59,840.00
•	Vernon Avenue Upgrade	77,990.00

The CUP amendment was scheduled to come before the Savage Planning Commission on June 20th. However, there will not be a quorum at the meeting, so the item will be moved to the next meeting, which is July 18 (because of the 4th of July Holiday). The Amendment will then go on to the City Council.

A recent <u>newsletter from the Upper Mississippi River Waterway Association</u> has several good articles about the impact of flooding of the Mississippi River system.

#### iii. Private Dredge Material Placement

Material was being removed from the site as high water allowed. Stacking of material to dry is being tested. Early results indicate that stacking will decrease the drying time significantly.

#### Attachments

Engineer's Estimate of Probable Cost

Recommended Action No recommended Action

	PREPARED BY: BARR ENGINEERING COMPANY	REV 0	SHEET:	1	OF	1
BARR			BY:	JDW	DATE	: 6/4/2019
Dredge Site Ber	ms 90% Design		CHECKED BY:	JDW	DATE	: 6/4/2019
<b>ENGINEER'S OP</b>	INION OF PROBABLE PROJECT COST		APPROVED BY:		DATE	:
PROJECT:	LMRWD Dredge Site	ISSUED:			DATE	:
LOCATION:	City of Savage, MN	ISSUED:			DATE	
PROJECT #:	23701082	ISSUED:			DATE	:
OPINION OF CO	OST - SUMMARY	ISSUED:			DATE	:

# Engineer's Opinion of Probable Project Cost

## Dredge Site Berms

				ESTIMATED			
Specifications Section	Item	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST	NOTES
	А	Mobilization/Demobilization	L.S.	1	\$128,303.35	\$128,303.35	
Erosion Control an	d Removals						
	В	Rock Construction Entrance	Each	1	\$1,300.00	\$1,300.00	
	С	Silt Fence, Type MS	L.F.	4390	\$3.15	\$13,828.50	
Earthwo	rk						
	D	Excavation	CY	84000	\$5.00	\$420,000.00	
	E	Berm Construction with compaction	CY	46000	\$15.00	\$690,000.00	
	F	Import Topsoil	CY	2100	\$40.00	\$84,000.00	
Access Road w	ithin Site						
	G	Geotextile below road	SY	5540	\$3.00	\$16,620.00	
	Н	Aggregate	CY	1040	\$25.00	\$26,000.00	
Restorati	on						
	I	Seed Area	SY	5120	\$2.00	\$10,240.00	
	J	Seed	LB	25	\$125.00	\$3,125.00	
	К	Erosion Control Blanket	SY	5120	\$3.50	\$17,920.00	
		CONSTRUCTION SUBTOTAL				\$1,411,300.00	
		CONSTRUCTION CONTINGENCY (10%)				\$141,130.00	
		ESTIMATED CONSTRUCTION COST				\$1,552,430.00	

Culvert Replacement						
L	Mobilization	LS	1	\$4,947.00	\$ 4,947.00	
Erosion Control and Removals						
М	Rock Construction Entrance	Each	1	\$1,300.00	\$1,300.00	
Ν	Silt Fence, Type MS	L.F.	500	\$3.15	\$1,575.00	
0	In-channel Silt Curtain	LS	1	\$2,500.00	\$2,500.00	
Р	Remove and Dispose Culvert	LS	1	\$5,000.00	\$5,000.00	
Culvert Replacement						
Q	Install new culvert	LF	75	\$225.00	\$16,875.00	
R	Install flared end section	Each	2	\$2,500.00	\$5,000.00	
Earthwork						
S	Excavation	CY	630	\$5.00	\$3,150.00	
Т	Fill and Compaction	CY	630	\$7.50	\$4,725.00	
U	Gravel	Ton	125	\$25.00	\$3,125.00	
V	Granular filter	Ton	12	\$65.00	\$780.00	
W	Riprap	Ton	60	\$75.00	\$4,500.00	
Restoration						
W	Seed Area	SY	80	\$2.00	\$160.00	
Х	Seed	LB	4	\$125.00	\$500.00	
Y	Erosion Control Blanket	SY	80	\$3.50	\$280.00	
	CONSTRUCTION SUBTOTAL				\$54,400.00	
	CONSTRUCTION CONTINGENCY (10%)				\$5,440.00	
	ESTIMATED CONSTRUCTION COST				\$59,840.00	

Vernon Avenue Upgrade						
Z	Mobilization	LS	1	\$6,444.44	\$ 6,444.44	
Aggregate						
AA	Grade Existing Road	LS	1	\$10,000.00	\$10,000.00	
BB	Install new aggregate	Ton	1815	\$30.00	\$54,444.44	
	CONSTRUCTION SUBTOTAL				\$70,900.00	
	CONSTRUCTION CONTINGENCY (10%)				\$7,090.00	
	ESTIMATED CONSTRUCTION COST				\$77,990.00	

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