

Bassett Creek Main Stem Restoration – Regent Ave to Golden Valley Road

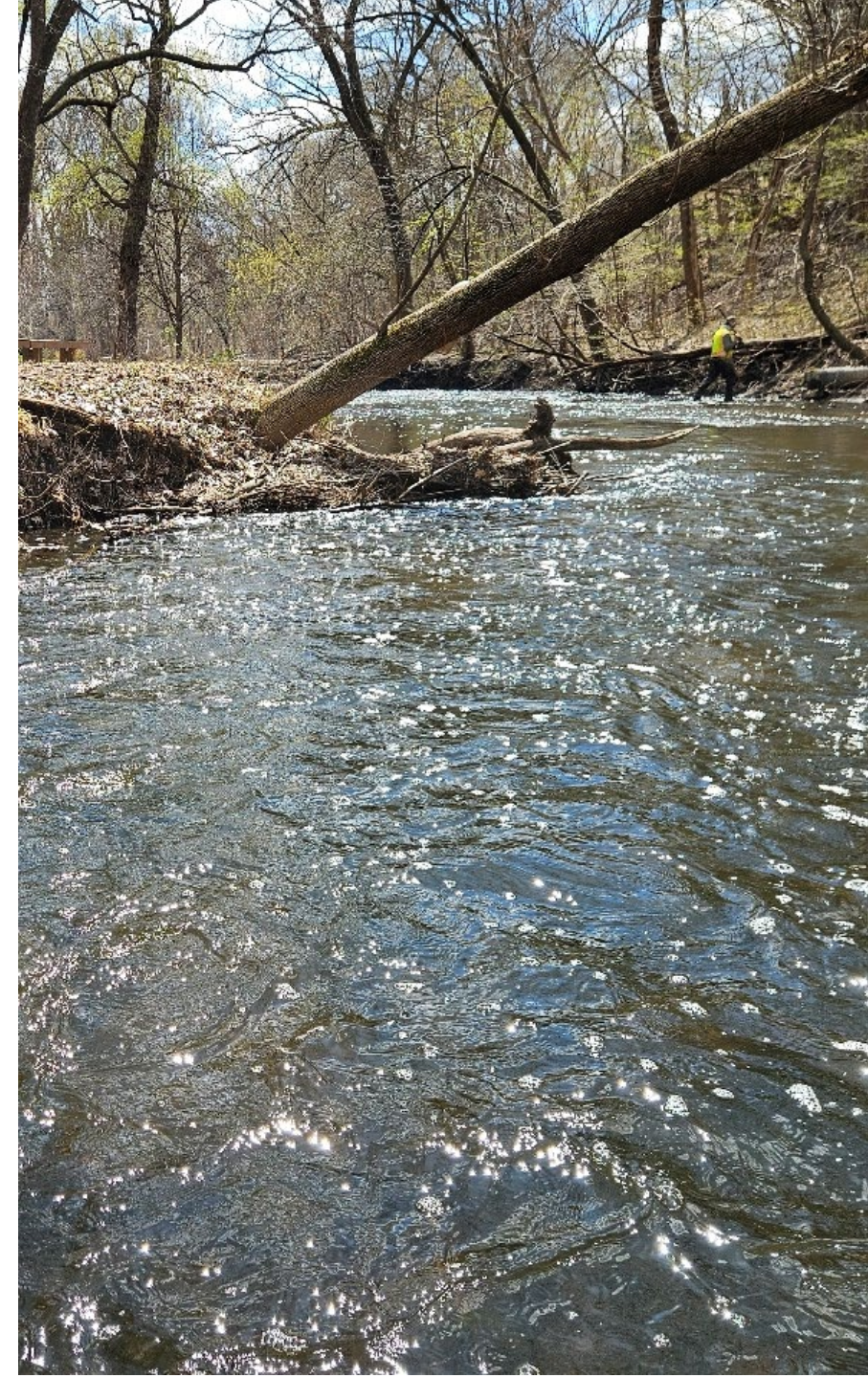


Costs and Cost Savings Alternatives

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Jessica Olson, P.E., Karen Chandler, P.E., Gabby Campagnola

Prepared for Bassett Creek Watershed Management Commission



Increased Project Cost Details (between Feasibility Study and 50% Design)



Purple represents proposed bank restoration in feasibility study
Blue represents additional erosion areas included in the 50% restoration design

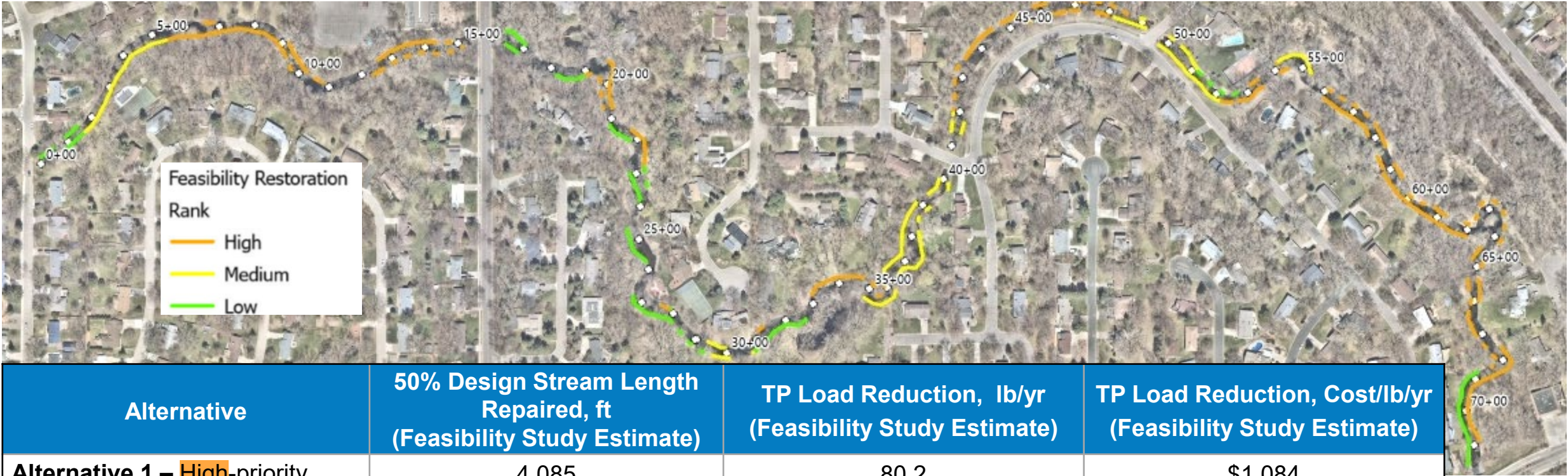
Alternative Comparison (Table 2 from Memo)



Alternative	Project Pros	Project Cons
Alternative 1 – High-ranked restoration areas	<ul style="list-style-type: none"> Lowest installation cost; reduces total project cost to \$1,346,000, which is \$222,000 less than the ordered project construction budget of \$1,568,000. Smallest project area; least amount of disturbance Removes the fewest trees Requires the fewest landowner agreements and easements 	<ul style="list-style-type: none"> Addresses smallest amount of priority eroding areas and associated pollutant removals Lowest potential for economy of scale; unit costs may be higher than for a larger project Would require a return to the project site if low or medium priority sites are addressed in the future
Alternative 2 – High- and medium-ranked restoration areas	<ul style="list-style-type: none"> Lower installation cost than Alternative 3; reduces total project cost to \$2,003,000, which is \$435,000 more than the ordered project construction budget of \$1,568,000. Fewer trees removed than Alternative 3 Fewer landowner agreements and easements than Alternative 3 	<ul style="list-style-type: none"> Would require \$435,000 additional funding beyond what was identified when the Commission ordered the project Requires more landowner agreements and easements than Alternative 1 Addresses fewer sites and associated pollutant removal than Alternative 3
Alternative 3 – High-, medium-, and low-ranked priority areas	<ul style="list-style-type: none"> Addresses all priority eroding streambanks and associated pollutant loading Allows for economy of scale (larger project could result in lower unit costs) Practicality of completing all work in the area at once 	<ul style="list-style-type: none"> Highest-cost alternative; requires \$804,000 additional funding beyond what was identified when the Commission ordered the project. Requires the largest number/area of landowner agreements and easements.
Optional Add-on One - Include invasive removal and vegetation enhancement on publicly-owned property adjacent to the creek	<ul style="list-style-type: none"> Improves floodplain and riparian vegetation quality and habitat on public lands 	<ul style="list-style-type: none"> Higher cost than base alternatives; would require \$99,000 additional funding beyond what was identified when the Commission ordered the project.
Optional Add-on Two – Include invasive removal and vegetation enhancement on privately-owned property adjacent to the creek	<ul style="list-style-type: none"> Combined with Optional Add-on One, improves the largest area of vegetation quality and habitat within the stream floodplain and riparian area 	<ul style="list-style-type: none"> Higher cost than base alternatives; would require \$121,000 additional funding beyond what was identified when the Commission ordered the project. Requires additional private landowner agreements beyond those needed for any of the base alternatives

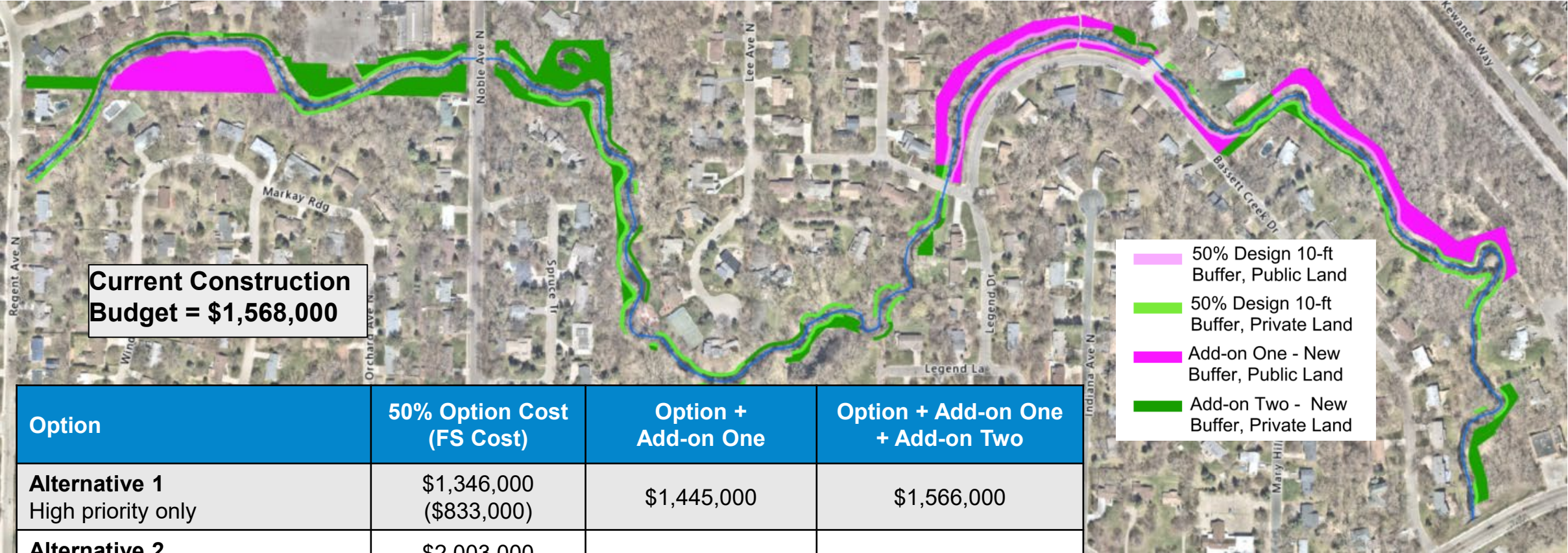
Alternative Map and Pollution Reduction Estimates

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Alternative	50% Design Stream Length Repaired, ft (Feasibility Study Estimate)	TP Load Reduction, lb/yr (Feasibility Study Estimate)	TP Load Reduction, Cost/lb/yr (Feasibility Study Estimate)
Alternative 1 – High-priority restoration areas	4,085 (4,340)	80.2 (54.4)	\$1,084 (\$1,323)
Alternative 2 – High- and medium-priority restoration areas	7,465 (5,425)	134.4 (67.0)	\$967 (\$1,642)
Alternative 3 – High-, medium-, and low-priority restoration areas	8,610 (7,370)	190.6 (82.4)	\$813 (\$1,650)

Enhanced Vegetation Management Map and Costs



Option	50% Option Cost (FS Cost)	Option + Add-on One	Option + Add-on One + Add-on Two
Alternative 1 High priority only	\$1,346,000 (\$833,000)	\$1,445,000	\$1,566,000
Alternative 2 High and medium priority	\$2,003,000 (\$1,279,000)	\$2,102,000	\$2,223,000
Alternative 3 High, medium, and low priority	\$2,372,000 (\$1,568,000)	\$2,471,000	\$2,592,000

Grant Opportunities and Other Potential Funding



- Conservation Partners Legacy Grant
- BWSR Clean Water Fund
- Hennepin County Opportunity Grant
- 2027 Levy

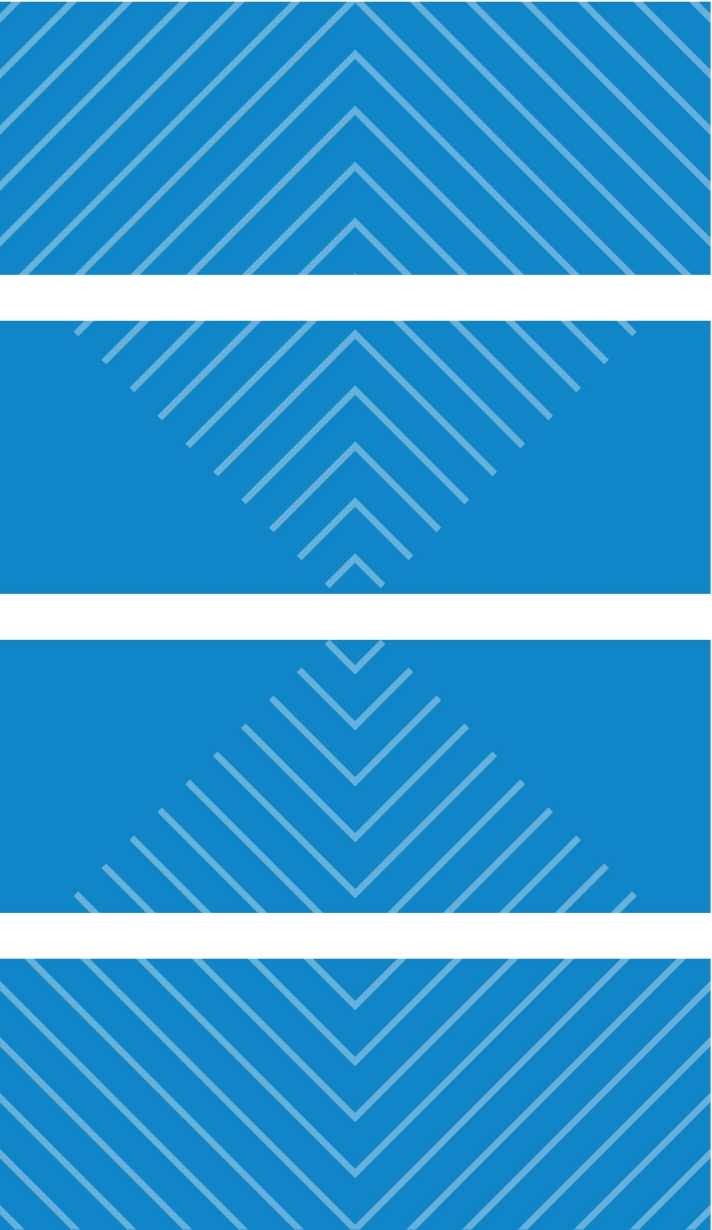


Recommendations



1. Select an alternative and authorize Commission Engineer to continue design and bring 90% design to a future Commission meeting
2. If a selected alternative is more expensive than budgeted, consider amending the project budget and amending the reimbursement agreement with City of Golden Valley





**Thank you
Discussion/Questions**

