



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 5Cii. Consider request for change in budget for Phase II environmental investigation in the Bassett Creek Main Stem Erosion Repair Project Feasibility Study BCWMC December 17, 2015, Meeting Agenda
Date: December 9, 2015

Item 5Cii. Consider request for change in budget for Phase II environmental investigation in the Bassett Creek Main Stem Erosion Repair Project Feasibility Study

Recommendations:

Consider approving an increase in budget of \$9,300 to cover the proposed scope of work for the Phase II Environmental Investigation.

Background

The feasibility study for the Bassett Creek Main Stem Erosion Repair Project (CIP project 2017CR-M) includes a Phase II Environmental Investigation to characterize the soils in the areas targeted for repair or stabilization as part of the project. The information will be used to evaluate options for managing soils at targeted areas where repair or stabilization measures for the project will likely include planting, grading or excavation. Soils that are removed as part of the project and do not meet Minnesota Pollution Control Agency (MPCA) criteria for unregulated fill will likely require landfill disposal rather than being reused as fill material at other sites. If landfill disposal is required, chemical data are needed to assess whether the soil is characteristically hazardous or nonhazardous and to provide the landfill with documentation of the chemical concentrations in the soil.

The proposed scope of work includes collecting soil samples from six locations using geoprobe drilling methods and shallower samples from five locations using hand augering or similar methods. Based on the results of the Phase I Environmental Site Assessment (ESA) and review of previous investigation reports, elevated concentrations of several chemicals have been documented along many sections of the creek, but little soil data are available along the areas of the creek targeted for repair or stabilization. Therefore, soil sampling is proposed in all three reaches of the creek, along the Main Stem of Bassett Creek from Cedar Lake Road to Irving Avenue North (Reach 1), Irving Avenue North to the tunnel inlet plus the overflow section to Second Avenue North (Reach 2), and the reach adjacent to the Fruen Mill site (Reach 3).

Soil will be classified and assessed for debris and evidence of environmental impacts and samples will be submitted to a laboratory for chemical analysis. The detailed scope of work is outlined in the December

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2015 Environmental Investigation Work Plan (Draft), Bassett Creek Main Stem Erosion Repair Project (Work Plan) (agenda item 5Ci).

The original estimated budget amount for the Phase II Environmental Investigation was \$20,500, but was noted to be predicated on the results of the Phase I ESA and review of historical information. This estimate assumed that previously obtained soil data was available along some of the reaches, and could be used in lieu of collecting additional data.

Phase II Environmental Investigation Budget Request

Additional budget is requested based on the results of the Phase I ESA and scope of work needed to obtain soil information along the sections of the creek targeted for repair or stabilization, which is outlined in the Work Plan. The Phase I ESA indicated that there is potential for and documented contamination along all three reaches of the creek, but review of multiple previous investigation reports indicated that little soil data is available adjacent to the creek along areas targeted for repair or stabilization. In particular, very little information is available near the creek on private properties including the Pioneer Paper property (Reach 1) and Fruen Mill property (Reach 3).

Given that investigations have been conducted on nearly all parcels adjacent to the project area, the original budget estimate assumed that some of these properties would not need additional investigation. Therefore, the original estimate assumed that the addition of Reaches 2 and 3 to the project area would not add significant cost to the investigation and reporting, or technical assistance for obtaining property access and liability assurances.

Our updated/revised cost estimate for the Phase II Investigation and Reporting is given below:

- Phase II Investigation – includes planning, contracting, lab and drilling costs, preparation of a health and safety plan and field work = \$14,400
- Phase II Investigation Reporting – includes drafting a report, addressing stakeholder comments and incorporating the investigation results into the Feasibility Study Report = \$11,400
- Meetings and Stakeholder Assistance – includes time for Commission Engineer to attend up to one external meeting, provide additional technical assistance for access negotiation and obtaining liability assurances = \$4,000

Total Budget = \$29,800

Original Estimate = \$20,500

Additional Request = \$9,300

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Total Work Scope and Cost Estimate

Tasks	Approved Budget for All Three Reaches ¹	Requested Change in Budget	Revised Total for All Three Reaches
1. Initial meetings with USACE and MN DNR	\$2,500	\$0	\$2,500
2. Information review, reach evaluation and development of concept alternatives and cost estimates	\$23,200	\$0	\$23,200
3. Wetland assessment	\$4,100	\$0	\$4,100
4. Archeological evaluation	\$1,000	\$0	\$1,000
5a. Phase I soil contamination investigation	\$10,000	\$0	\$10,000
5b. Phase II Work Plan and submit for MPCA technical review	\$5,500	\$0	\$5,500
5c. Assist BCWMC Administrator and Legal Counsel in their efforts to obtain access for Phase II	\$3,000	\$0	\$3,000
5d. Phase II soil contamination investigation (scope dependent on Phase I results)	\$20,500	\$9,300	\$29,800
6. Public meetings	\$2,500	\$0	\$2,500
7. Feasibility Report	\$23,400	\$0	\$23,400
Total	\$95,300	\$9,300	\$104,600

¹ Budget approved at October 15, 2015 Commission meeting