

Pre-Return Flow Root River Monitoring Plan Bid Proposal Summary

PREPARED FOR: Waukesha Water Utility

PREPARED BY: CH2M

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PROJECT: 684409

Overview

The United States Geological Survey (USGS) at Madison, WI and the University of Wisconsin - Parkside (UW-Parkside) at Kenosha, WI provided proposals to complete the tasks documented in the *Pre-Return Flow Root River Monitoring Plan* (December, 2016). The Plan includes water chemistry and biological monitoring plans to assess pre-return flow conditions of the Root River near and downstream of the proposed return flow. Sampling would occur from February through December 2017. A summary of the sampling efforts that were included in this bid are the following:

Water Chemistry Sampling				
Total Number of Sampling Events:	17			
Total Number of Water Quality Samples:	1,152			
Macroinvertebrate Sampling and Habitat Assessment				
Total Number of Sampling Events:	2			
Total Macroinvertebrate Samples:	12			
Fish Sampling				
Total Number of Sampling Events:	2			
Total Fish Samples:	10			

Proposals Received

The USGS and UW-Parkside each provided two proposals to present variations in levels of effort provided by both parties. These proposals include:

• USGS Proposal – Base

Budget for the completion of all Root River Monitoring Plan tasks.

• USGS Proposal – Multi-parameter Probe

Budget for equipment, equipment management and maintenance, and data retrieval and QA/QC for a multi-parameter water quality probe at the proposed return flow discharge Location C.

• UW-Parkside – Base

Budget for the completion of all Root River Monitoring Plan tasks.

• UW-Parkside – Base without Multi-parameter Probe

Budget for the completion of all Root River Monitoring Plan tasks excluding the multiparameter water quality probe monitoring at Location C.

	USGS Proposed Budget Base	USGS Proposed Budget Multi-parameter Probe	UW-P Proposed Budget Base	UW-P Proposed Budget Base without Multi- parameter Probe
Water Chemistry Sampling				-
Total Labor Cost:	\$81,178	\$11,400	\$29,193	\$29,193
Total Equipment Cost:	\$15,000	\$15,000	\$11,700	\$3,060
Total Travel Expense Cost:	\$8,840	\$200	\$2,652	\$2,652
Total Laboratory Expense Cost:	\$42,922	-	\$42,572	\$42,572
Total WQ Chemistry Sampling Cost:	\$147,940	\$26,600	\$86,117	\$77,477
Macroinvertebrates Sampling and Habitat Asse	ssment			
Total Labor Cost:	\$15,144		\$14,623	\$14,623
Total Equipment Cost:	\$250		\$3,936	\$3,936
Total Travel Expense Cost:	\$1,530		\$336	\$336
Total Laboratory Expense Cost:	\$3,900		Included in above costs	Included in above costs
Total Macro and Habitat Cost:	\$20,824		\$18,895	\$18,895
Fish Sampling				
Total Labor Cost :	\$16,207		\$5,327	\$5,327
Total Equipment Cost:	\$100		\$4,164	\$4,164
Total Travel Expense Cost:	\$1,900		\$336	\$336
Total Fish Sampling Cost:	\$18,207		\$9,827	\$9,827
Totals	\$186,971	\$26,600	\$114,839	\$106,199
Potential Cost Share (25%)	\$46,743	\$6,650	-	-
Revised Total	\$140,228	\$19,950	\$114,839	\$106,199

Recommendation

The proposals from USGS and UW-Parkside meet the scope and requirements of the Plan for a period between February and December 2017. Contracting with UW-Parkside is recommended for the Base Proposal without the multi-parameter probe for a budget cost of \$106,199. This proposal provides the following benefits to the City of Waukesha:

- Low cost for the base monitoring.
- Utilizes local resources and minimizes travel costs.
- Provides college student educational engagement opportunities by utilizing a local University that
 maintains quality control while also utilizing student help to provide educational opportunities while
 minimizing labor costs.
- Utilizes a professor from the University of Wisconsin-Waukesha to lead the fish biological sampling.
- Engages a non-federal entity that can partner with future grants, such as the EPA Challenge grants.

Contracting with USGS is recommended for monitoring with the multi-parameter probe at Location C for a budget cost of \$26,600. This proposal provides the following benefits to the City of Waukesha:

- Utilizes decades of experience in deploying and maintaining remote sensing probes in river environments.
- Compliments an existing contract between the City and USGS for monitoring at Location C.
- Allows USGS to store and transmit data to the existing webpage for data transmittal and monitoring.

Combining these two proposals have a budget total cost of \$132,799.