Summary of Staff Hours, Labor Costs, and Expenses City of La Crosse, Ebner Coulee Floodway FIRM Remapping - Additional Services

TASK	STAFF					
	Project	Prof	Hydraulic	GIS	Graphics	Word
	Manager	Engineer	Engineer	Technician	Designer	Processor
	BW	RP	RM			
1. Historic Rainfall Runoff Analysis						
Obtain and review daily rainfall data from NWS-La Crosse / NOAA NCDC for period of record from 1997 to 2017	2		6			
Obtain hourly rainfall data for largest annual events in each record year	1		6			
Summarize historic rainfall data and develop hyetograph for input into HEC-HMS model	1		4			
Calibrate SEH developed HEC-HMS model to Effective FIS discharge rates	1	1	6			
HEC-HMS modeling of historic rainfall events (20 runs)	1	1	12			
Hydrologic Analysis Summary Letter Report	6	1	2			
Hydraulic Modeling and mapping of Historic Annual rainfall-runoff Events						
Modify discharge rates in unsteady 2D HEC-RAS model to route computed historic flow hydrographs through study area	3	2	20			
Preparation of preliminary floodplain mapping figures	1	1	8	2		
3. Summary Technical Letter / Preparation of Review Submittal to the Wisconsin DNR	8	2	1			2
4. Discussion with Wisconsin DNR	4		1			
5. Presentation at Floodplain Committee Meeting	12	1	2		2	
6. Additional As-Requested Services	8	4	8			
Total Hours	48	13	76	2	2	2
Hourly Billable Rate	\$174	\$133	\$99	\$95	\$90	\$70
Total Labor Cost	\$8,352	\$1,729	\$7,524	\$190	\$180	\$140

Expenses: \$465
Total Project Cost: \$18,600