

## San Bernardino County Flood Control District El Dorado Fire Area Flood Mitigation Assistance (PWG123-FLOOD-4921)

Professional Service Fee

Prepared	d by CWE on 04/19/2023		Principal	Sr. Project Manager	Technical Manager	Senior Engineer	Project Engineer	Staff Engineer	Assistant Engineer	Project Coordinator	Graphic Designer	Mileage
Task		Total	\$296	\$290	\$241	\$182	\$176	\$142	\$116	\$114	\$130	\$0.655
Α	Literature Review and Field Investigation											
	Literature Review	\$12,640		8				40	40			
	Draft Literature Review Technical Memorandum	\$5,222	2.	4				12	12	1	2	
	Field Investigation	\$18,190		16		40		40				900
	Draft Field InvestigationTechnical Memorandum	\$5,854	2	4		8		16		1	2	
В	Hydrologic and Hydraulic Report											
	Hydrologic Analyses						-					
	Hydrology Study	\$25,680		8			80		80			
	Debris Yield Analysis	\$10,952		4			24		48			
	Bulking Factor Analysis	\$580		2								
	Draft Hydrologic Technical Memorandum	\$8,550	4	8			16		16	1	2	
	Hazard Identification, Risk Assessment, & Mitigation Options/Strategies											
	Hazard Identification											
	Existing Conditions HEC-RAS Floodking Analysis	\$25,794		8			80		80	1		
	Existing Conditions HEC-RAS Debris Flow Analysis	\$25,794		8			80		80	1		
	Draft Hazard Identification Memorandum	\$9,920	2	8			24		24			
	Risk Assessment											
	Evaluate sites for potential alternatives	\$6,992		8			16		16			
	Risk level reduction assessment with HEC-RAS	\$26,954		12			80		80	1		
	Draft Risk Assessment Technical Memorandum	\$6,424	2	4			16		16			
	Mitigation Options/Strategies Feasibility Analysis											
	Feasibility Matrix Development	\$7,584	2	8			16		16			
	District Review											
	Feasibility Analysis and Prioritization	\$28,114		16			80		80	1		
	Draft Mitigations Options/Strategies Technical Memorandum	\$7,584	2	8			16		16			
	District Review and Recommended Alternative Selection											
	Conceptual Design and Preliminary Cost Estimate											
	Development of Conceptual Plans	\$28,034		24			40		120	1		
	Preliminary Cost Estimate	\$6,960		8					40			
	Draft Hydrology and Hydraulics Report	\$10,626	4	8			24		24	1		
	Final Hydrology and Hydraulics Report	\$5,370	2	4			12		12	1		
С	Community Outreach											
	Pre-Study Community Outreach Meeting	\$10,936	4	8	16					4	24	
	Summary of Outreach Meeting	\$1,544		2	4							
	Post-Analysis Community Outreach on Recommended Alternatives	\$10,936	4	8	16				Ì	4	24	
	Summary of Outreach Meeting	\$1,544		2	4							
D	Project Management	1-7										
	Kickoff Meeting	\$3,316		4	4	4			4		er cy a Cognition)	
	Coordination Meetings	\$5,900		12	4	8						
	Schedule Updates	\$1,704						12				
	Monthly Progress Meetings	\$8,972		12	4	8		12		12		
		\$328,670	30	226	52	68	604	132	804	30	54	900
i otai r	All Direct Expense Costs are billed at Cost + 10%	\$320,070	30	220	32	00	004	132	007	30	<u> </u>	300

All Direct Expense Costs are billed at Cost + 10%