

Project: French Creek Fish Barrier Site

Date: 6/24/2013

Subject: Measurement and Pay Items - Engineers Cost Opinion

Work Item	Desc.	Unit	Quantity	Total Cost	Notes
1	Mobilization/Demobilization	LS	1	\$ 17,800	Includes all prep work for transport and movement of personnel, equipment, supplies and incidentals to/from the project site. Also includes constructing access road to the site.
2	Clearing, Grubbing and Demolition	LS	1	\$ 6,200	Includes clearing and grubbing work areas and removal of existing woody debris and rock.
3	Water Management	LS	1	\$ 19,000	Includes stream flow diversion, work area dewatering, stormwater management and sediment control
4	Structure Construction	LS	1	\$ 115,800	Includes general excavation, backfill, all materials, placing any special subgrade materials, formwork, rebar, placing concrete, stripping forms, finishing, and berm construction. Assumes existing rock onsite is suitable for riprap and placer mining stockpiles nearby are useable for berm construction. Also assumes larger diameter (6" +) material at stockpiles will have already been screened for other projects mentioned by FWP.
5	Reclamation and Revegetation	LS	1	\$ 3,000	Includes grading and vegetation of disturbed areas.
	<b>Construction Subtotal</b>			<b>\$ 161,800</b>	
	<b>Construction Contingency</b>			<b>\$ 16,200</b>	10% construction cost contingency
	<b>Construction Total</b>			<b>\$ 178,000</b>	Total construction cost estimate with 10% contingency.
	<b>Engineering Design and Administration</b>	<b>T&amp;M</b>		<b>\$ 5,000</b>	Finalize plans and assist in bidding and awarding project.
	<b>Construction Oversight</b>	<b>T&amp;M</b>		<b>\$ 15,000</b>	Includes construction surveying , on-site observation, submittal reviews and design field adjustments. (10-10hr days)
	<b>Grand Total</b>			<b>\$ 198,000</b>	