

OPINION OF PROBABLE CONSTRUCTION COSTS - FINAL 30% DESIGN

Project Area 24

Tucannon River Restoration

Item No.	Work Item	Unit	Quantity	Unit Cost	Cost	Notes
1.00 General Requirements						
1.01	Mobilization, including demobilization (8%)	LS	1	\$ 40,200	\$ 40,200	1
					\$ 5,000	
2.00 Water/TESC/SPCC/Traffic Control Plans						
2.01	Care of Water Plan	LS	1	\$ 1,500	\$ 1,500	
2.02	Temporary Erosion and Sediment Control (TESC) Plan	LS	1	\$ 1,000	\$ 1,000	
2.03	Spill Prevention Control and Countermeasure (SPCC) Plan	LS	1	\$ 1,000	\$ 1,000	
2.04	Traffic Control Plan	LS	1	\$ 1,500	\$ 1,500	
					\$ 14,000	
3.00 Site Preparation, TESC Measures, and Traffic Control						
3.01	Silt fence, installation, maintenance, removal	LF	250	\$ 8	\$ 2,000	
3.02	Construction Entrances	EA	3	\$ 1,500	\$ 4,500	
3.03	Traffic Control: flaggers and signage, 10 days	LS	1	\$ 6,000	\$ 6,000	
3.04	Clearing and grubbing	AC	0.25	\$ 6,000	\$ 1,500	
					\$ 5,950	
4.00 Sediment Retention LWD						
4.01	Earthwork, excavation, bulk	CY	30	\$ -	\$ -	
4.02	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 25' L	EA	3	\$ 600	\$ 1,800	
4.03	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 15' L	EA	4	\$ 500	\$ 2,000	
4.04	Log Pole, 1.5' dia., 12' L	EA	2	\$ 200	\$ 400	
4.05	Galvanized steel wire rope, 3/8" dia., 7x19 standard core	LF	120	\$ 2	\$ 240	
4.06	Galvanized steel wire rope clips, 3/8" cap.	EA	20	\$ 2	\$ 40	
4.07	Galvanized steel staples, 4" length	EA	20	\$ 2	\$ 40	
4.08	Earthwork, backfill & compaction, structure elements	CY	30	\$ -	\$ -	
4.09	Installation	LS	1	\$ 1,430	\$ 1,430	
					\$ 23,000	
5.00 Multi-Log LWD						
5.01	Earthwork, excavation, bulk	CY	240	\$ -	\$ -	
5.02	Log w/ rootwad, 1' dia. Log, 3' dia. RW, 30' L	EA	32	\$ 600	\$ 19,200	
5.03	Earthwork, backfill & compaction, structure elements	EA	240	\$ -	\$ -	
5.04	Installation	EA	2	\$ 1,900	\$ 3,800	
					\$ 170,808	
6.00 Channel Grade ELJ						
6.01	Earthwork, excavation, bulk	CY	600	\$ -	\$ -	
6.02	Log w/ rootwad, 2' dia. Log, 6' dia. RW, 40' L	EA	24	\$ 1,000	\$ 24,000	
6.03	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 35' L	EA	48	\$ 700	\$ 33,600	
6.04	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 20' L	EA	108	\$ 550	\$ 59,400	
6.05	Log Pole, 1.5' dia., 20' L	EA	48	\$ 250	\$ 12,000	
6.06	Galvanized steel wire rope, 3/8" dia., 7x19 standard core	LF	1,560	\$ 2	\$ 3,120	
6.07	Galvanized steel wire rope clips, 3/8" cap.	EA	192	\$ 2	\$ 384	
6.08	Galvanized steel staples, 4" length	EA	192	\$ 2	\$ 384	
6.09	Earthwork, backfill & compaction, structure elements	CY	3,840	\$ -	\$ -	
6.10	Installation	LS	12	\$ 3,160	\$ 37,920	
					\$ 119,816	
7.00 Bar Apex ELJ						
7.01	Earthwork, excavation, bulk	CY	880	\$ -	\$ -	
7.02	Log w/ rootwad, 2' dia. Log, 6' dia. RW, 30' L	EA	8	\$ 800	\$ 6,400	
7.03	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 30' L	EA	56	\$ 650	\$ 36,400	
7.04	Log w/ rootwad, 1.5' dia. Log, 4.5' dia. RW, 20' L	EA	96	\$ 550	\$ 52,800	
7.05	Galvanized steel wire rope, 3/8" dia., 7x19 standard core	LF	560	\$ 2	\$ 1,120	
7.06	Galvanized steel wire rope clips, 3/8" cap.	EA	64	\$ 2	\$ 128	
7.07	Galvanized steel staples, 4" length	EA	64	\$ 2	\$ 128	
7.08	Earthwork, backfill & compaction, structure elements	CY	1,760	\$ -	\$ -	
7.09	Installation	LS	4	\$ 5,710	\$ 22,840	

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OPINION OF PROBABLE CONSTRUCTION COSTS - FINAL 30% DESIGN**Project Area 24**

Tucannon River Restoration

Item No.	Work Item	Unit	Quantity	Unit Cost	Cost	Notes
8.00 Levee Removal					\$ 98,200	
8.01	Excavation (reuse onsite)	CY	4,910	\$ 20	\$ 98,200	
9.00 Selective Armor Rock Removal					\$ 5,800	
9.01	Removal of Armor Rock (reuse as backfill)	CY	290	\$ 20	\$ 5,800	
10.00 Channel Reconnection					\$ 6,600	
10.01	Excavation (reuse onsite)	CY	330	\$ 20	\$ 6,600	
11.00 Vegetation Restoration					\$ 1,000	
11.01	Selective planting, riparian enhancement	AC	0.2	\$ 5,000	\$ 1,000	
12.00 Excess Materials to be Excavated					\$ -	
12.01	Excess levee materials to be excavated for future material needs post-construction	CY	1,080	\$ -	\$ -	2
13.00 Care of Water Work					\$ 52,000	
13.01	Temporary flow diversion	EA	10	\$ 1,500	\$ 15,000	
13.02	Fish exclusion fence, temporary	SF	100	\$ 20	\$ 2,000	
13.03	Fish rescue and recovery	EA	10	\$ 1,000	\$ 10,000	
13.04	Dewatering, pumping	EA	10	\$ 2,500	\$ 25,000	
SUMMARY						
	Construction Subtotal				\$ 542,374	3
	Contingencies (30%)				\$ 162,800	4
	Columbia County sales tax (7.9%)				\$ 55,709	5
	Project Construction Total				\$ 760,883	6-11

Notes and abbreviations:

- Mobilization is assumed to be 8% of the pre-tax subtotal.
- Excess levee material may be used as source pile for future restoration activities as described in the design report.
- Construction subtotal includes mobilization.
- Contingencies account for design and cost uncertainty. Design contingency is expected to decline as the design progresses.
- Sales tax is applied to the sum of the 'Construction Subtotal' and 'Contingencies.'
- Costs are in 2012 dollars.
- Survey work required for construction is not included in this opinion.
- Oversight of construction activities by the contracting officer required for construction is not included in this opinion.
- Engineering design/permitting, legal, and administrative costs are not included in this opinion.
- Costs for maintaining project post-construction are not included in this opinion (e.g. irrigation and planting protection measures).
- In providing opinions of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market condition or the Contractor's method of pricing, and the Consultant's opinions of probable construction costs are made on the basis of the Consultant's professional judgment and experience. The Consultant makes no warranty, expressed or implied that the bids or the negotiated cost of the Work will not vary from the Consultant's opinion of probable construction cost.

AC - Acre, CY - Cubic Yard, Dia. - Diameter, EA - Each, LF - Linear Foot, LS - Lump Sum, SY - Square Yard, YR - Year
LWD - Large Woody Debris Cap. - Capacity
ELJ - Engineered Log Jam RW - Rootwad