

Class C Cost Estimates for FY'13 LIC SCC Funding Request: PMIS 173901 -- Emergency Restoration of Bridge Creek Watershed to Protect Park Resources

Construction Estimates:

Unit Prices':

Export Outslope: \$7.84 /cu. yd.  
Stream Crossings: \$9.59 /cu. yd.  
Outslope: \$6.28 /cu. yd.  
Skid Outslope: \$6.28 /cu. yd.  
XRD: \$3,000 each  
Brushing: \$4,000 /mile  
Rebuilds: \$4,500 /day

Volumes:

Export Outslope: 7 yd/ft  
SXs: 1500 cu. yds  
Outslope: 3 yd/ft  
Skid Outslope: 1.5 yd/ft  
XRD: 0 XRD/1000ft = # XRD per 1000ft  
  
Mobil. Costs %: 5% of Total Equipment Costs (TEC)

Notes: \* Length of associated skid roads based on ratio of estimated 3000 miles of skid road originally in park to 415 miles of haul road originally in park = 7.23 miles of skid per mile of haul

Road	Watershed	Total Road Length		Access		Fixed Prescriptions				Prescription Alternatives				VOLUMES						Fixed Costs					Alternate Costs			Total Equipment Costs (TEC)	MOBIL. Costs	Total Project Cost	Total Volume (cu. yds.)
		Haul Road (feet)	Associated Skid Roads* (feet)	Brushing (miles)	Rebuilds (days)	Volume RX (cu. yds.)	Length RX (feet)	# of SXs	Length EOS (feet)	Length OS (feet)	# of XRD	Length Skid OS (feet)	Fixed Volumes			Alternate Quantities			Brushing	Rebuilds	RX	EOS	SX	OS	XRD	Skid OS					
													RX	EOS	SX	OS	# of XRD	Skid OS													
													(cu. yds.)	(cu. yds.)	(cu. yds.)	(cu. yds.)		(cu. yds.)													
M-7-1-1/2	Bridge	5904	42686	0.000	1	3250	350	2	2200	3354	0	0	3250	15400	3000	10062	0	0	\$0	\$4,500	\$31,168	\$120,736	\$28,770	\$63,189	\$0	\$0	\$248,363	\$12,418	\$260,781	31712	
M-7-1	Bridge	3608	26086	0.000	1	1400	300	0	2025	1283	0	0	1400	14175	0	3849	0	0	\$0	\$4,500	\$13,426	\$111,132	\$0	\$24,172	\$0	\$0	\$153,230	\$7,662	\$160,892	19424	
G-4	Bridge	5412	39129	1.025	0	1725	400	4	1250	3762	0	1000	1725	8750	6000	11286	0	1500	\$4,100	\$0	\$16,543	\$68,600	\$57,540	\$70,876	\$0	\$9,420	\$227,079	\$11,354	\$238,433	29261	
M-5	Bridge	1640	11857	0.311	1	0	0	1	525	1115	0	0	0	3675	1500	3345	0	0	\$1,244	\$4,500	\$0	\$28,812	\$14,385	\$21,007	\$0	\$0	\$69,948	\$3,497	\$73,445	8520	
B-5-2	Bridge	5904	42686	1.118	1	3550	500	4	1130	4274	0	500	3550	7910	6000	12822	0	750	\$4,472	\$4,500	\$34,045	\$62,014	\$57,540	\$80,522	\$0	\$4,710	\$247,803	\$12,390	\$260,193	31032	
Subtotal:		22468	162444			9925	1550	11	7130	13788	0	1500	9925	49910	16500	41364	0	2250	\$9,816	\$18,000	\$95,182	\$391,294	\$158,235	\$259,766	\$0	\$14,130	\$946,423	\$47,321	\$993,744	119,949	

Unit Prices':

Export Outslope: \$7.84 /cu. yd.  
Stream Crossings: \$9.59 /cu. yd.  
Outslope: \$6.28 /cu. yd.  
Skid Outslope: \$6.28 /cu. yd.  
XRD: \$3,000 each  
Brushing: \$3,000 /mile  
Rebuilds: \$3,500 /day

Volumes:

Export Outslope: 35 yd/ft  
SXs: 1500 cu. yds  
Outslope: 17.8 yd/ft  
Skid Outslope: 5 yd/ft  
XRD: 1 XRD/1000ft = # XRD per 1000ft  
  
Mobil. Costs %: 1.5% of Total Equipment Costs (TEC)

Notes: \* Length of associated skid roads based on ratio of estimated 3000 miles of skid road originally in park to 415 miles of haul road originally in park = 7.23 miles of skid per mile of haul

		Total Road Length		Access		Fixed Prescriptions				Prescription Alternatives				VOLUMES						Fixed Costs						Alternate Costs			Total Equipment Costs (TEC)	MOBIL. Costs	Total Project Cost	Total Volume (cu. yds.)
Road		Haul Road (feet)	Associated Skid Roads* (feet)	Brushing (miles)	Rebuilds (days)	Volume RX (cu. yds.)	Length RX (feet)	# of SXs	Length EOS (feet)	Length OS (feet)	# of XRD	Length Skid OS (feet)	Fixed Volumes			Alternate Quantities			Brushing	Rebuilds	RX	EOS	SX	OS	XRD	Skid OS						
													RX (cu. yds.)	EOS (cu. yds.)	SX (cu. yds.)	OS (cu. yds.)	# of XRD	Skid OS (cu. yds.)														
M-Line	Bridge	10796	78055	0	10	138903	2250	7	2961	5575	30	0	138903	103635	10500	99235	0	0	\$0	\$35,000	\$1,097,797	\$812,498	\$100,695	\$623,196	\$90,000	\$0	\$2,759,186	\$41,388	\$2,800,574	352273		
Sub-total:		10796	78055			138903	2250	7	2961	5575	30	0	138903	103635	10500	99235	0	0	\$0	\$35,000	\$1,097,797	\$812,498	\$100,695	\$623,196	\$90,000	\$0	\$2,759,186	\$41,388	\$2,800,574	352,273		
Construction Totals		33264	240499	0	0	148828	3800	18	10091	19363	30	1500	148828	153545	27000	140599	0	2250	\$9,816	\$53,000	\$1,192,979	\$1,203,792	\$258,930	\$882,962	\$90,000	\$14,130	\$3,705,609	\$88,709	\$3,794,318	472,222		

Item	Description	Amount
Total Project Net Construction Costs	Includes all construction costs associated with the removal of the proposed roads in Bridge Creek	\$3,794,318
Second-Level Cost Add-Ons:		
Add-On	Description	Amount
Compliance	Includes T&E surveys and monitoring of work sites after restoration measures have been implemented Default: 5% Total Project Net Construction Costs:	\$189,716
Pre-Design	Includes field investigation, geomorphic mapping and site delineation and work site surveys Default: 5% Total Project Net Construction Costs:	\$189,716
Final Design	Includes generation of plansheets and contracts, contractor selection and work site preparation Default: 10% Total Project Net Construction Costs:	\$379,432
Supplemental Services	 Default: 2% Total Project Net Construction Costs:	\$75,886
Construction Management	No construction management funds requested as all construction management will be conducted by NPS staff at REDW and funding will be from base funds Default: 0% Total Project Net Construction Costs:	\$0
Construction Contingency	 Default: 10% Total Project Net Construction Costs:	\$379,432
Component Funding Request	Includes Total Project Net Construction Costs and Total Add-On Amount	\$5,008,500