

Project title: **Copper River Watershed Enhancement project 18180120**

Principal Investigators:

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Time period covered by report: February 1, 2022 – April 30, 2022

Date of report: May 2, 2022

Project Status:

This project includes the replacement of 11 culverts and removal of 2 more on the Copper River delta. See table 1 for status of individual projects.

During this period the following activities have occurred:

Cop 33 & 1:

- Partners convened in Feb. to discuss options for Cop 33, including the potential for a bridge vs. a new culvert. After evaluating the price point and alternatives for improving constructability, we decided to continue with culvert plans for this site.
- In April, partners convened to review 95% designs for Cop 33 and Cop 1.
- The proposal submitted to Western Native Trout Initiative to request additional construction funding for Cop 33 was forwarded on to the National office with a recommendation for funding. We will know more in fall 2022 as to whether or not the funding is awarded.
- Partners are pursuing additional funding sources in order to implement restoration at Cop 1.

Remaining crossings (Cop 9, Sher 1, Cab 2/1):

- DOWL has completed field survey work at these sites and will begin designs for these crossings. We are exploring re-locating the Sher 1 crossings to convey water under the Copper River highway vs. the USFS Road 220. We plan to convene a review discussion focused on the H&H and 15% design review for these crossings in May 2022.
- Partners are pursuing additional funding sources in order to implement restoration at these sites.

2022 Field Work:

- Partners discussed some post-restoration follow-up activities to ensure adequate vegetation is established at sites and to remove some material that has impacted wetland connectivity at Cop 20. These activities will be implemented in May-July of this year.
- USFS will not be implementing road work on USFS Road 220 to remove the undersized Sher 2 culvert and install a low-water ford. We anticipate this will occur in 2023 instead.

Hydrology updates:

- None to report.

Other updates:

- CRWP hosted a virtual booth featuring fish passage on EVOS-impacted lands as part of Chugach Region Resource Commission's Annual Memorial Gathering.
- The Copper River EVOS Project Page (for partners) was updated during this quarter. All reports, comments, meeting notes, and hydrology data was shared with project partners through our website. All project materials can be viewed at: <https://copperriver.org/copper-river-evos-project-page/>. Password: culvert

Budget update:

- See Tables 1 & 2.

Table 1: EVOS culvert status

-	Stream Name	ADFG Number	CRWP Culvert ID	EVOSTC Total Request	Current Estimated Total costs	Ownership	Solution	Status	Upstream Miles
2020	Lower Copper River	20100508	COP 43	\$ 616,842	\$ 790,499	DOT	Replace	Constructed/Monitoring	2.4
		20100510	COP 44	\$ 616,847	\$ 790,504	DOT	Replace	Constructed/Monitoring	
		20100511	COP 45	\$ 187,846	\$ 790,503	DOT	Replace	Constructed/Monitoring	
2021	18 Mile System	20100486	COP 20	\$ 714,342	\$ 708,324	DOT	Replace	Constructed/Monitoring	2.32
		20100488	COP 22	\$ 1,006,842	\$ 993,248	DOT	Replace	Constructed/Monitoring	5.64
		20100491	COP 25	\$ 714,344	\$ 1,108,688	DOT	Replace	Constructed/Monitoring	2.38
	Sheridan River Tributary	20101902	SHER 2	\$ 58,842	\$ 187,039	USFS/Eyak	Remove	Designed, going to bid spring 2023	0.7
2023	Black Hole Creek	20100499	COP 33	\$ 1,006,845	\$ 1,566,107	DOT	Replace	surveyed, in design, go to bid fall 2022 for 2023 construction	3.2
Remaining	Sheridan River Tributary	20100467	COP 1	\$ 1,006,842	\$ 1,065,024	DOT Airport Leasing	Replace	surveyed, in final design stages	1.5
	Sheridan River Tributary	20100475	COP 9	\$ 616,843	\$ 1,205,555	DOT/Eyak	Replace	surveyed, in design	same as 20201903
		20101903	SHER 1	\$ 331,842	\$ 936,425	USFS/Eyak	Replace	surveyed, in design	
	Elsner River Tributary	20101904	CAB 1	\$ 56,342	\$ 196,554	DOT Airport Leasing/Eyak	Remove	surveyed, in design	0.3
		20101905	CAB 2	\$ 544,344	\$ 820,554	DOT Airport Leasing/Eyak	Replace	surveyed, in design	
	Total Direct Cost			\$ 7,478,963	\$ 11,159,024				21.74
	9% GA			\$ 673,107	\$ 1,004,312				
	Total Cost			\$ 8,152,070	\$ 12,163,336				
MATCH		20100482	COP 16			DOT	Replace	complete	

Table 2: Major expenses by category

Copper River EVOS Watershed Enhancement Expense Summary	
Item or Activity	Estimated cost
Engineering and Design contracts	
Geotechnical @ all sites & design @ 25 mile: Cop 43, 44, 45	\$ 318,248.00
Design @ 18 mile: Cop 20, 22, 25	\$ 177,682.50
Design for Cop 1 & 33	\$ 234,836.00
Design for Cab 2, Cop 9, Sher 1	\$ 210,871.00
Total Estimated Design and Other Contracts	\$ 941,637.50
Construction Costs	
Construction @ 25 mile: Cop 43, 44, 45	\$ 1,744,839.00
Construction @ 18 mile: Cop 20, 22, 25	\$ 2,178,145.96
Construction inspection	\$ 230,527.65
Compaction testing (2020)	\$ 18,988.50
Total Estimated Construction Costs	\$ 4,172,501.11
Project Management	
CRWP	\$ 297,130.70
USFWS	\$ 93,367.38
USFS	\$ 68,597.00
ADFG	\$ 23,100.00
NOAA	\$ 17,538.00
ADOT	\$ 56,498.33
Audit Costs (2020 only)	\$ 18,517.50
Total Estimated Project Management Costs	\$ 574,748.91
Total estimated costs	\$ 5,688,887.52
Award	\$ 8,152,070.00
Funds remaining	\$ 2,463,182.48