

Galena Emergency Bank Stabilization

Condition of Improvements
31 December 2019
Galena Emergency Bank Stabilization, Alaska
(CWIS No. 075442)

Authorization (1) Section 116 of Public Law 99-190, authorized 19 December 1985, provides authorization for approximately 1200 feet of riverbank protection. (2) Title I of the Energy and Water Appropriations Act of 2001 (Public Law 106-377) and *Consolidated Appropriations Resolution, 2003* (PL 108-7), Division D - Energy and Water Development Appropriations, 2003 provided a total of \$6,000,000 for additional emergency bank stabilization measures.

Table 1

Existing Project	Length ft.
Rock Revetment	1,300
Rock Revetment Extension	2,275

Project Usage The completed work provides protection for the “New Town” Galena, and was built as an extension to the work begun by the State in 1985. Galena is located on the north bank of the Yukon River about 270 miles west of Fairbanks or 325 miles north northwest of Anchorage. Galena serves as the transportation, government and commercial center for the western Interior. All transportation to the city is by water or air.

Progress of Work

1986	Plans and specifications are initiated for the new work.
1987	A Local Cooperation Agreement is developed, and a contract for the work is awarded in July. USACE funds 450 feet of the revetment and the City of Galena fund 850 feet; all work is included in the Corps contract.
1988	The project is physically completed in July.
2001	Plans and specifications are initiated for the project extension.
2003	The project completed in 1988 is inspected in August and found to be in good condition. The threat of erosion at the upstream end will require continued monitoring by locals.
2004	Construction contract for the project extension is awarded in June

Progress of Work

2005	The project extension is physically complete in April.
2010	The inspection found the project to be in good condition with minor repairs needed.
2015	The inspection found the project to be in good condition with minor repairs needed.
2016	The inspection found the project to be in good condition with minor repairs needed.
2017	The inspection was conducted in November to see the revetment during a lower river stage. The project was found to be in good condition with minor repairs needed. Some evidence of continued rock degradation was noted. Erosion of the river bank upstream of the revetment was noted.
2019	Overall condition of the two revetments is satisfactory, except the area of the Phase III revetment that is in need of repair. Both revetments are preventing erosion of the river bank even though there has been armor stone degradation, missing armor stone, and some ice scour. We recommend that the City of Galena inspect the revetments during low water events. Any worsening of previously damaged areas or additional erosion of the river bank material upstream of the key should be noted.

Table 2 Cost to Date

Project	Description	Cost \$
075442	CG Appropriation	5,975,605
	CG Costs	5,975,605
	CG Contributed Appropriation	1,721,200
	CG Contributed Costs	1,721,200

Galena Emergency Bank Stabilization, Galena, Alaska



Aerial of Galena, 2014



Construction of the emergency bank stabilization, April 2005

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Revetment looking downstream, May 2019



Revetment near downstream end, looking upstream, May 2019