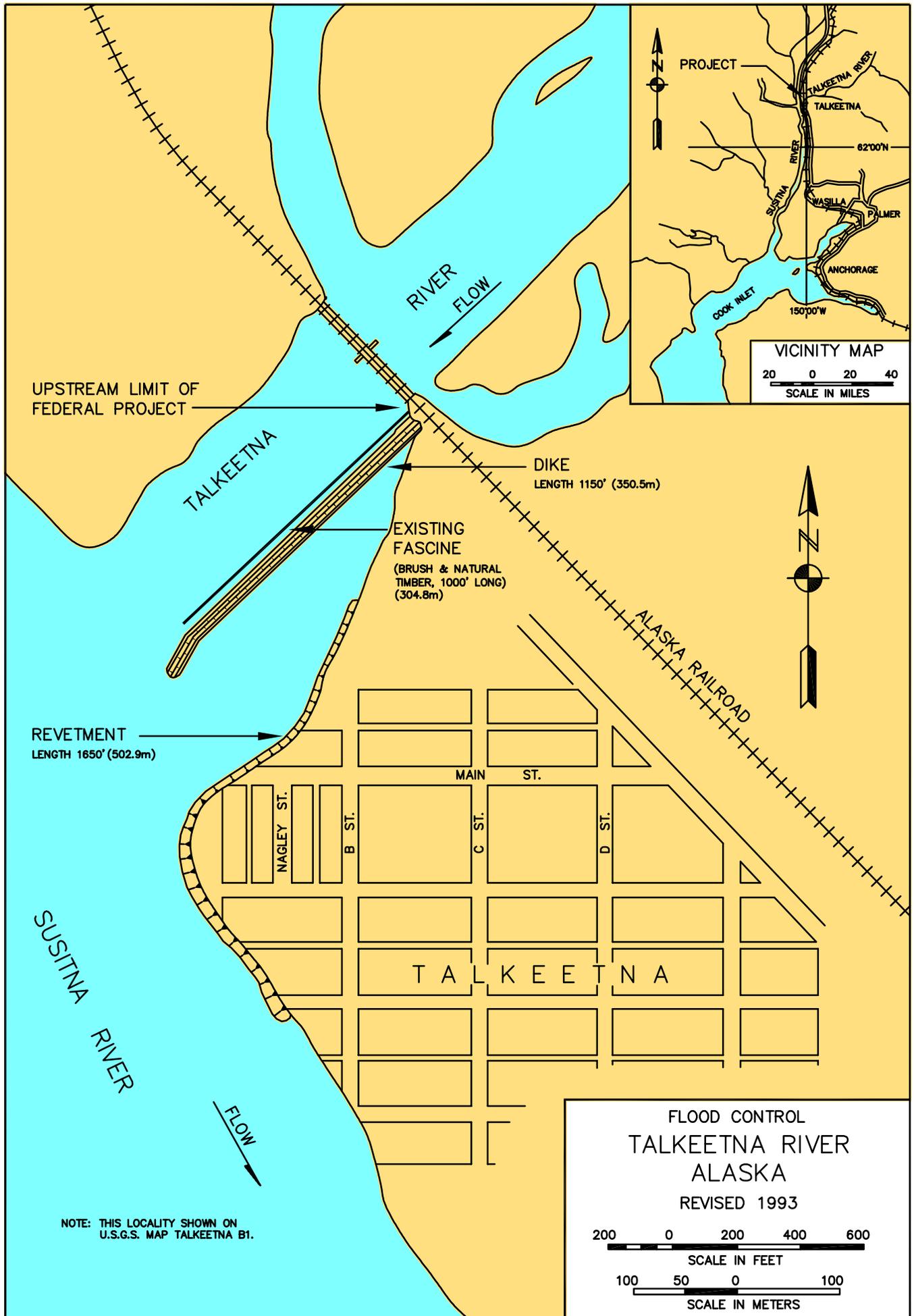


Talkeetna River



Condition of Improvements
30 December 2014
Talkeetna River, Alaska
(CWIS No. 072746)

Authorization Flood Control Act, 3 July 1958 (House Doc. 34, 85th Congress, 1st Session) as adopted, provides for bank protection by rip-rapping 1,660 feet of river bank downstream from the Alaska Railroad bridge and for construction of an armor rock dike 1,200 feet in length to divert river flow from the bank.

Previous Authorization Flood Control Act, 24 July 1946, under Section 14, for emergency bank protection work, as adopted, provides for the stabilization of 1,500 feet of river bank by construction of a brush and natural timber fascine along the southern bank of the Talkeetna River about 1,000 feet in length downstream from the Alaska Railroad bridge.

Table 1

Existing Project	Length ft.	Width ft.	Height ft.
Revetment	1650		
Dike	1150	8 (top)	4

Project Usage The permanent project continues to provide adequate flood protection for the city of Talkeetna.

Progress of Work

1951	Work on the original project begins in March and is completed successfully in May by contract at a cost of \$24,586.
1970	The permanent project carries an "inactive" classification during the economic life of the emergency improvement.
1975	A restudy indicates that the emergency project is no longer adequate. A General Design Memorandum is prepared in February for the existing permanent project.
1979	Construction of the permanent project begins in June, is completed in September, and turned over to the Matanuska-Susitna Borough for operation and maintenance in October. The improvement is subject to periodic inspection by the Corps.

Progress of Work

- 1992 The inspection report indicates the formation of a sand and gravel bar along the original timber fascine.
- 1993 An inspection in September finds no deficiencies in either the original work or the permanent project.
- 1998 The project is found to be in satisfactory operational condition.
- 1999 An inspection in July finds 60 feet of the downstream end of the dike under attack from the Talkeetna River; minor erosion is apparent but not significant.
- 2000 Despite Borough repairs to the downstream end of the dike, an additional area (6' x 100') has suffered erosion upstream of those repairs. Locals have been notified.
- 2001 Repair is made to the dike by local interests. The project is in good condition.
- 2002 The annual inspection finds the project in good condition, June 2002.
- 2003 The Corps' inspector describes the project as being well maintained and in good shape.
- 2004 Corps inspector finds that 150 feet of the downstream section of the dike has significant erosion along the toe and needs repair. The inspector also recommends that vegetation on the main revetment be cut. Local authorities have been notified.
- 2005 Repairs recommended in last year's report were not completed at the time of the September inspection. An additional 20 feet of dike are recommended for armoring. Approximately 100 feet of revetment near 2nd Avenue appears to be undercut; this erosion needs to be monitored. Some repair with armor stone is also recommended at two locations along the revetment top.
- 2006 The Corps' inspection found that the prior year's damage to the toe of the armor revetment along the Talkeetna River segment of the project was well repaired. It was recommended that brush on both the Talkeetna River and the Susitna River segments of the project be cut.
- 2012 A site visit in October found the entire crest of the dike was completely intact with no signs of failure other than some minor scouring. Material was lost along the dike at the toe from 330 to 530 ft south of the railroad bridge and at the southwest end of the dike where it keys into the bank at the confluence of the Susitna and Talkeetna Rivers. A site visit in November found a major growth of trees and brush growing on the training dike and revetment. Conversations with Borough representatives found that the dike was completely submerged during the break-up flooding this year.

Table 2 Cost to Date

Project	Description	Cost \$
072746	CG Appropriation	516,694
	CG Costs	516,694

Talkeetna River, Alaska



Upstream view of the rock revetment and the railroad bridge, October 2014.



Downstream view of the rock revetment, October 2014.