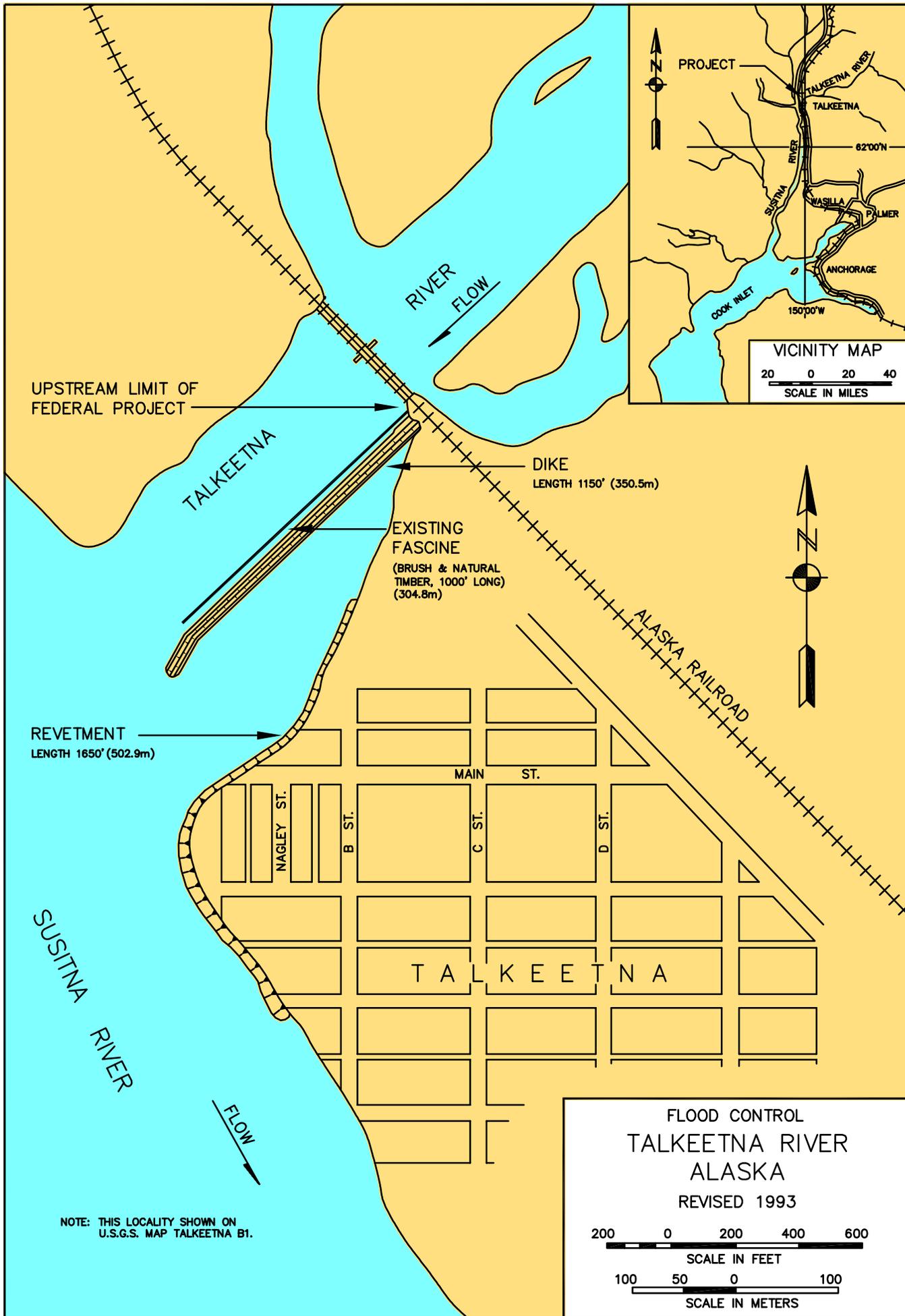


# **TALKEETNA RIVER**



**TALKEETNA RIVER, ALASKA**  
(CWIS NO. 72746)

Condition of Improvement 30 September 2006

**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.

<b>EXISTING PROJECT:</b>	<u>LENGTH</u>	<u>HEIGHT</u>	<u>WIDTH</u>
• Revetment . . . . .	1,650 ft		
• Dike . . . . .	1,150 ft	4 ft	8 ft (at top)

**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.
- 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.

**TALKEETNA RIVER, ALASKA**

30 September 2006

- 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 2<sup>nd</sup> 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.

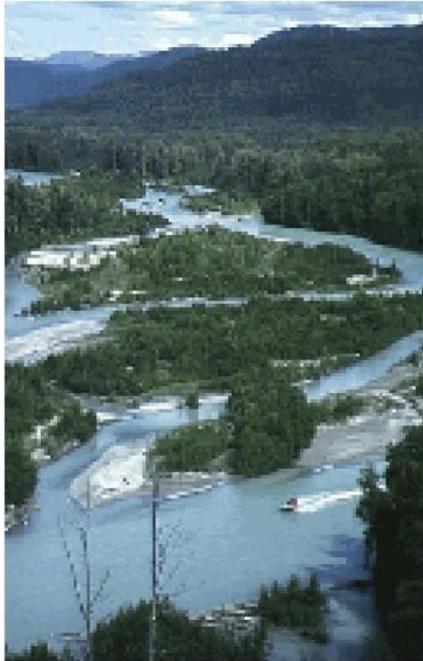
<b>COST TO DATE:</b>	<u>New Work</u>	<u>Maintenance</u>	<u>Emergency</u>	<u>Total</u>
	\$ 516,694	\$ 7,656	\$ 24,586	\$ 548,936

## Talkeetna River at Talkeetna, Alaska



Mt McKinley across the Talkeetna River (top 2006) and Alaska Range over the Talkeetna River where it meets the Susitna River in 2005.

## Talkeetna River at Talkeetna, Alaska



View upstream from above the railroad bridge.



Rafters float the river near Talkeetna.



View downstream along the old fascine.



View along the revetment top. Alaska railroad bridge in background.

## Talkeetna River at Talkeetna, Alaska



Railroad Bridge crossing the Talkeetna River just north of Talkeetna 2008.

## Talkeetna River at Talkeetna, Alaska



Fishing along the Talkeetna near Talkeetna, Alaska in 2008.