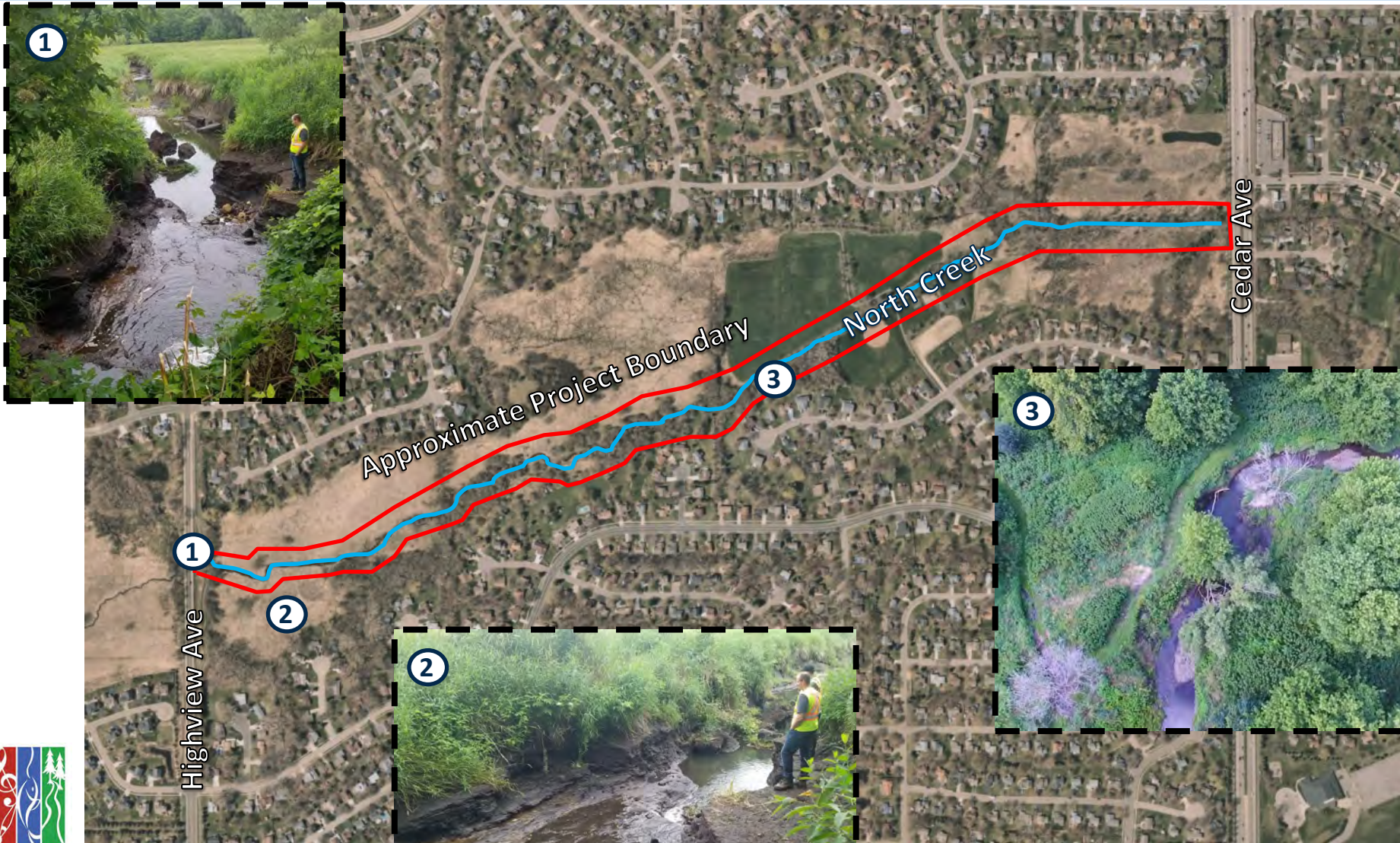




North Creek Restoration

Highview Ave—Cedar Ave

City Project 20-62





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Project Overview

Significant channel erosion in North Creek has resulted in the formation of an abrupt step in channel profile east of Highview Ave, which threatens to undermine the road and recreational trail. The forces that created this erosion in North Creek also created steep channel slopes continuing to Cedar Ave. This partnership project between the City and the Vermillion River Watershed Joint Powers Organization will restore 1.1 miles of the stream by: armoring/stabilizing eroded channel banks, reconnecting the channel to its adjacent floodplain and wetlands, and improving water quality through nutrient load reduction.



Returning Floodplain Storage

Historically, adjacent wetlands provided natural flood attenuation for North Creek; over time, migration of the stream disconnected these features. Removal of accumulated sediment within the stream will re-establish floodplain and add storage capacity. Adding riprap in the form of check dams will raise the channel flow pathway to reconnect the stream to the adjacent wetlands.



Addressing Nutrient Loading

As North Creek's stream banks eroded, a significant amount of sediment and phosphorus were deposited into the channel. Excess phosphorus in streams feeds algae, depletes oxygen levels and degrades aquatic habitat. By stabilizing stream banks, making them less prone to erosion, the North Creek Restoration Project will yield a pollutant reduction of 89 lbs of total phosphorus per year.



Questions about the project can be directed to Mac Cafferty, Environmental Resources Manager at (952) 985-4520 or Kelly Perrine, Environmental Resources Specialist at (952) 985-4524.

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