

MNTU Coldwater Fish Habitat Enhancement and Restoration – HRE 01



Fy2022 Proposal



Restoring long lived tree species to riparian corridors requires clearings to reduce competition



Photo courtesy of TNC

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Protection from animal browse boosts survival



Photo courtesy of TNC

3



Logs from nearby timber sales placed in stream corridors create trout cover now.



Sucker River

4



Desirable riparian forests like this require active forest management



Perched culverts block trout passage to cool water refuges and spawning areas

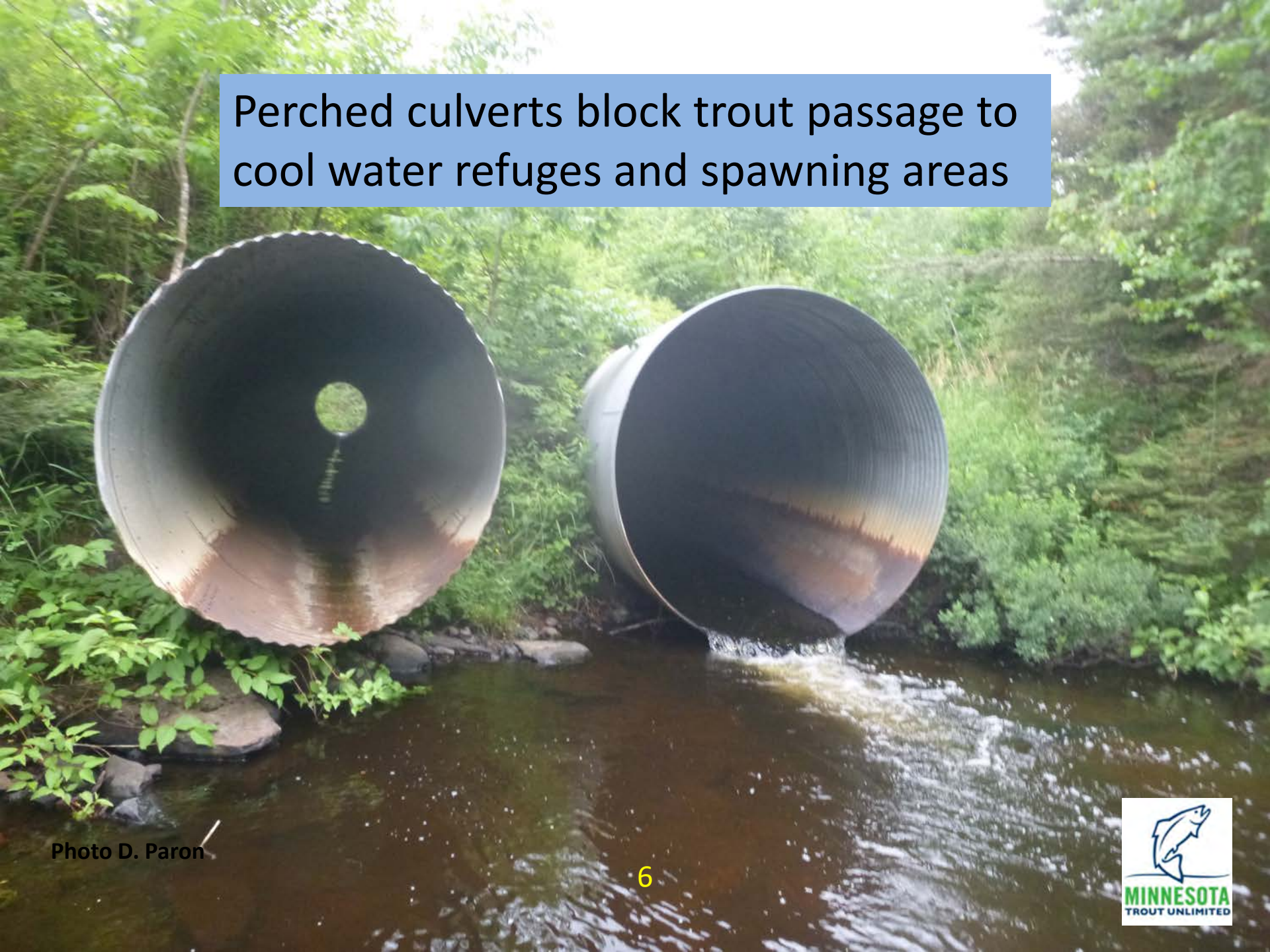


Photo D. Paron

Properly placed culverts restore access to spawning areas and miles of habitat



Design revised by team with 90+ years experience designing, installing and evaluating trout habitat



South Branch Whitewater River

8



Before: 2,000 Cu Yds per year eroding off one bend

Rush Creek

9



9 Yrs After: stable through numerous floods



Rush Creek

10



Restoring stream's access to its floodplain is essential to preserving in-stream habitat



Pine Creek

After

30' Deep Terrace Excavated

Bank Height Formerly
10-12'

Pine Creek

12



After



Pine Creek


13



Before: shallow, unstable split channels lacked depth and cover

Garvin Brook





After: single, stable
channel with depth and
overhead cover habitat

Garvin Brook

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Banks mowed twice in year after installation to promote native plants

Trout Run Creek

16



Modest maintenance extends project life

**Cattle created wallow fixed
Aug 2020 on South Fork Root**



Rush Creek

Photo R. Benjamin

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