

Conservation
District &
Smurfit Berms

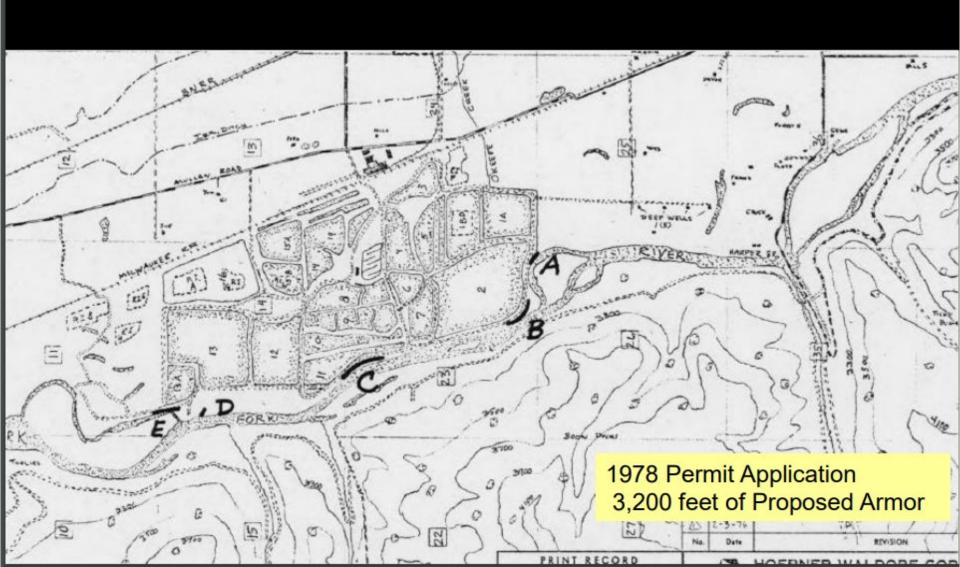
November 2023



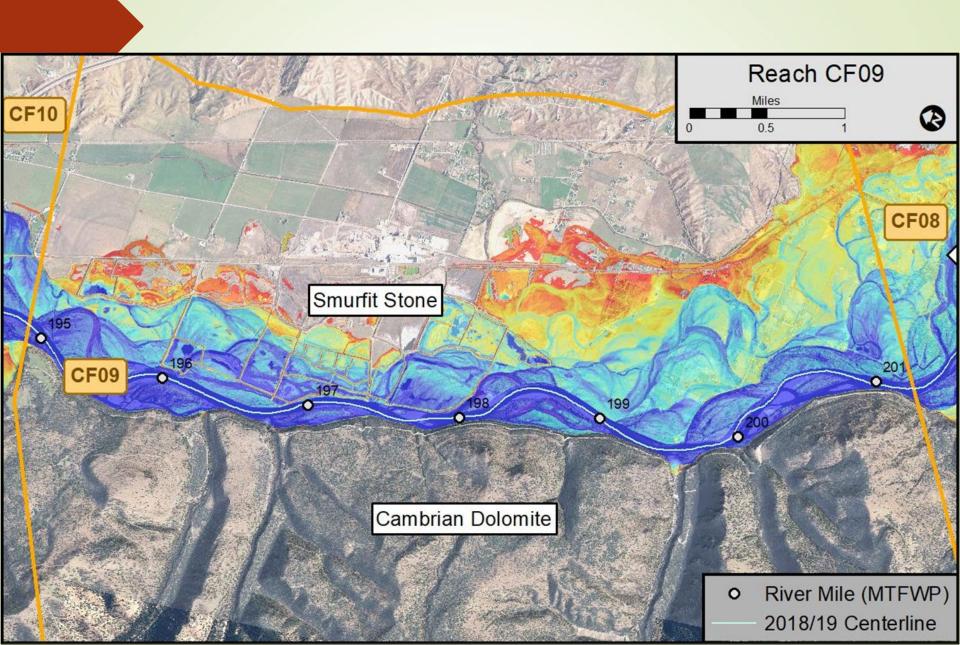
MCA § 75-7-102(2): It is the policy of the state of Montana that its natural rivers and streams and the lands and property immediately adjacent to them within the state are to be protected and preserved to be available in their natural or existing state and to prohibit unauthorized projects, and in so doing, to keep soil erosion and sedimentation to a minimum, except as may be necessary and appropriate after due consideration of all factors involved. Further, it is the policy of this state to recognize the needs of irrigation and agricultural use of rivers and streams of the state of Montana and to protect the use of water for any useful or beneficial purpose as guaranteed by The Constitution of the State of Montana.

Protecting the Ponds

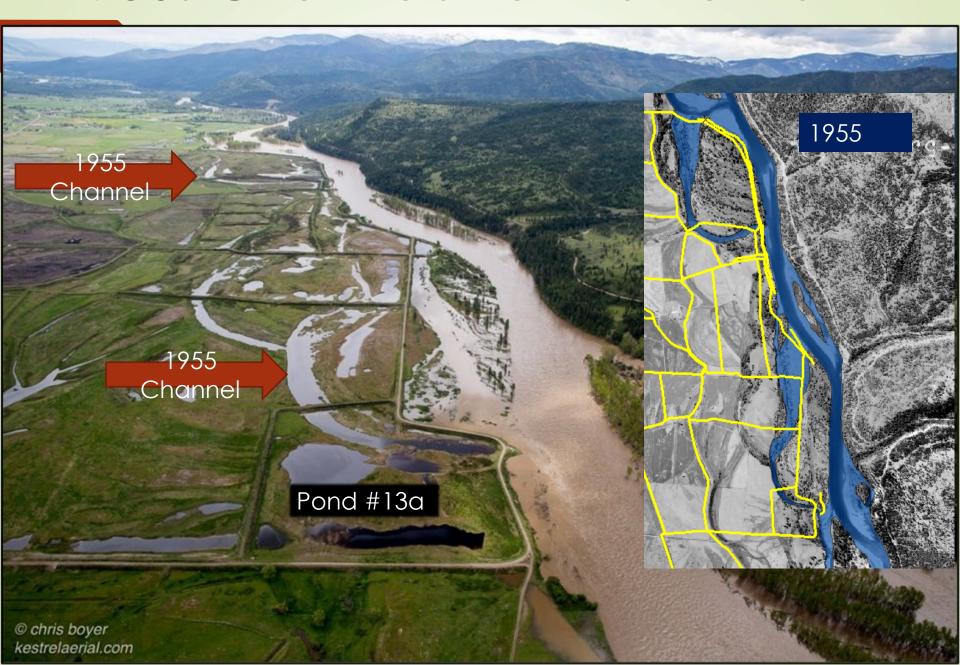
10 maintenance permits to protect ponds from 1974-2007 Bank Armor Construction and/or Repair, Breach Repair, Seepage Treatments



CF09 - Smurfit Stone



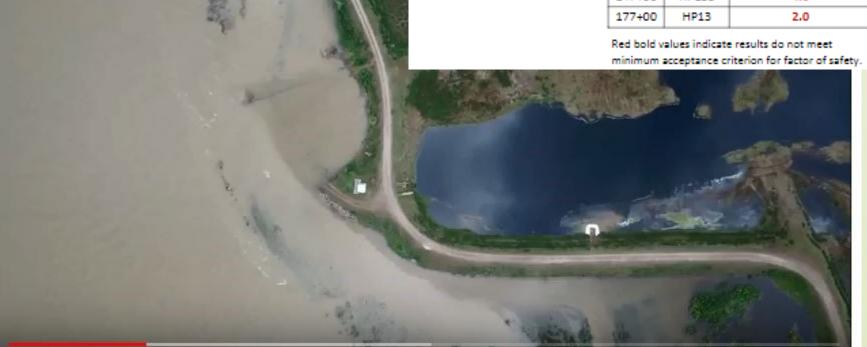
1950s Channels Behind Berms



Boil or "volcano" in Pond 13A May 17, 2018

Table 6-3 Summary of Results for Seepage Analyses

STA	Pond	Steady-State Exit Gradient at Landside Toe
30+00	HP2	0.9
50+00	HP2	0.1
66+00	HP2	0.4
74+00	HP7	0.1
94+0	HP11	0.2
122+00	HP12	0.3
147+00	HP13a	4.0
177+00	HP13	2.0



High flow velocities against ponds Repeated maintenance is necessary



Flow Against Pond #2

~70 ft of migration into island 2017-2019
Increasing pressure



Pond 2 Berm Repairs

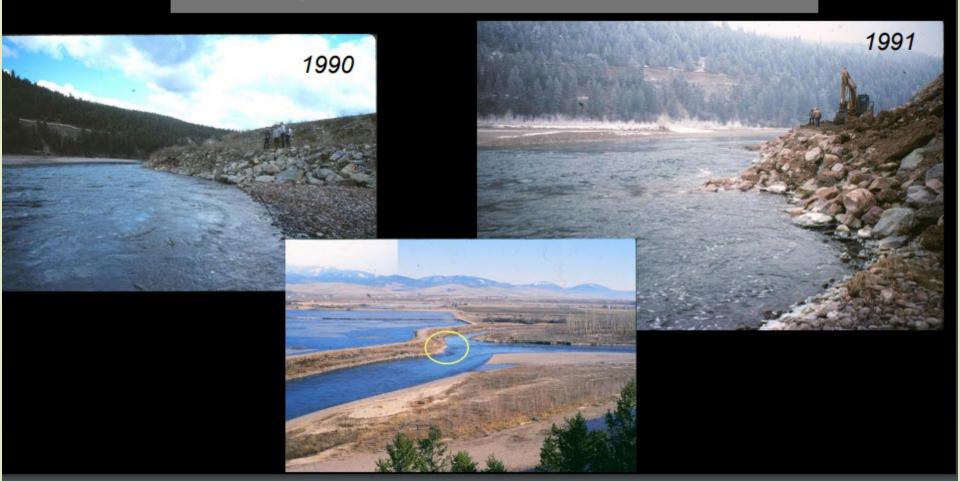
1976: 300 feet of riprap west side of Pond 2 berm

1978: 1,400 feet of repair south and west Pond 2 berms

1985: 500 feet of riprap west side of Pond 2

1990: Two barbs on river side of Pond 2 (riprap had failed)

2001: Emergency repair of Pond 2 berm (leak)



Pond 11

- 300 feet of riprap in 1976
- 1,600 feet of riprap in 1978
- Little channel movement so river is constantly working on the armor



November 7, 2022 Letter

The berms may be maintained while different remedies are debated and the site continues through the Superfund process – the final remedy and the Record of Decision, however, cannot include the maintenance and upkeep of the berm in perpetuity.

Questions?

Tim Hall, Chair Missoula Conservation District