### Mat-Su Borough Fish Passage Program 2024

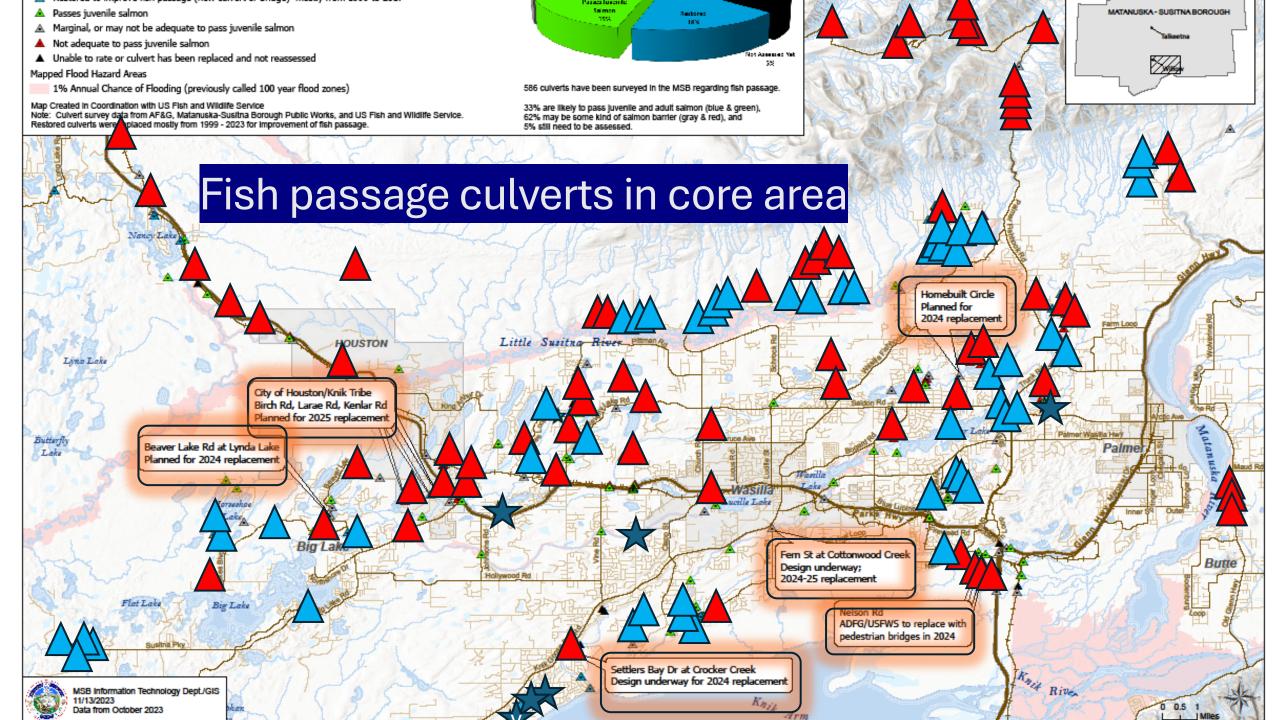


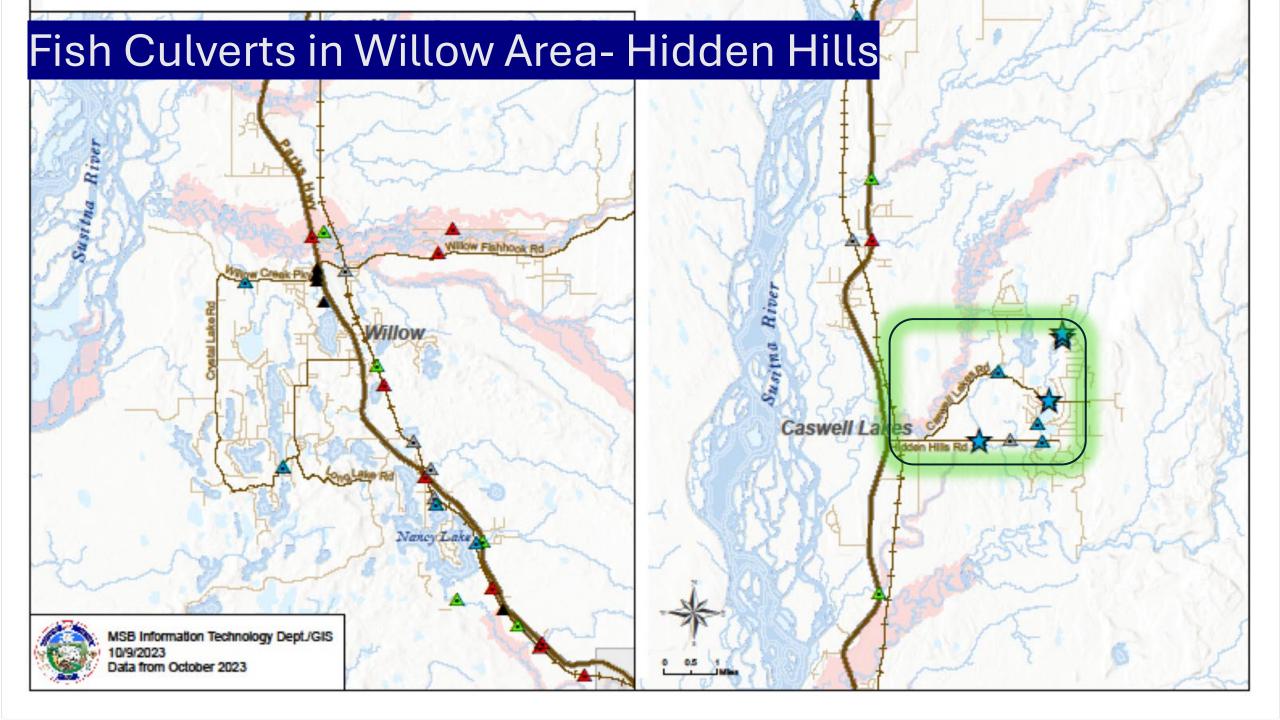


#### **Topics**

- Locations of Culverts in the Borough
- Culverts Ratings and Upgrade Status
- 2023 Projects
- 2024 Project Settler's Bay Drive
- Future Projects
- Partnerships and Opportunities

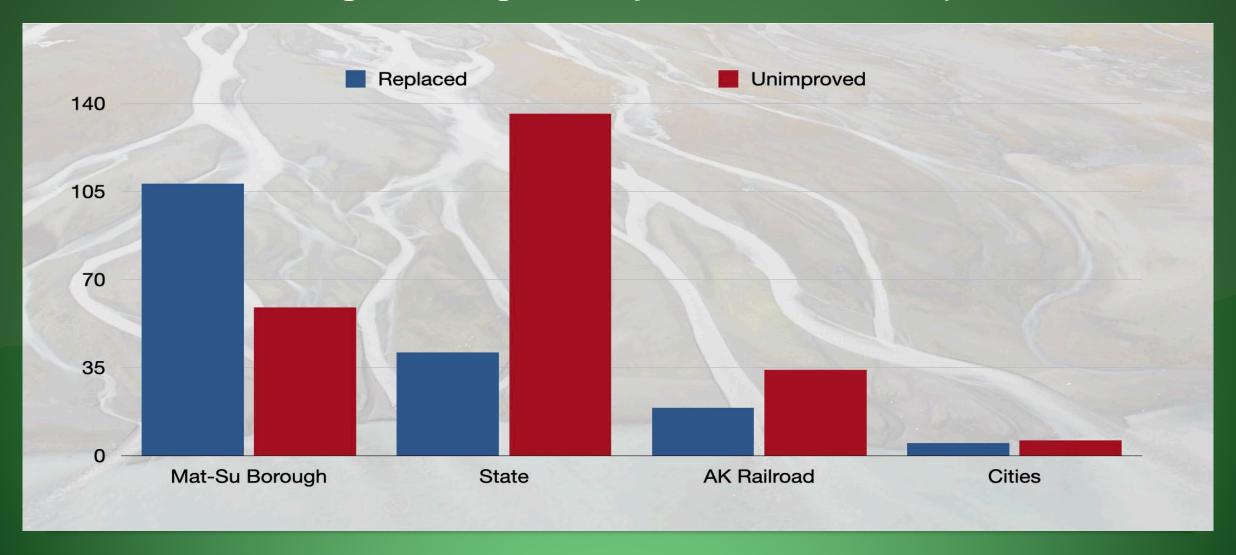






#### Culverts Ratings and Upgrade Status

#### Mat-Su Borough leading the way on fish culvert replacement



### 2023 Fish Passage Projects

- Recent years focused on Settler's Bay Area and the Caswell Creek watershed.
- Replaced culverts on O'Brien Creek and Caswell Creek at Hidden Hills in 2022/2023



### 2024 Hidden Hills fish passage replacement







# 2024 Settler's Bay Drive fish passage peplacement

- Overview replaced a perched culvert at the outlet of an impounded swamp. Lowered impounded lake level about 3 feet
- Perch removed by constructing an extended stream channel at outlet
- New culvert is aluminum arch pipe (insert size here)
- Low flow channel
- Construction highlights
  - Diversion with super sacks did an adequate job, took some work to set up on lake side
  - Utilities left in place during construction incl. except for water line at culvert depth

# 2024 Settler's Bay Drive Fish Passage Replacement

- Construction highlights
  - Meier Excavation 1st timers
  - Diversion with super sacks did an adequate job, took some work to set up on lake side
  - Utilities left in place during construction incl. except for water line at culvert depth.
  - Used temporary bypass culvert during construction instead of pumping – ADF&G required open fish passage during construction.
  - Coir logs used in lieu of willows due to willows blooming before installation. Willows planned for spring '25.

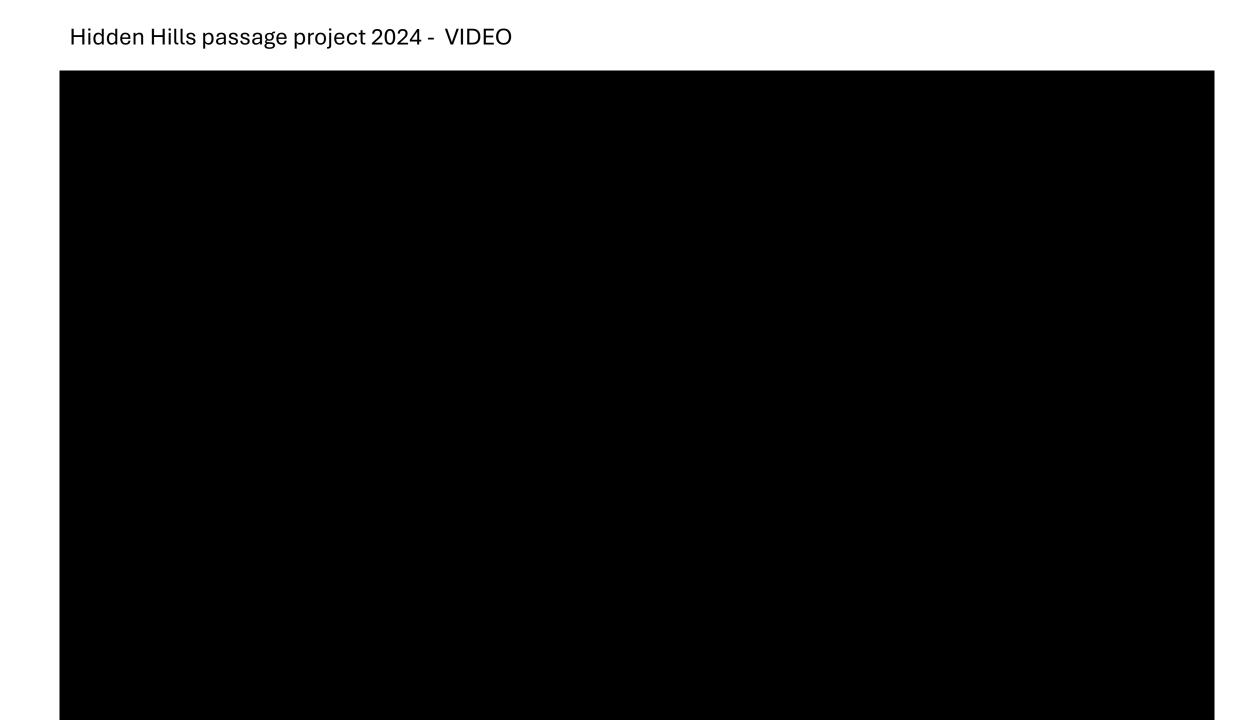






#### Upcoming Fish Habitat Projects

- Cottonwood Creek at Fern Street in design phase
- Cottonwood Creek at Homebuilt Circle design phase
- Lynda Lakes at Beaver Lake Road postponed indefinitely due to pike infestation
- Cheri Lake tributary to Meadow Creek at three City of Houston Roads
- Anderson and Kings Lakes applied for grant funding





#### Partnerships Matter

Many of these projects are not possible without technical and financial assistance. Currently, the Borough is partnering with:

- City of Wasilla on Fern Street City provided match funding, MSB grant and project management
- Knik Tribe and City of Houston Knik Tribe is providing grant management, MSB providing design and construction management
- Chickaloon Tribe working with tribe to potentially replace culverts in Buffalo Mine area
- ADF&G technical and grant writing assistance, AKSSF funding
- USFWS technical and grant assistance and field work, project funding
- DOT&PF and Wasilla partnering on stormwater planning to protect water quality
- Great Land Trust purchased Settler's Bay land directly adjacent to Crocker Creek in 2020 and transferred to the Borough. It is now a park with a protected stream bank on one side.

