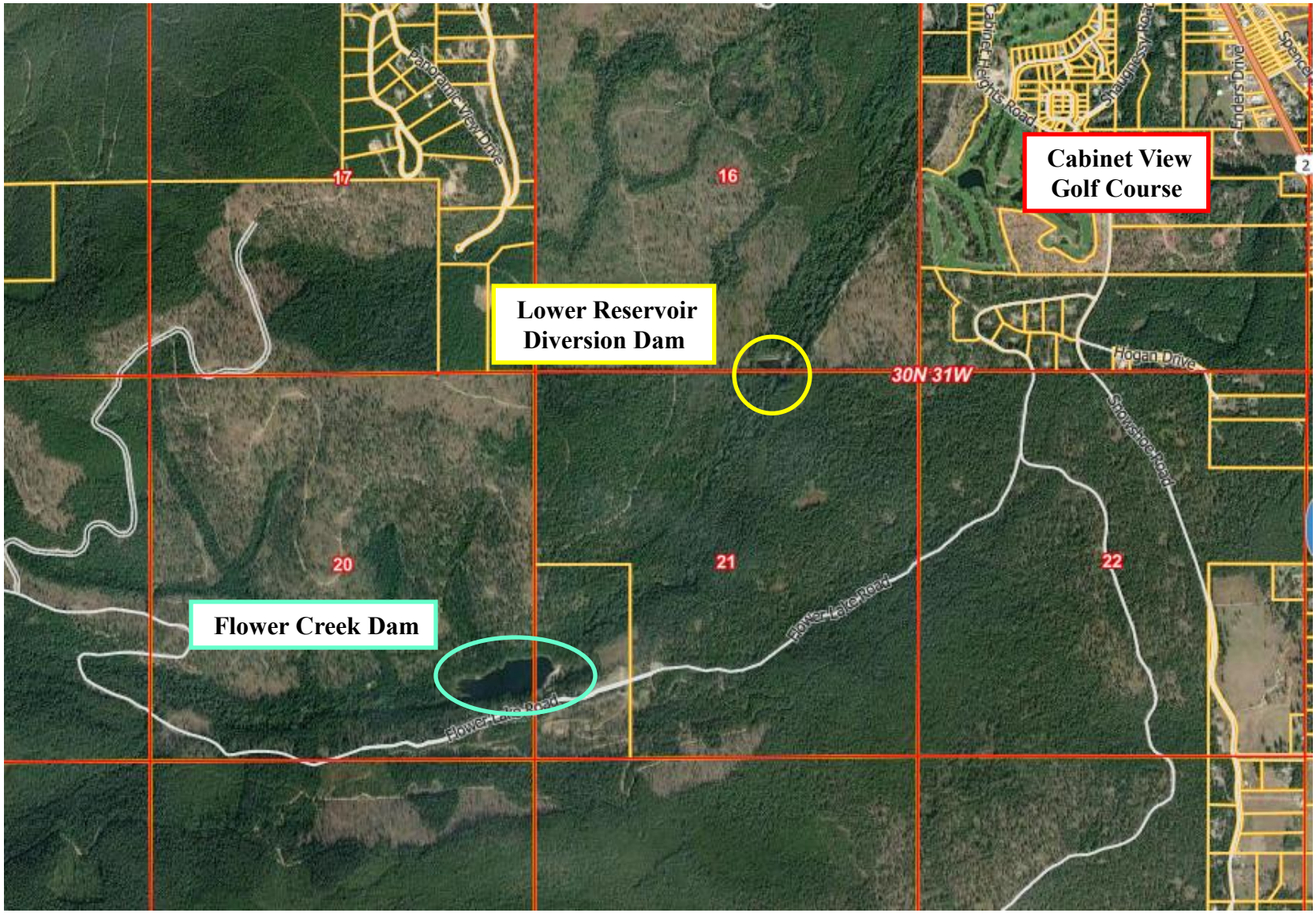
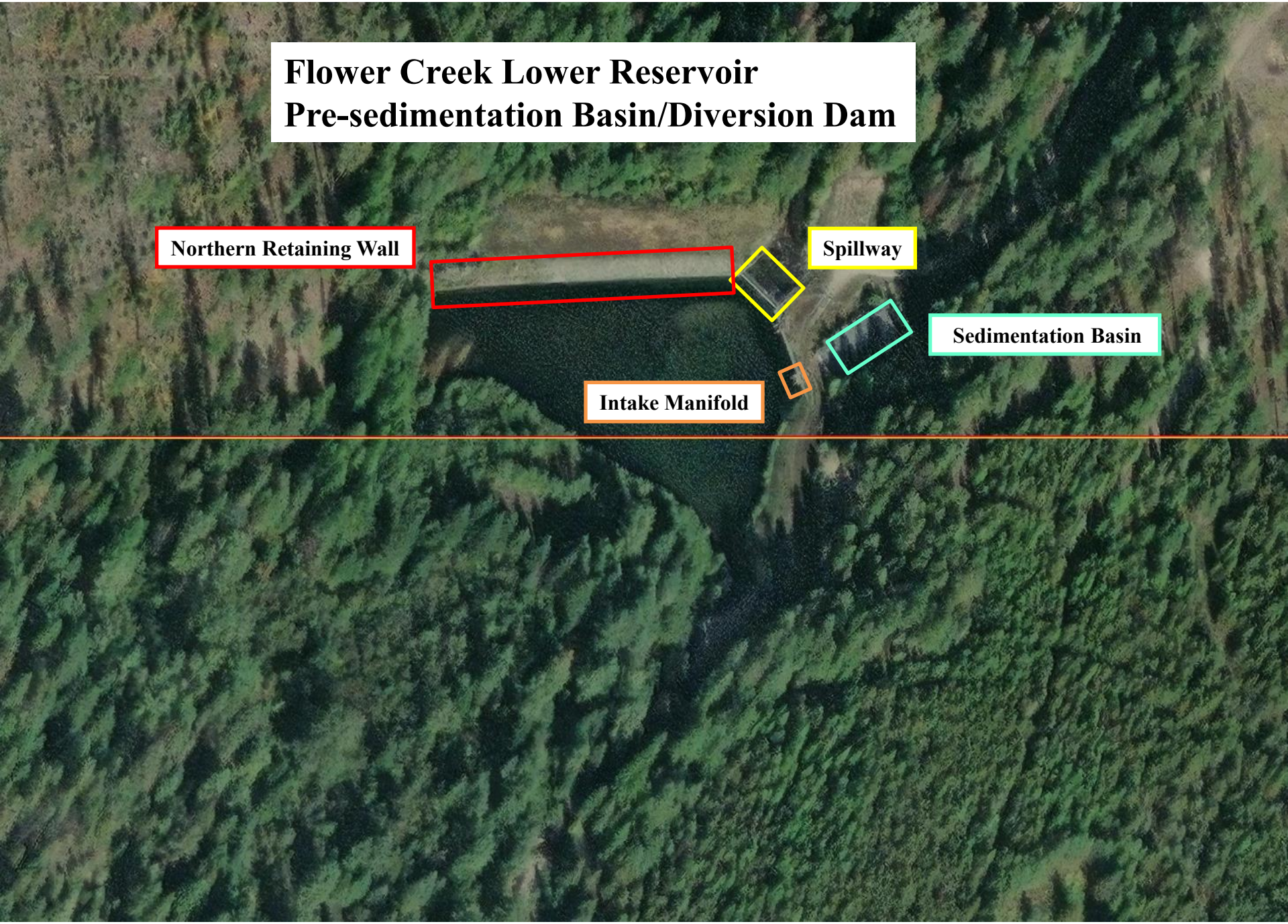
Flower Creek Dam and Lower Reservoir/Diversion Dam

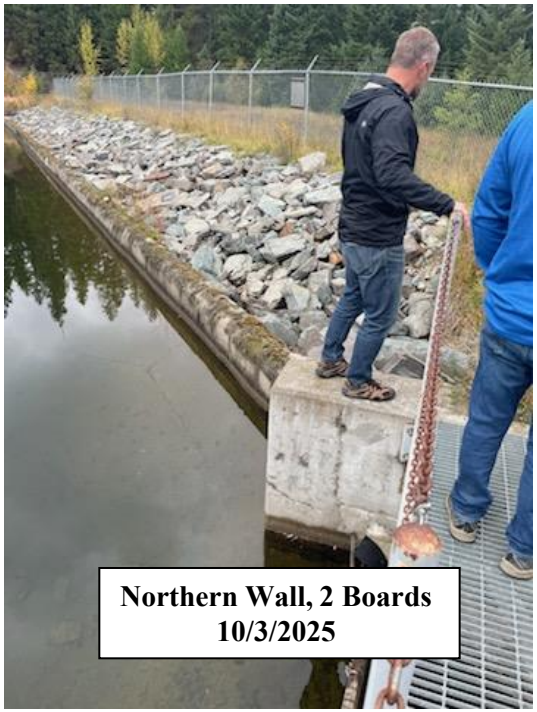



Flower Creek Lower Reservoir
Pre-sedimentation Basin/Diversion Dam
Northern Retaining Wall
Spillway
Sedimentation Basin
Intake Manifold

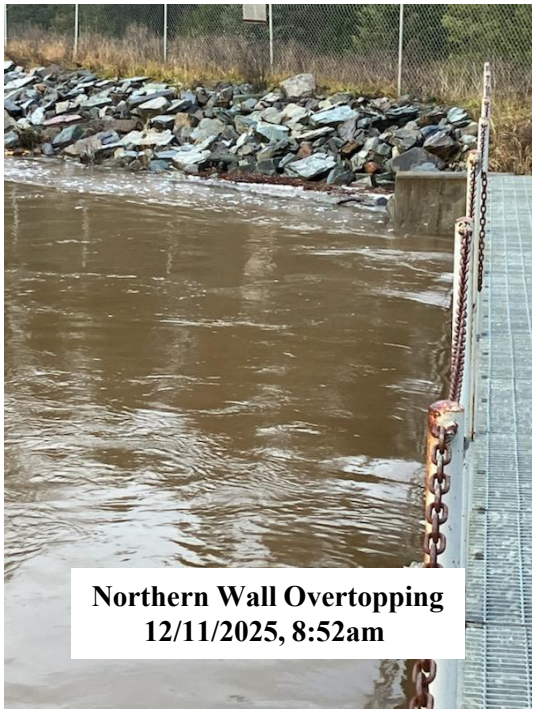
Spillway October 2025

Reservoir November 2025

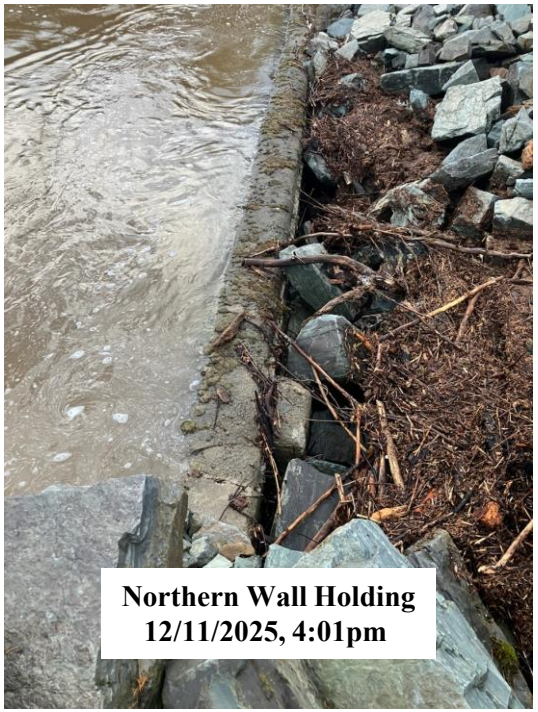
Lower Reservoir Northern Retaining Wall



Northern Wall, 2 Boards
10/3/2025

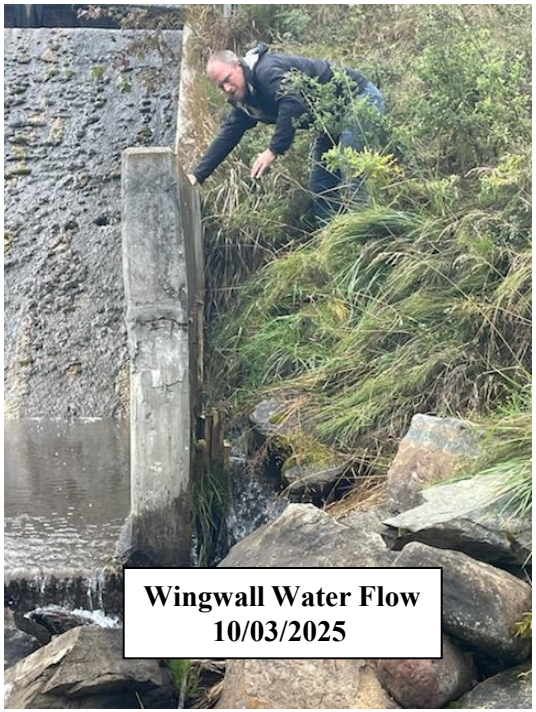


Northern Wall Overtopping
12/11/2025, 8:52am

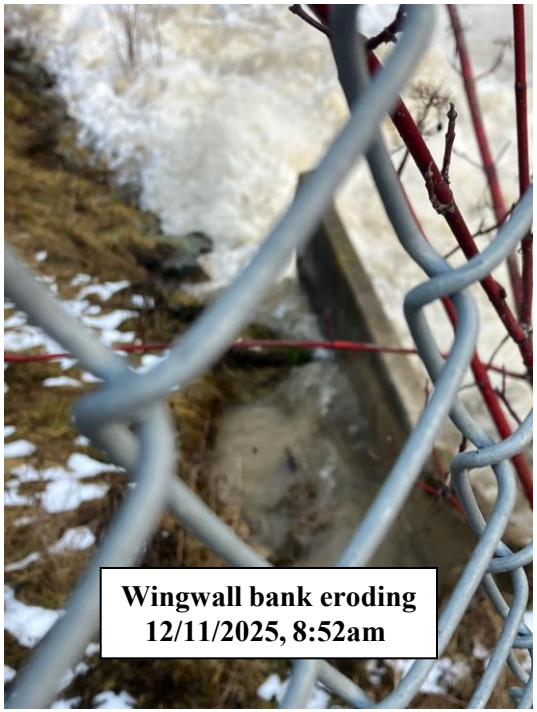


Northern Wall Holding
12/11/2025, 4:01pm

Lower Reservoir Spillway



Wingwall Water Flow
10/03/2025

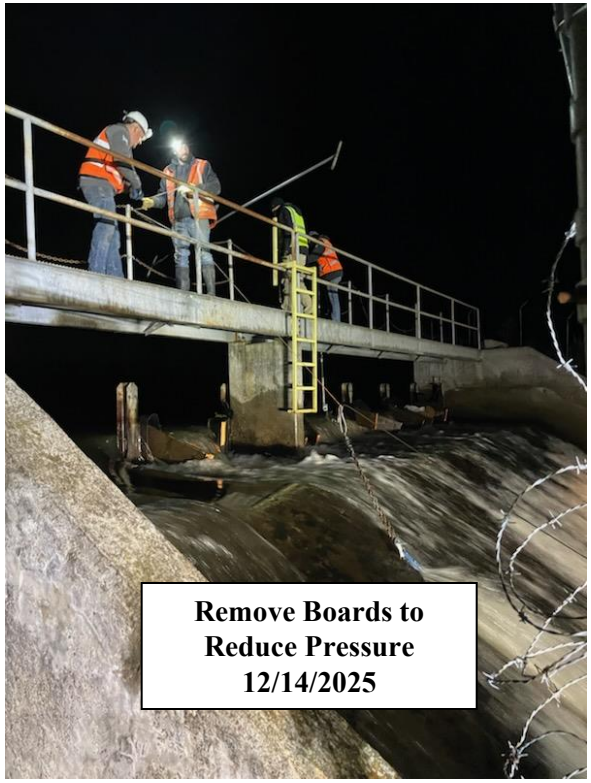


Wingwall bank eroding
12/11/2025, 8:52am

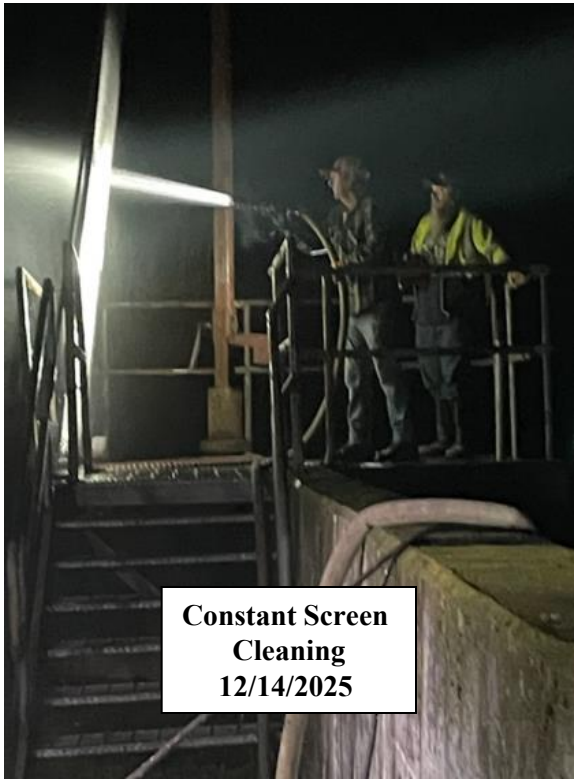
Wingwall bank flow
12/12/2025, 2:56pm

Emergency Protective Measures

Assess Damage to Northern Wall 12/14/2025

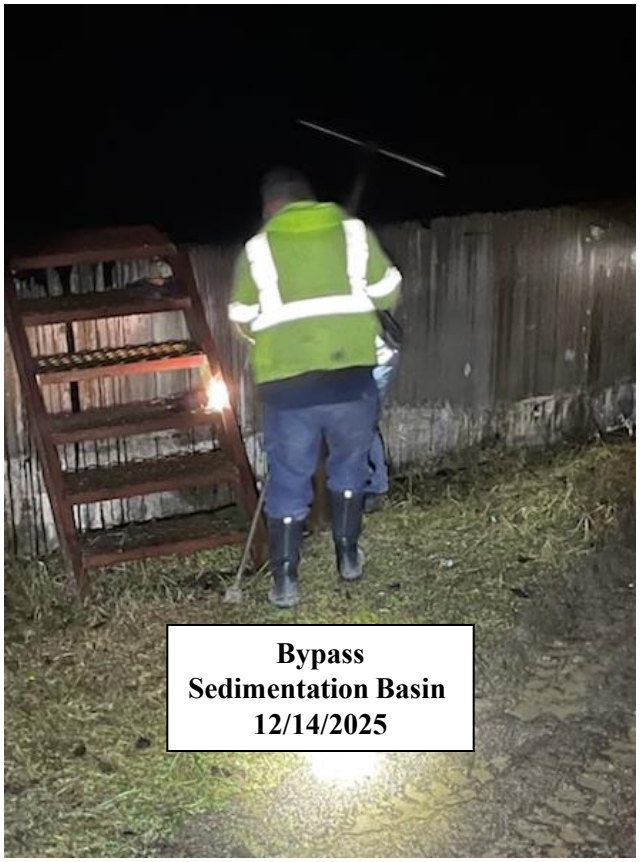


Remove Boards to Reduce Pressure 12/14/2025

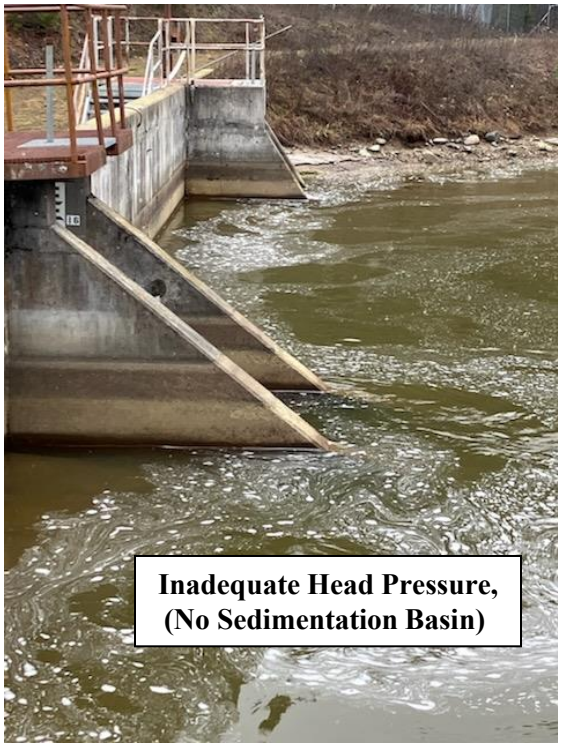


Constant Screen Cleaning 12/14/2025

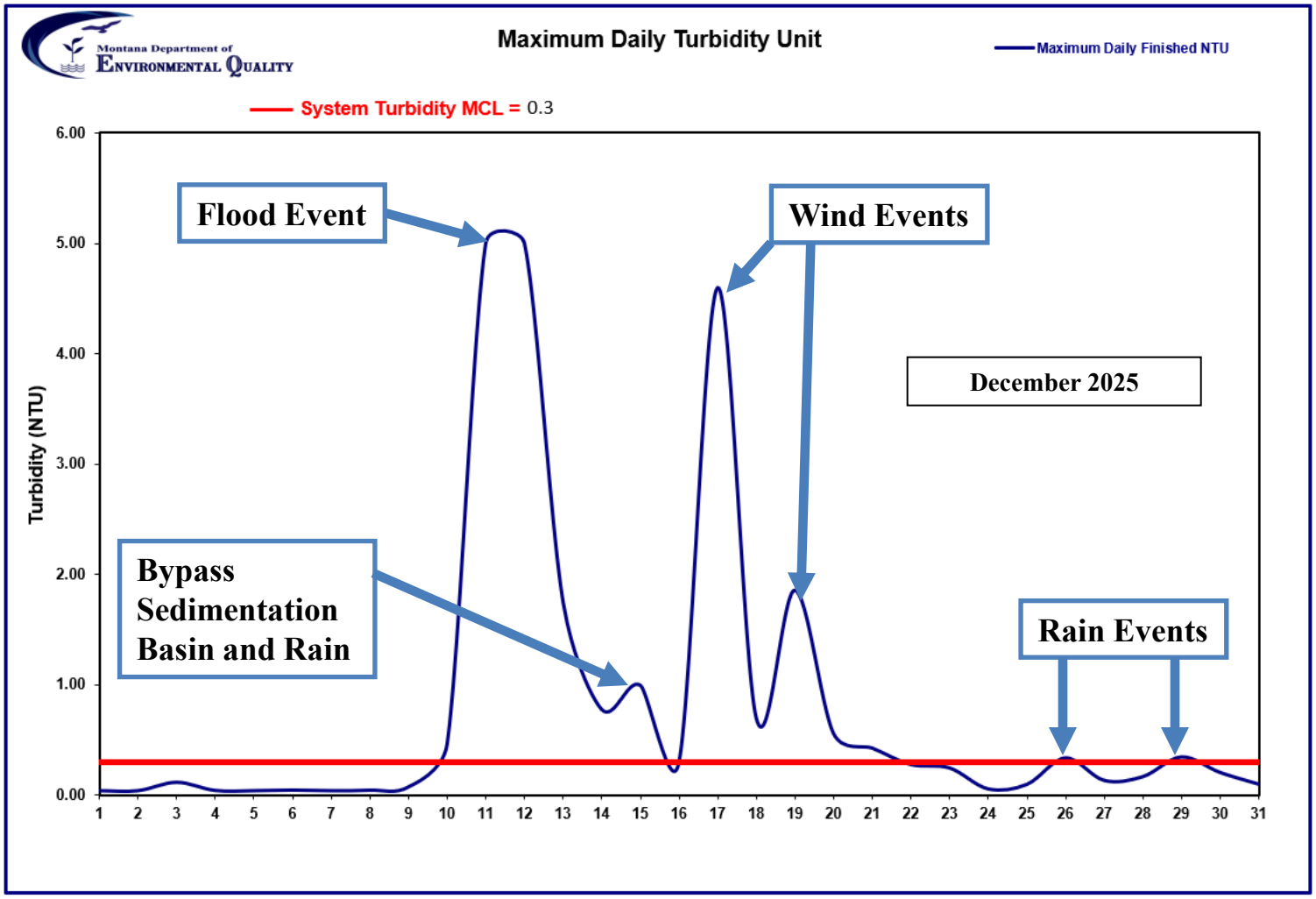
Emergency Protective Measures



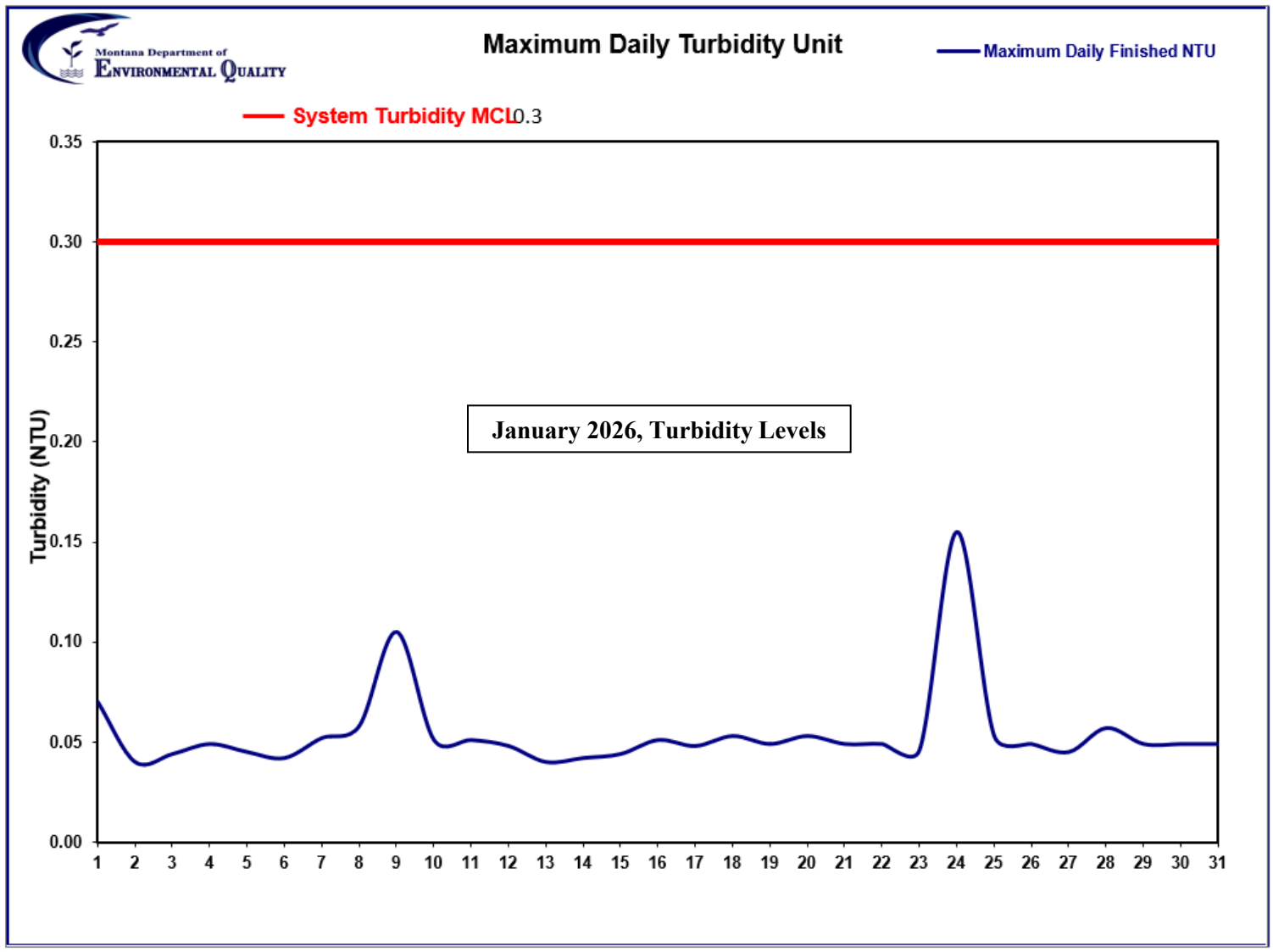
Emergency Protective Measures
Negative Effects



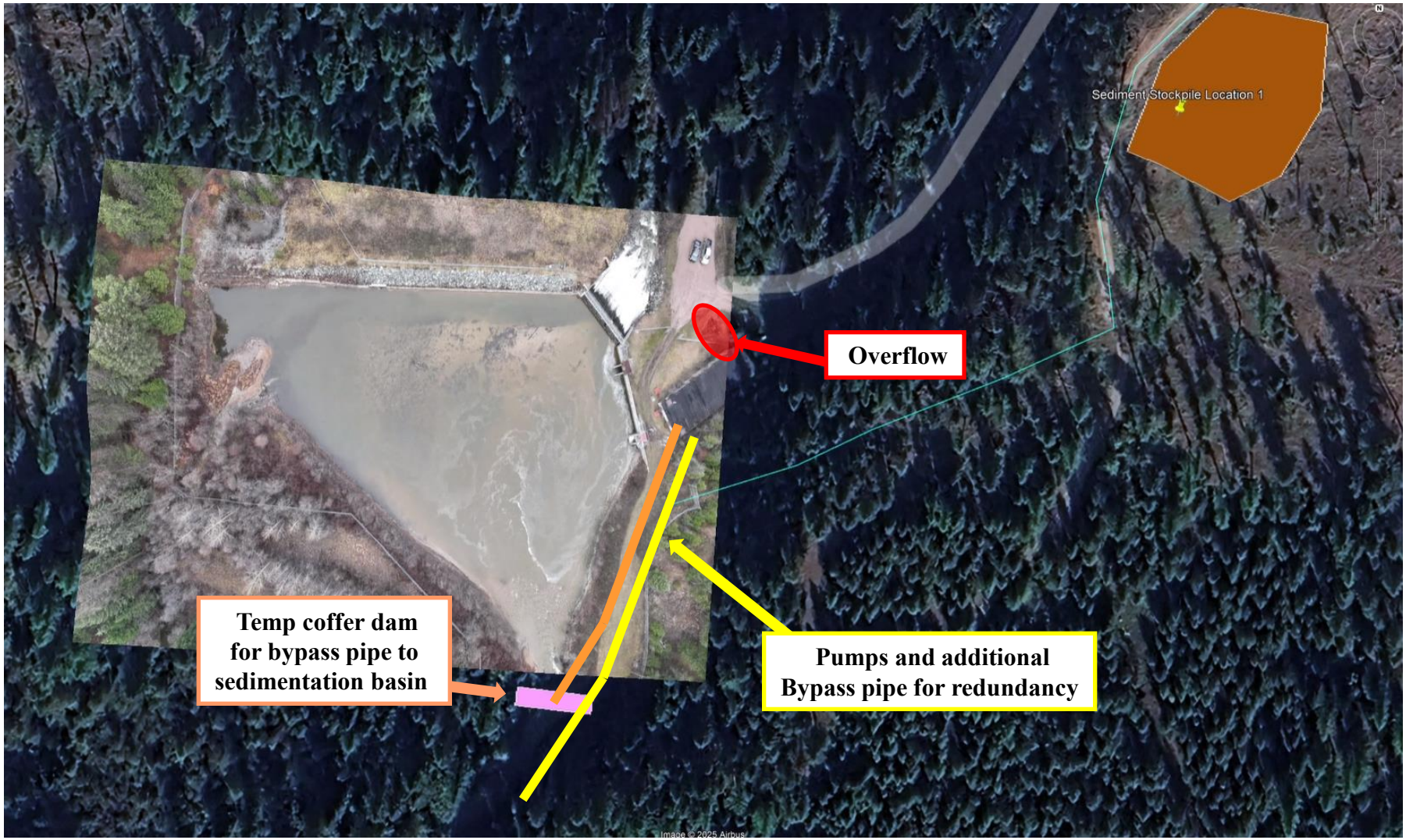
Emergency Protective Measures
Negative Effects



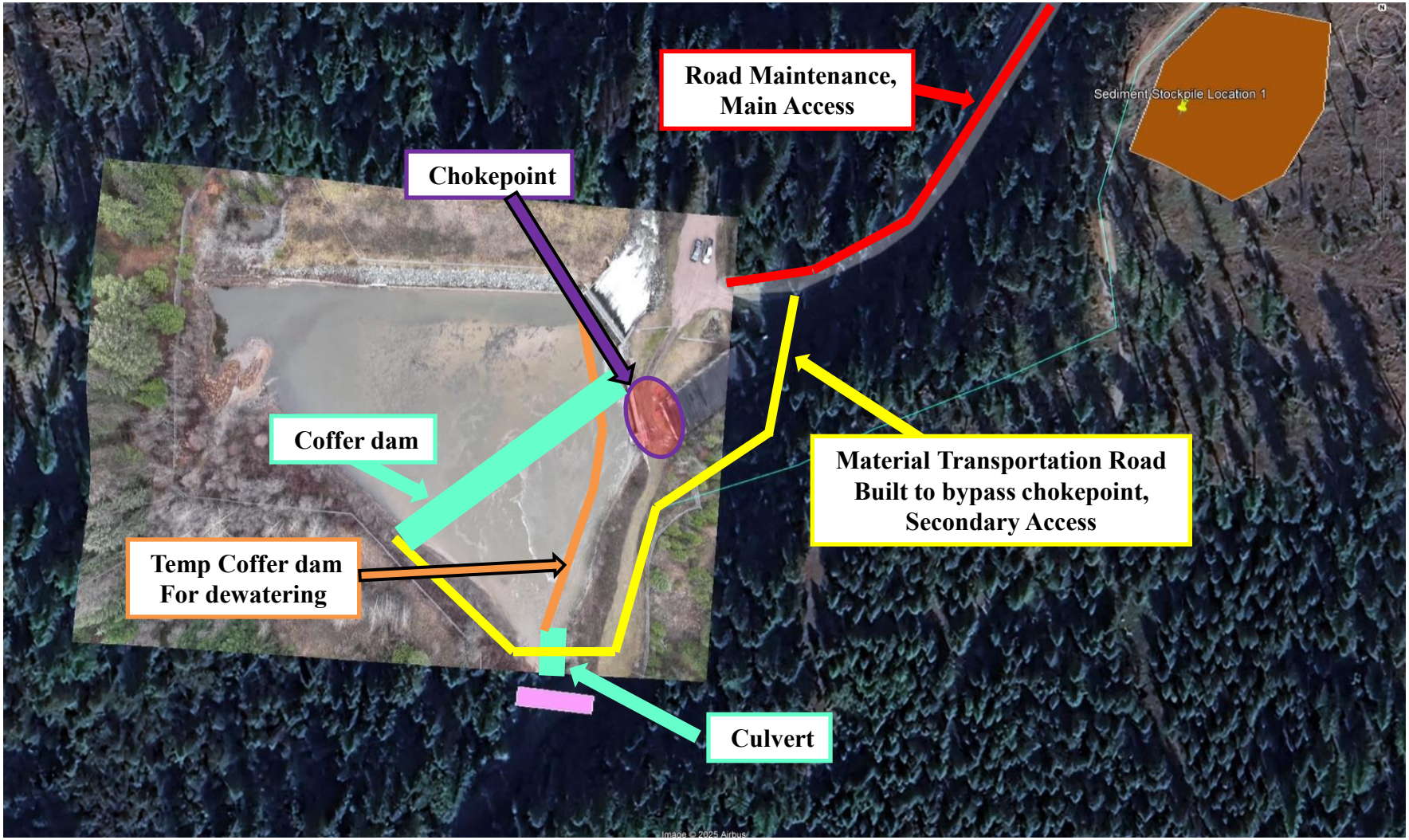
Emergency Protective Measures
Solutions/Actions



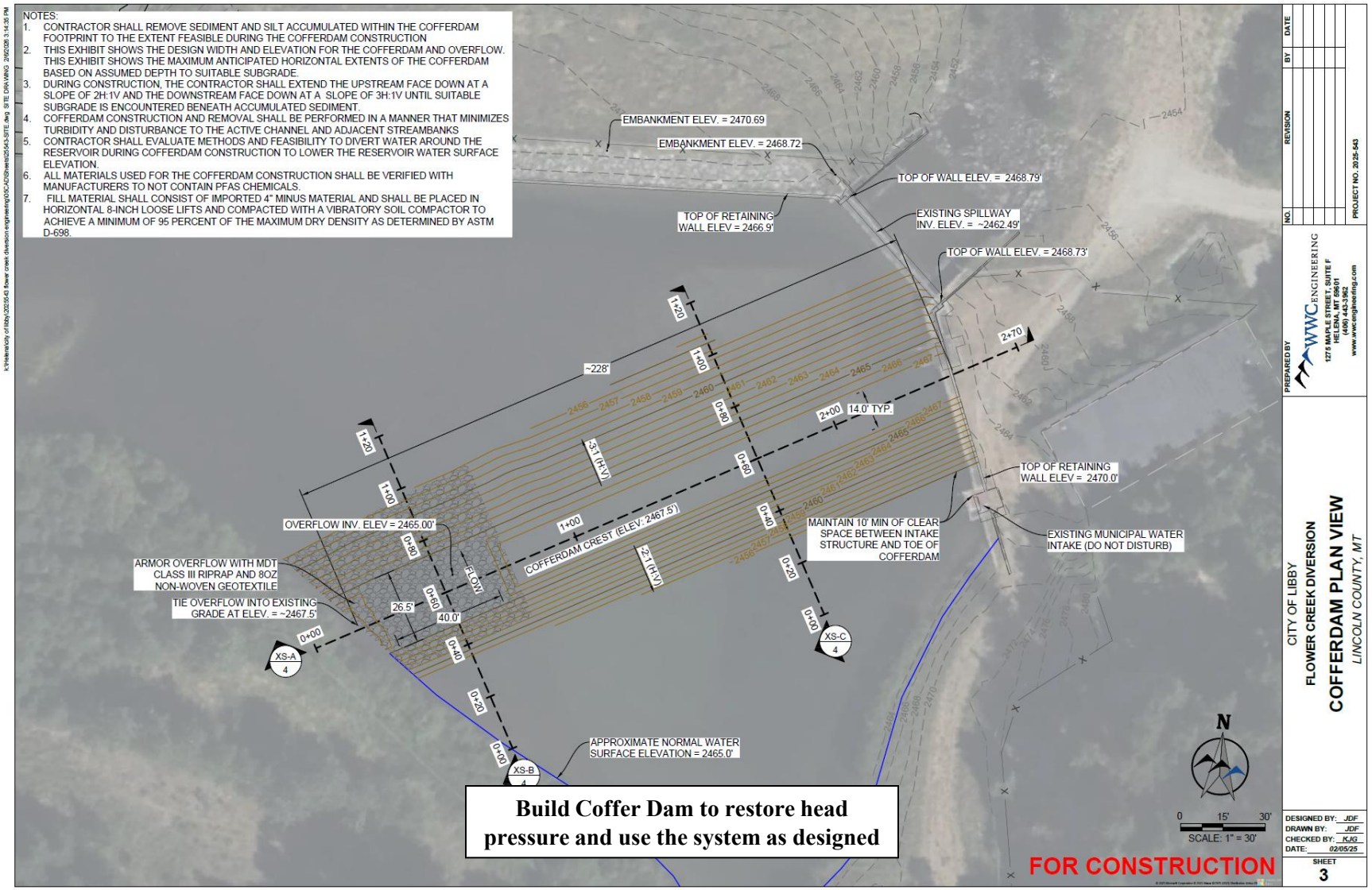
Emergency Protective Measures
Solutions/Actions



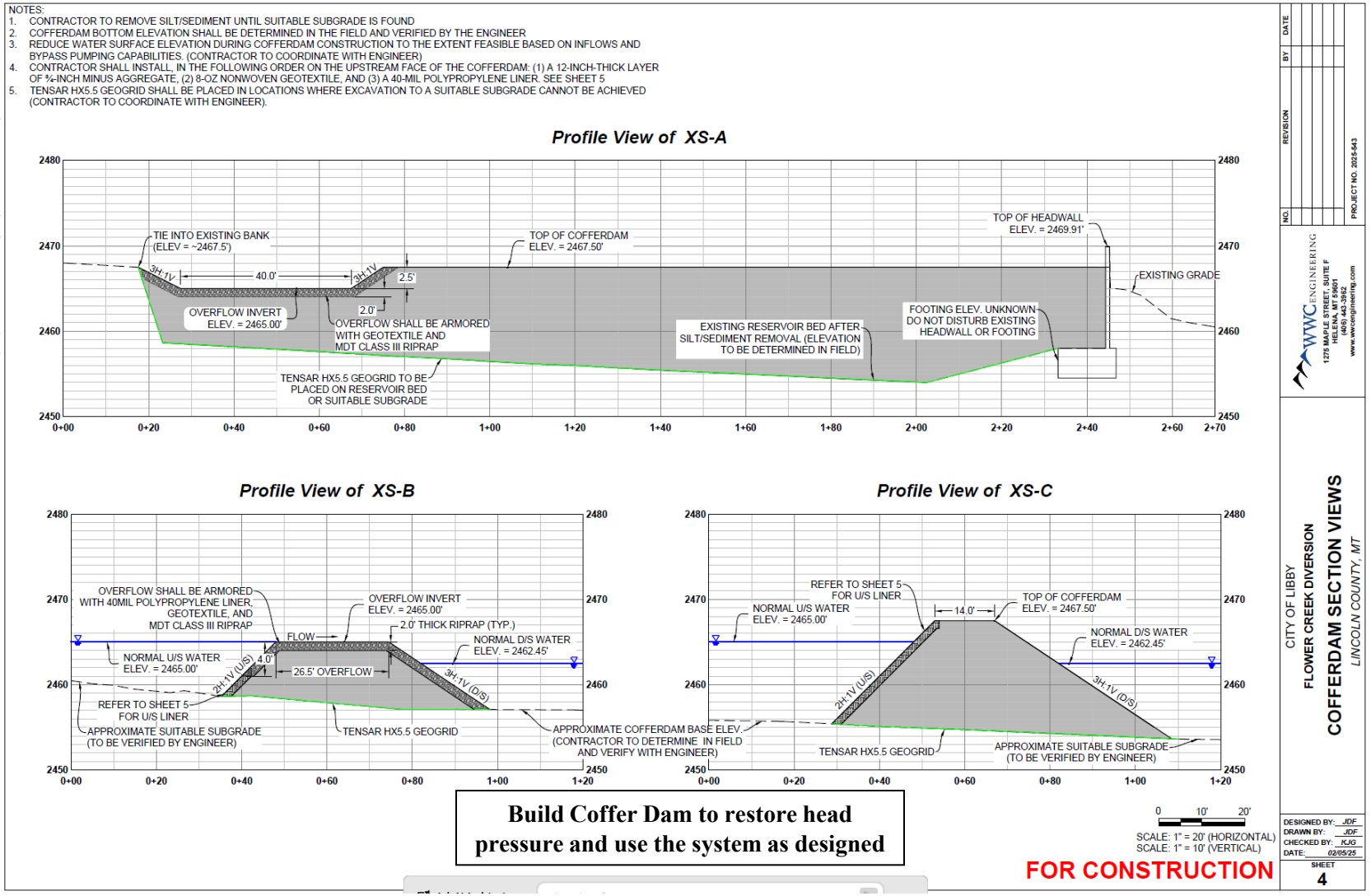
Emergency Protective Measures
Solutions/Actions



Emergency Protective Measures
Solutions/Actions

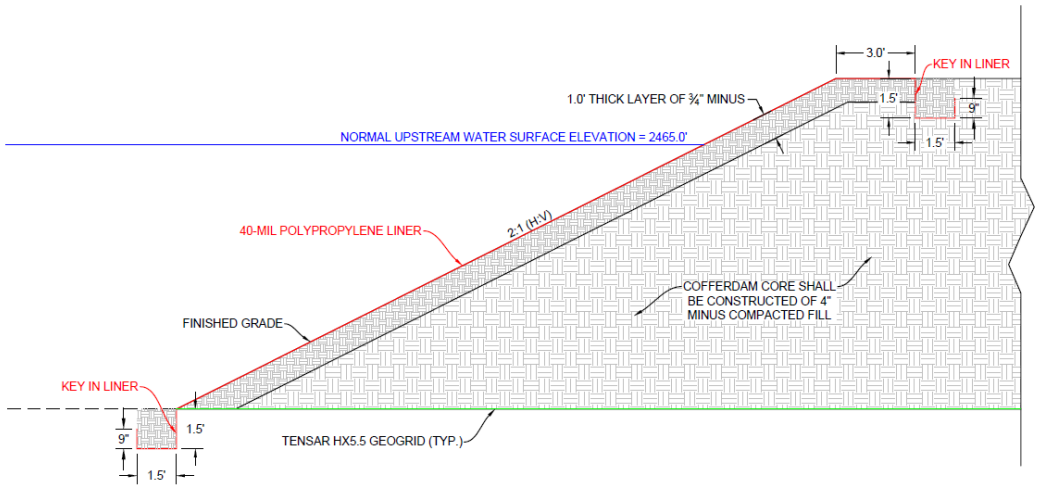


Emergency Protective Measures
Solutions/Actions



Emergency Protective Measures
Solutions/Actions

NOTES:
1. REMOVE ANY PROTRUDING OR JAGGED MATERIAL FROM LINER ANCHOR TRENCH BEFORE PLACING LINER.
2. ANCHOR TRENCH SHALL BE BACKFILLED WITH ¾" MINUS MATERIAL AND COMPACTED TO 95% STD. PROCTOR
3. EXCESS 40-MIL POLYPROPYLENE LINER BEYOND WHAT IS NEEDED FOR THE ANCHOR TRENCH AT THE UPSTREAM TOE SHALL BE DRAPED ON THE RESERVOIR FOOTPRINT UPSTREAM FROM THE COFFERDAM TO FURHER LIMIT SEEPAGE
4. CONTRACTOR SHALL SECURE THE 40-MIL POLYPROPYLENE LINER TO THE EXISTING CONCRETE HEADWALL ON THE EAST SIDE OF THE COFFERDAM.



1/5 UPSTREAM COFFERDAM LINER
SCALE: NOT TO SCALE

Build Coffer Dam to restore head pressure and use the system as designed

FOR CONSTRUCTION

NO. | REVISION | BY | DATE

PROJECT NO. 2025-543

PREPARED BY
WWC ENGINEERING
1275 MAPLE STREET, SUITE F
HELENA, MT 59601
(406) 443-3962
www.wwcengineering.com

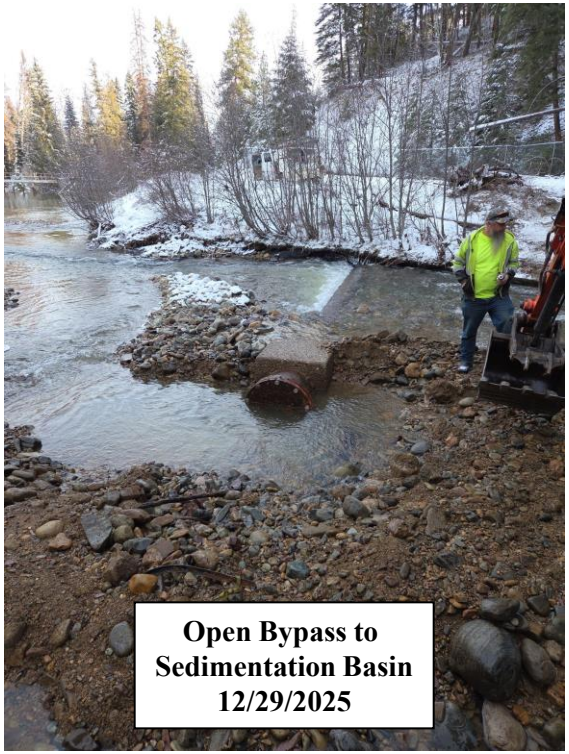
CITY OF LIBBY
FLOWER CREEK DIVERSION
DETAILS
LINCOLN COUNTY, MT

DESIGNED BY: JDF
DRAWN BY: JDF
CHECKED BY: KJG
DATE: 02/05/25

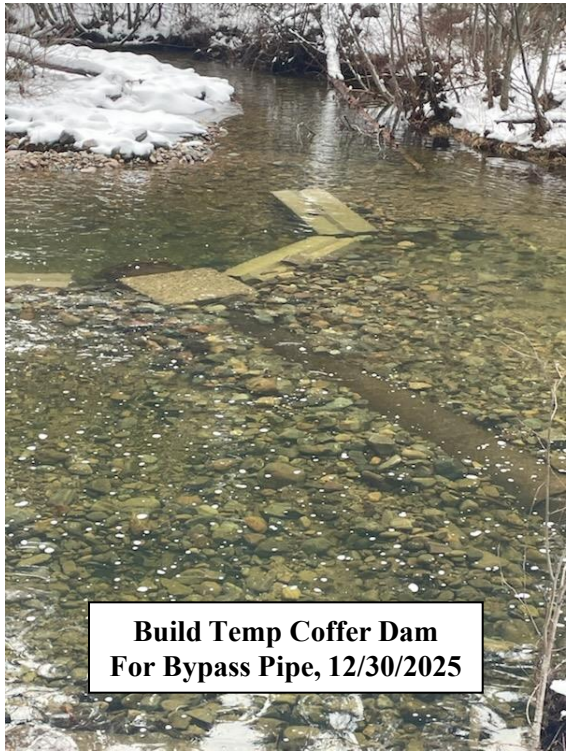
SHEET 5

Emergency Protective Measures
Solutions/Actions

Road Maintenance
12/15/2025

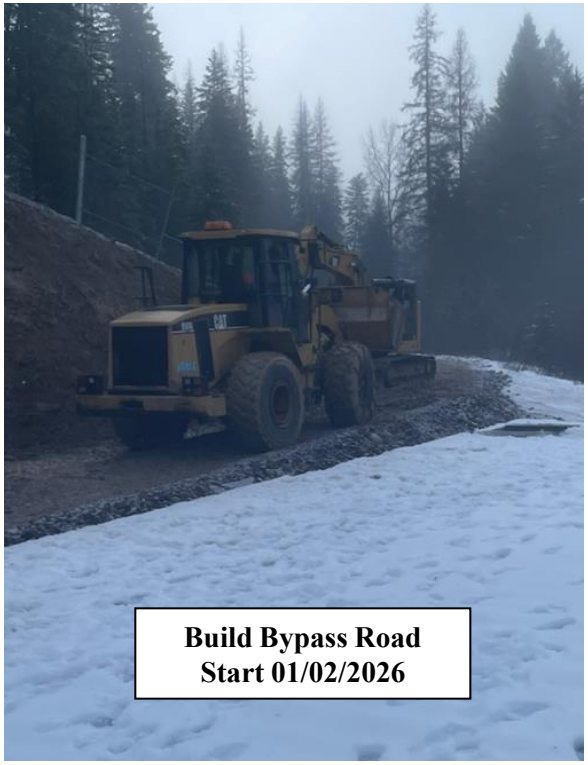


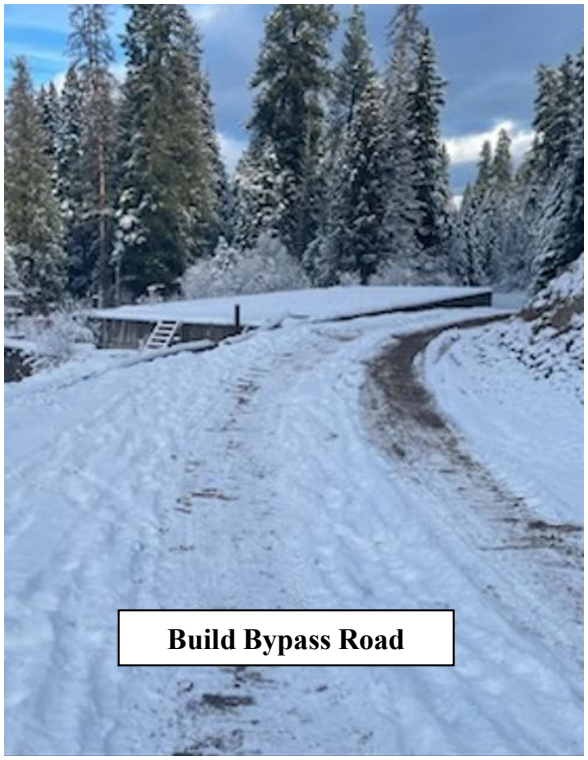
Open Bypass to
Sedimentation Basin
12/29/2025



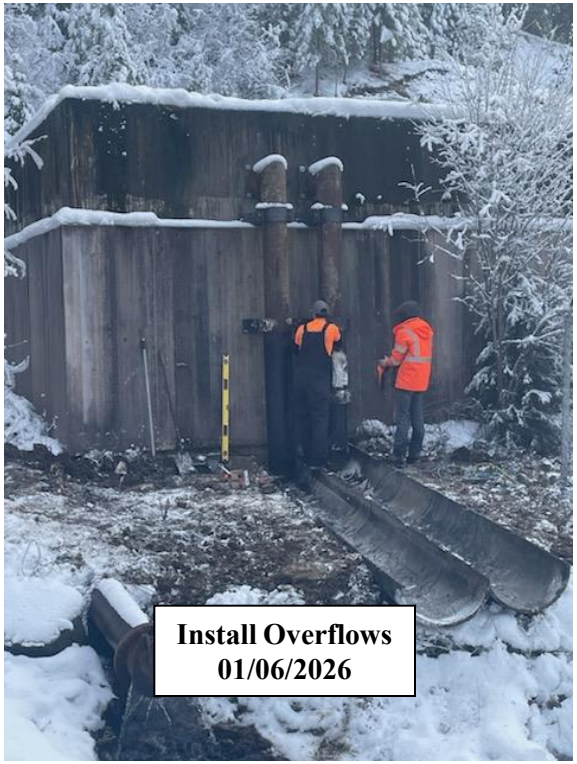
Build Temp Coffer Dam
For Bypass Pipe, 12/30/2025

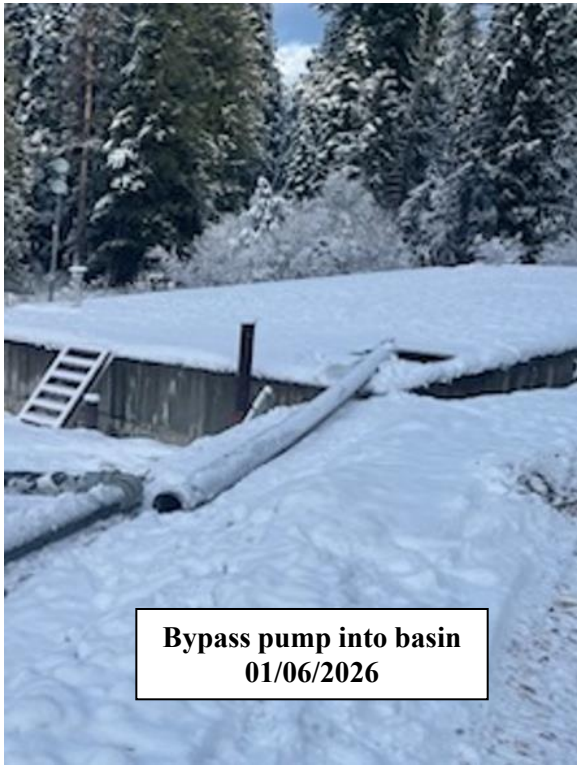
Emergency Protective Measures
Solutions/Actions

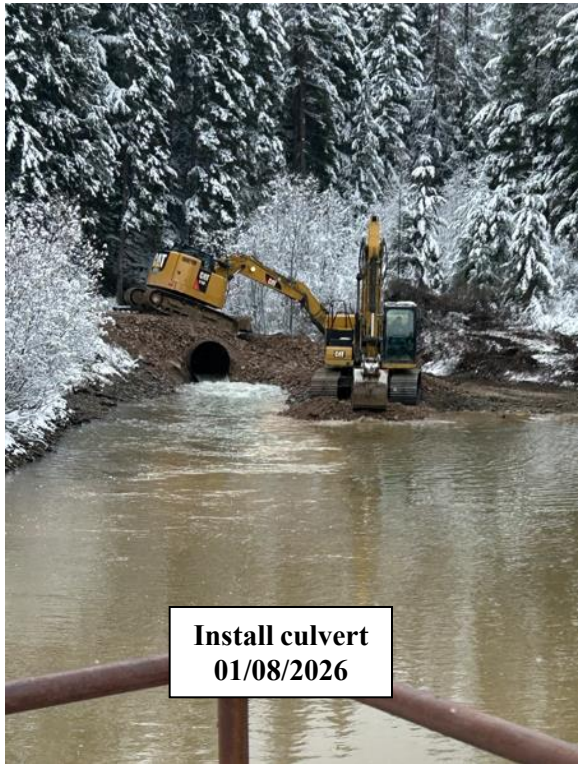




Emergency Protective Measures
Solutions/Actions



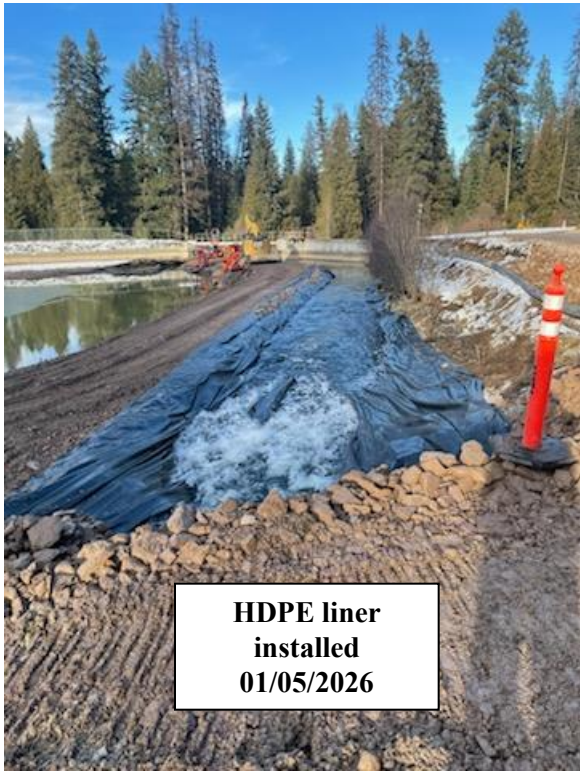




Emergency Protective Measures
Solutions/Actions

Emergency Protective Measures
Solutions/Actions

Install HDPE liner to assist in dewatering Start 01/14/2026



HDPE liner installed 01/05/2026

Continued Dewatering 01/15/2026

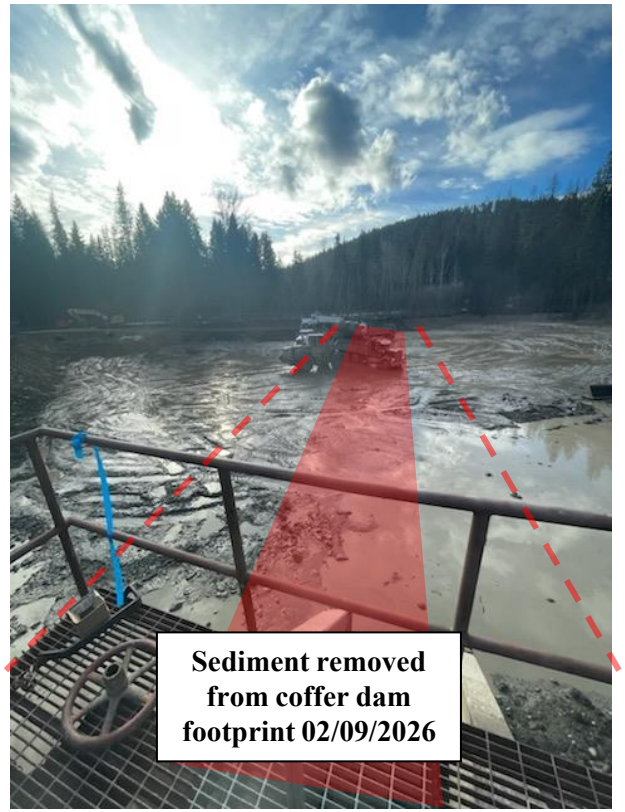
Emergency Protective Measures
Solutions/Actions

Emergency Protective Measures
Solutions/Actions

Emergency Protective Measures
Solutions/Actions

Emergency Protective Measures
Solutions/Actions

Emergency Protective Measures
Solutions/Actions

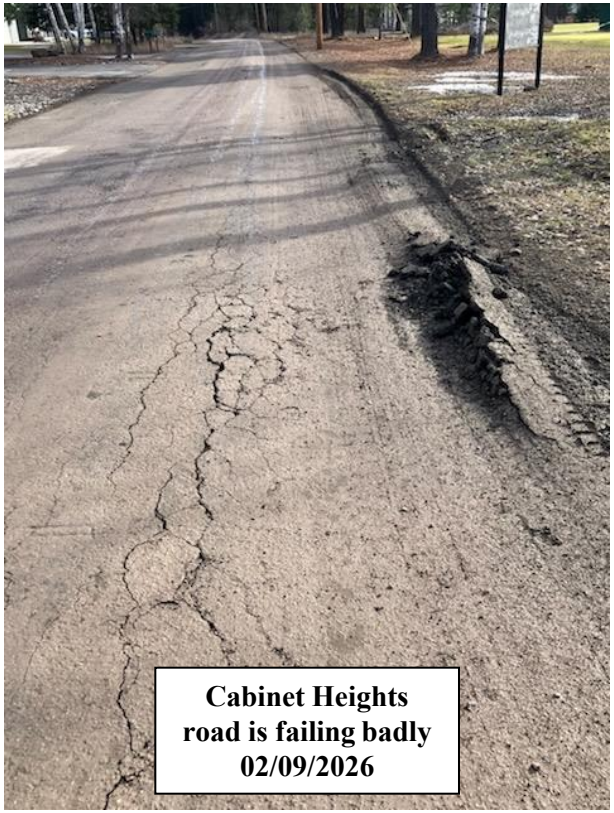


Sediment removed from coffer dam footprint 02/09/2026

Sediment removed from northern wall to relieve pressure 02/09/2026

Main access road is failing badly 02/09/2026

Emergency Protective Measures
Solutions/Actions



Cabinet Heights road is failing badly 02/09/2026

Begin main temporary coffer dam construction 02/12/2026

Upcoming Activity

Emergency Protective Measures
Solutions/Actions

Upcoming Actions

Build coffer dam

Inspect Northern wall

Remove Bypass