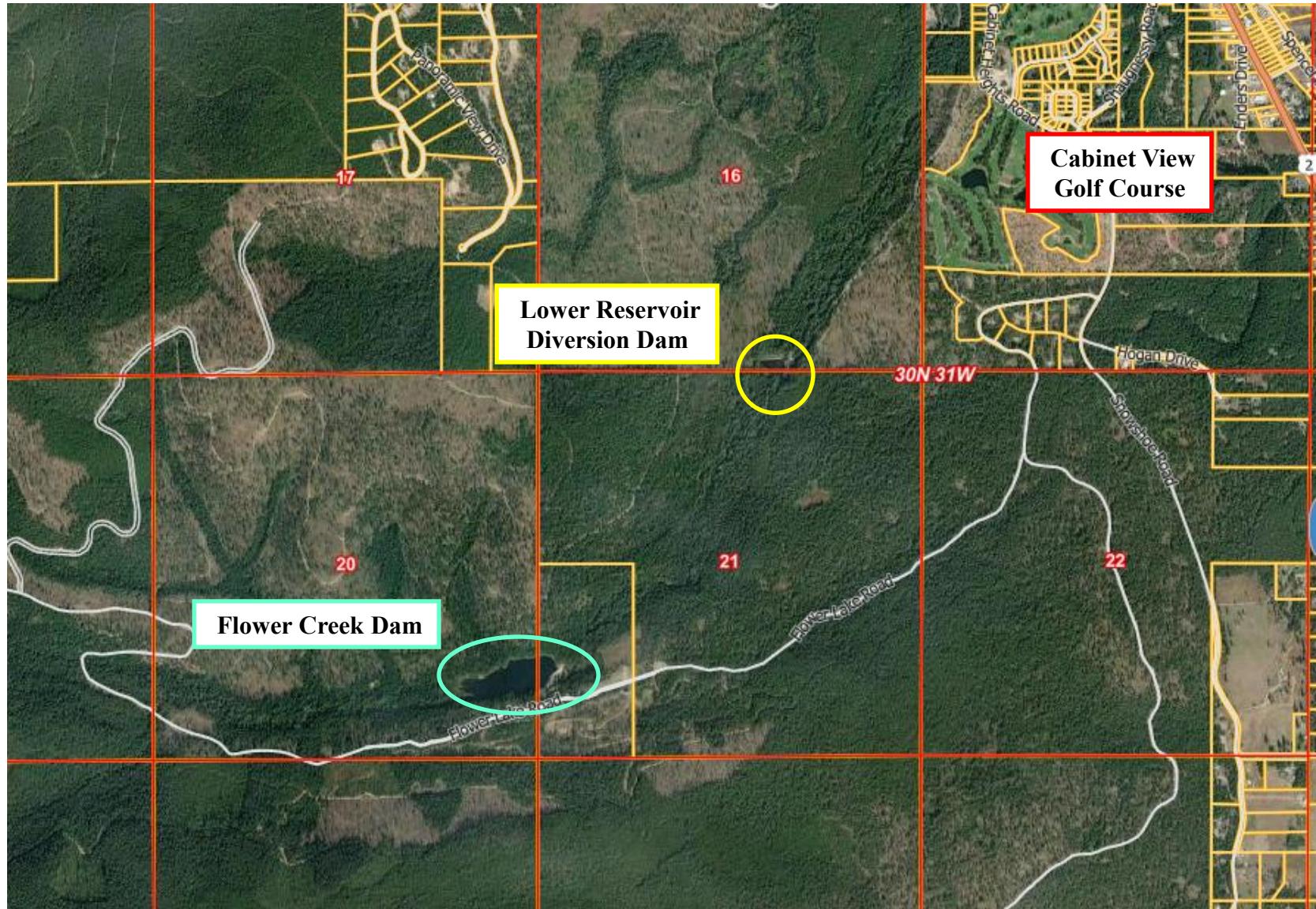


Flower Creek Dam and Lower Reservoir/Diversion Dam



Flower Creek Lower Reservoir Pre-sedimentation Basin/Diversion Dam



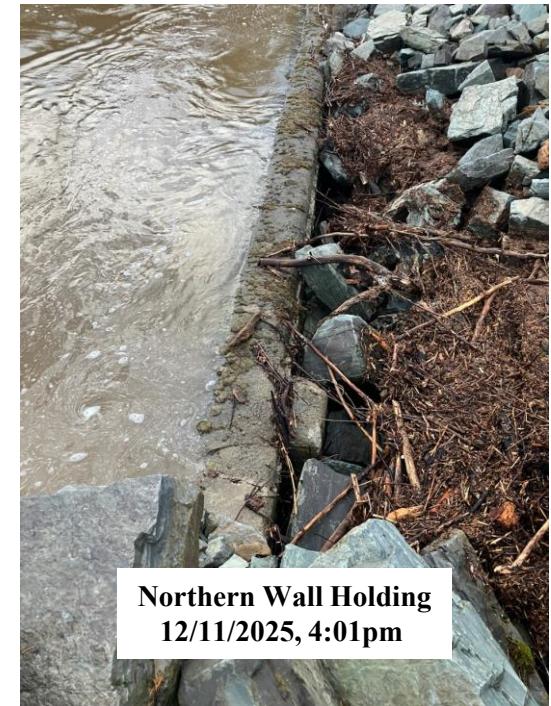
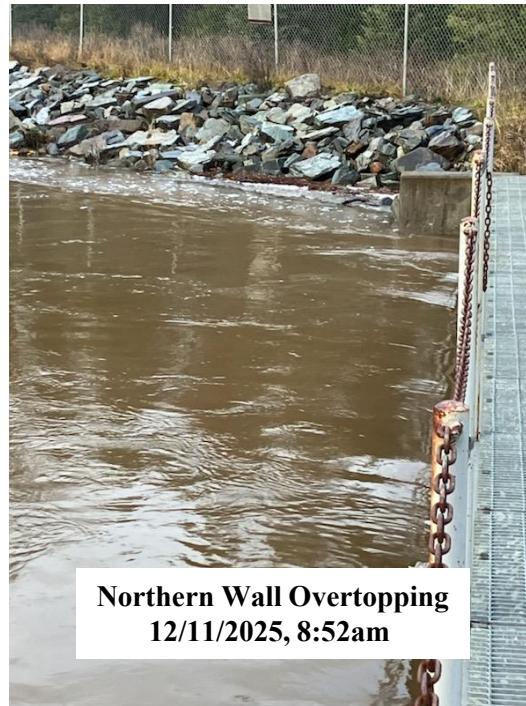
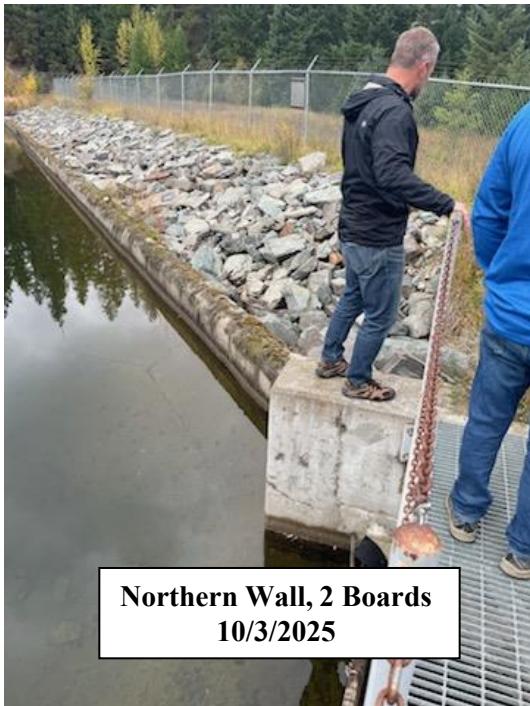
Spillway October 2025



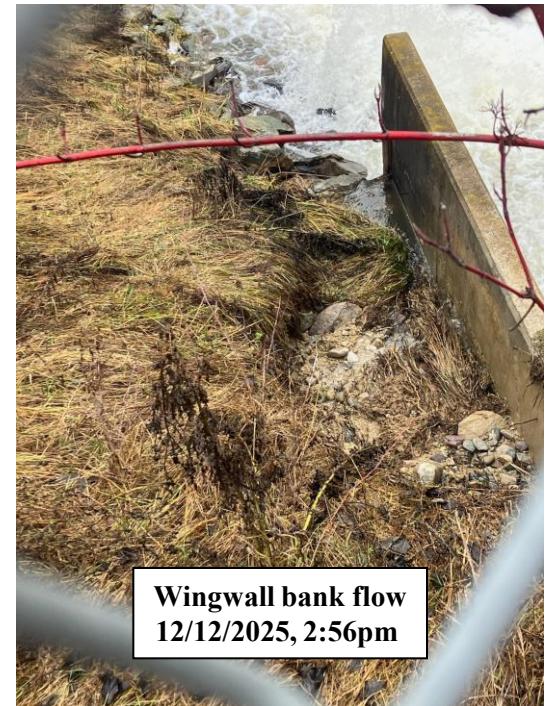
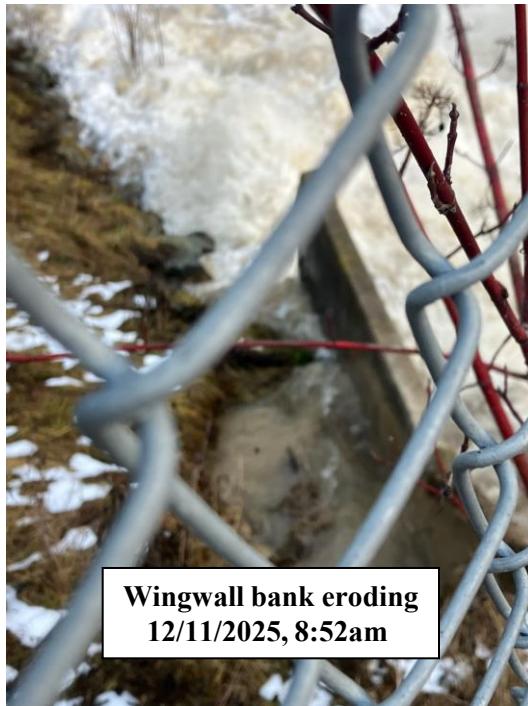
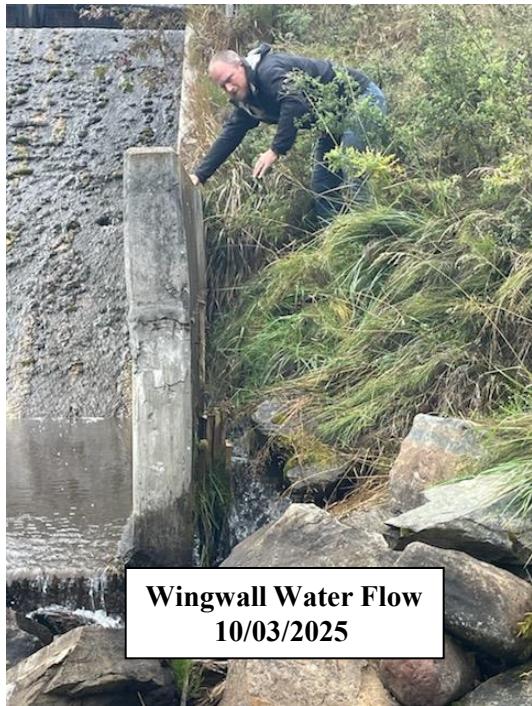
Reservoir November 2025



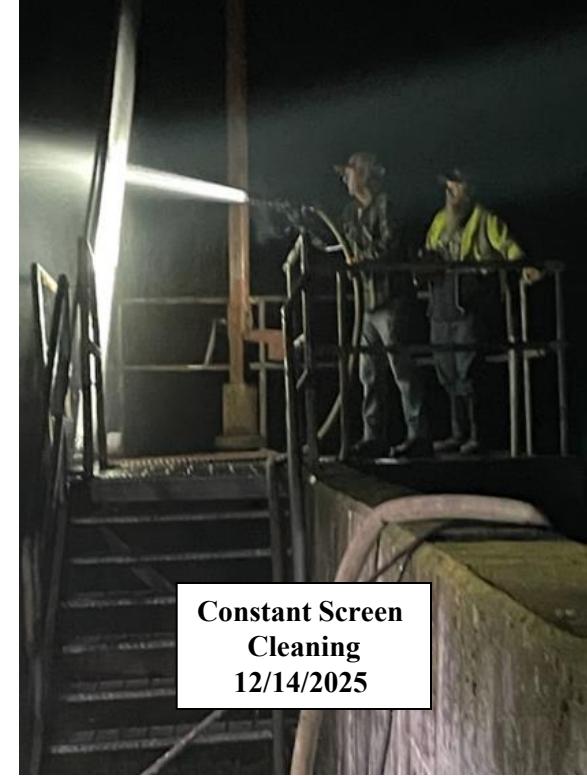
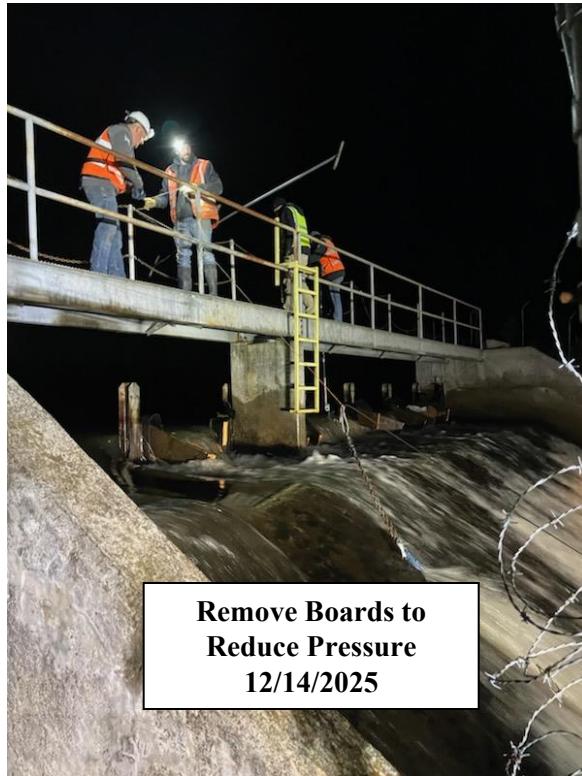
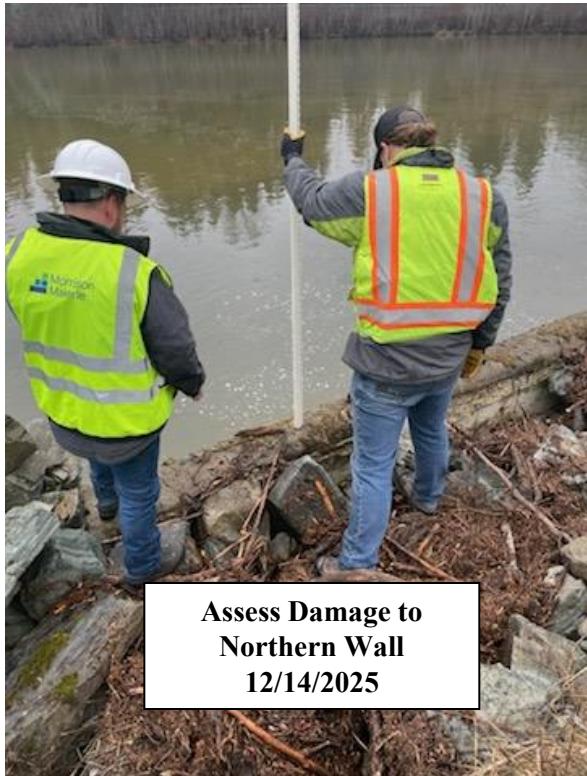
Lower Reservoir Northern Retaining Wall



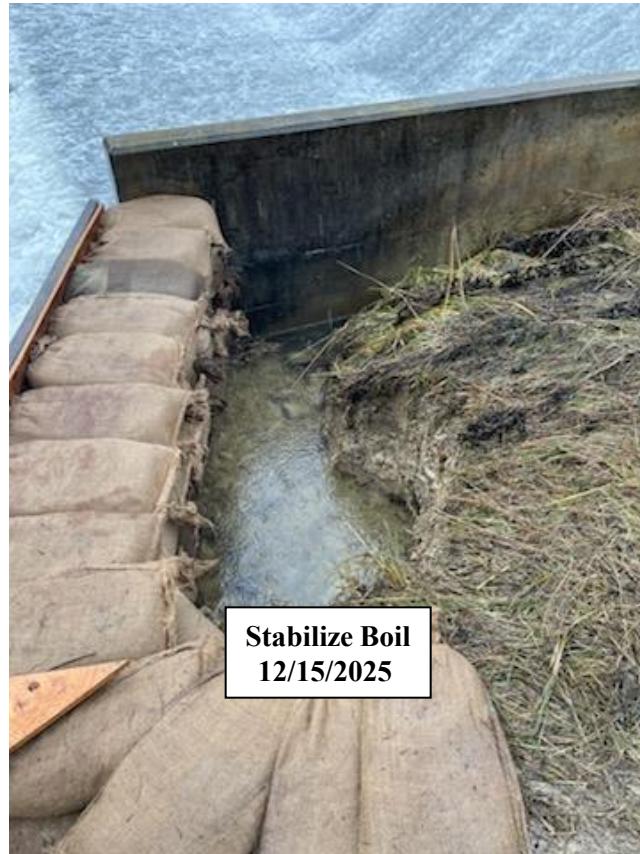
Lower Reservoir Spillway



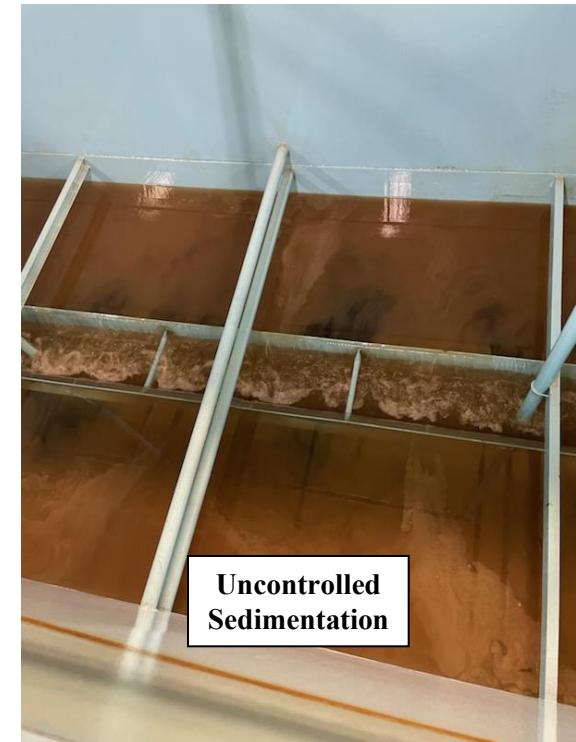
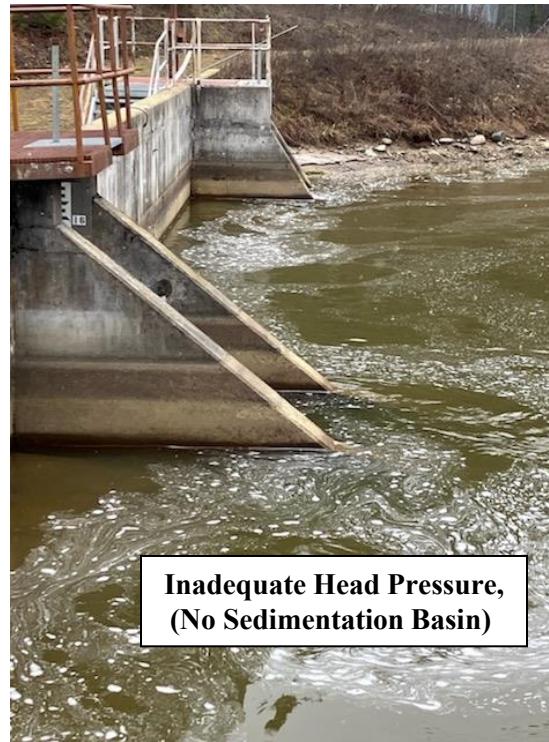
Emergency Protective Measures



Emergency Protective Measures

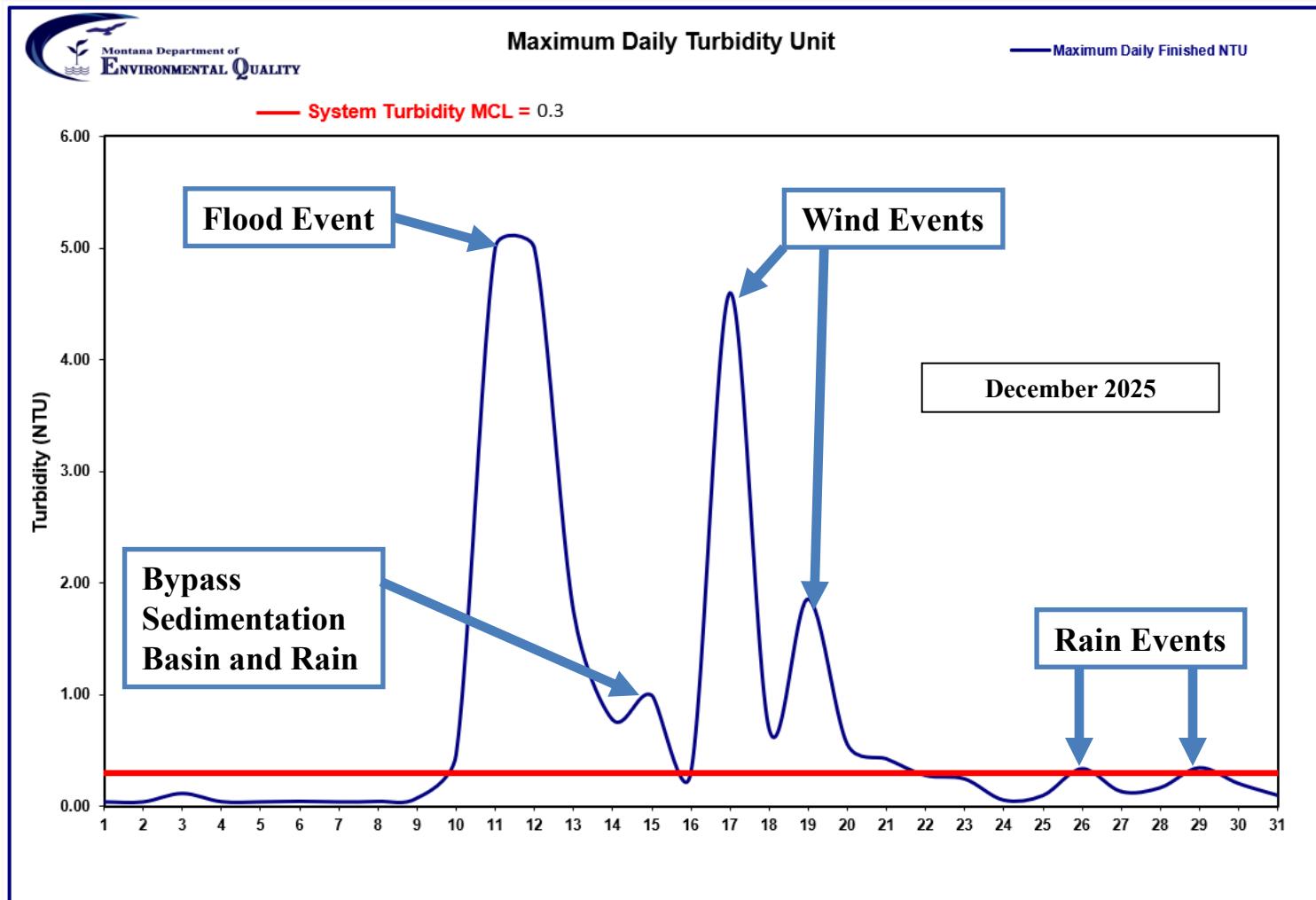


Emergency Protective Measures Negative Effects



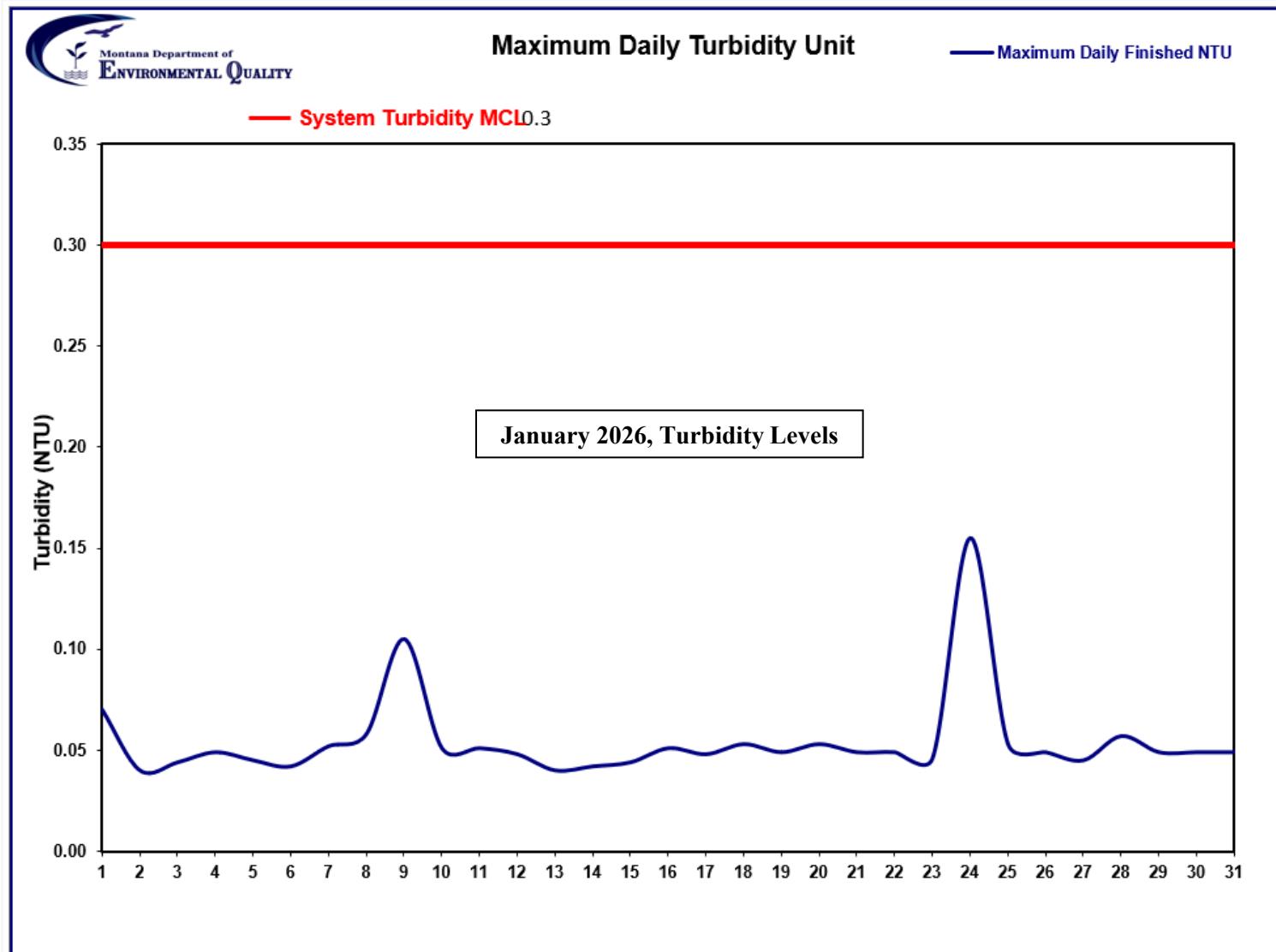
Emergency Protective Measures

Negative Effects



Emergency Protective Measures

Solutions/Actions



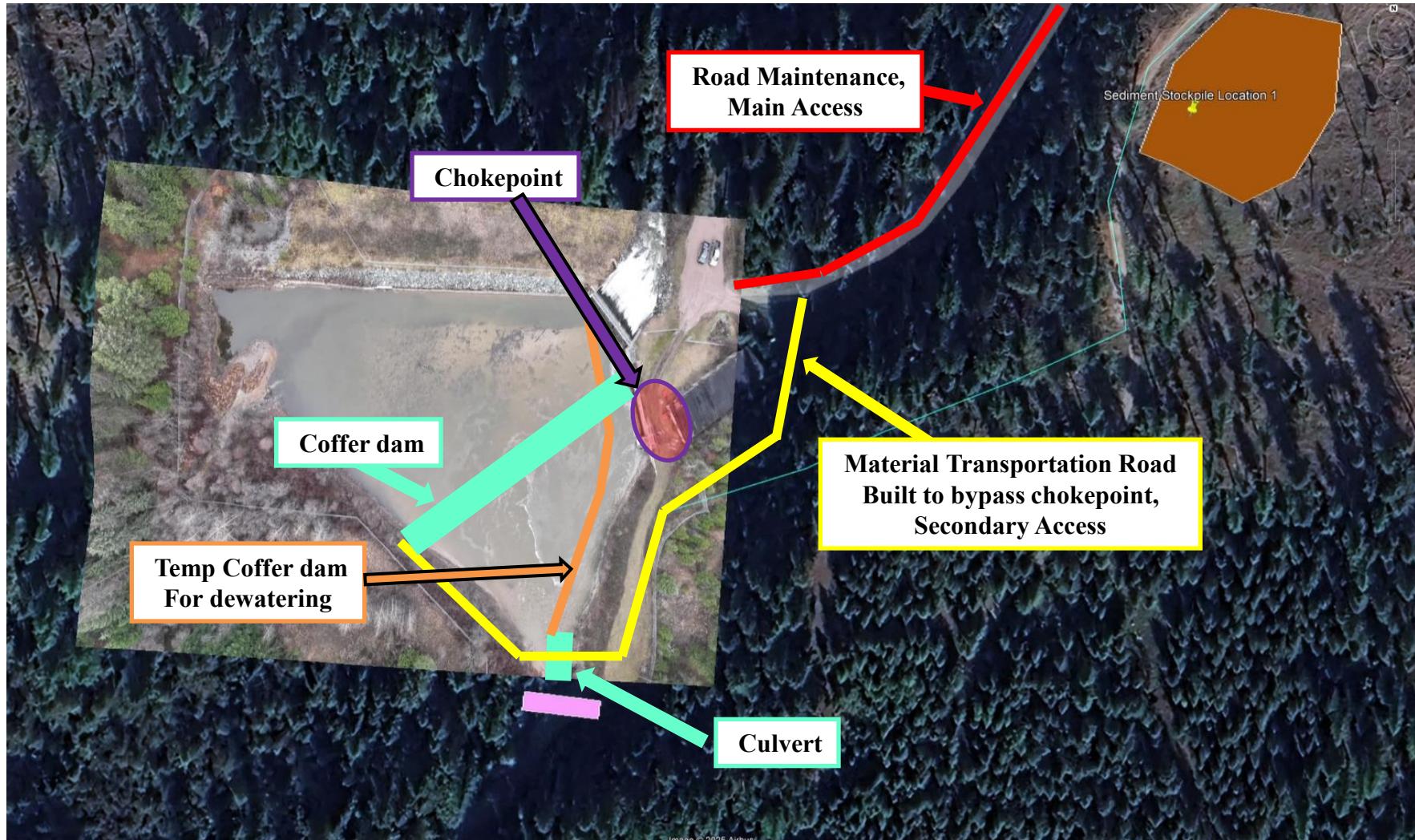
Emergency Protective Measures

Solutions/Actions



Emergency Protective Measures

Solutions/Actions



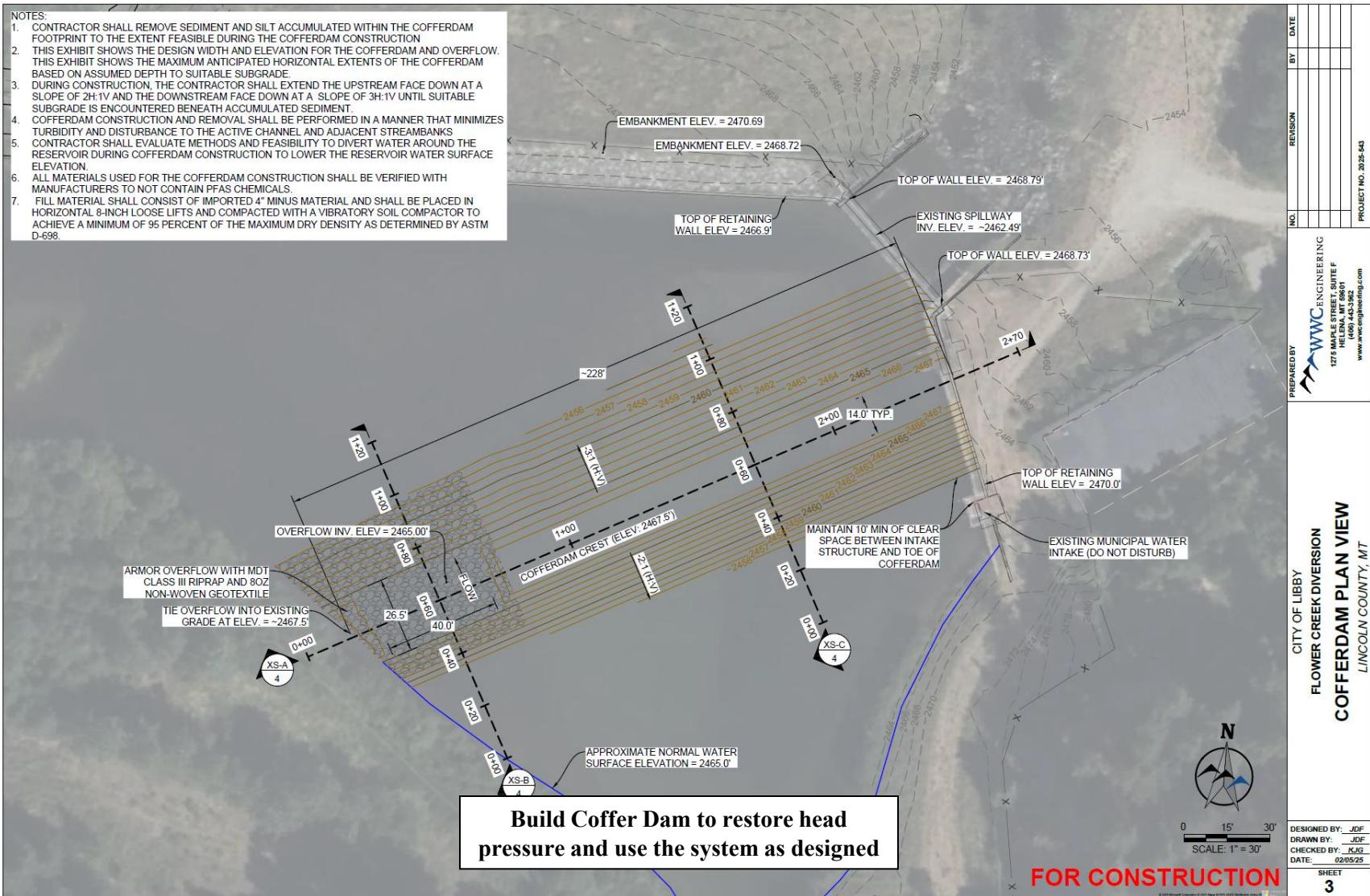
Emergency Protective Measures

Solutions/Actions

Aerial photograph of Libby 2015-05-05. Source: Federal Emergency Management Agency (FEMA) National Flood Insurance Program. © 2015, FEMA. All rights reserved.

NOTES:

1. CONTRACTOR SHALL REMOVE SEDIMENT AND SILT ACCUMULATED WITHIN THE COFFERDAM FOOTPRINT TO THE EXTENT FEASIBLE DURING THE COFFERDAM CONSTRUCTION
2. THIS EXHIBIT SHOWS THE DESIGN WIDTH AND ELEVATION FOR THE COFFERDAM AND OVERFLOW. THIS EXHIBIT SHOWS THE MAXIMUM ANTICIPATED HORIZONTAL EXTENTS OF THE COFFERDAM BASED ON ASSUMED DEPTH TO SUITABLE SUBGRADE.
3. DURING CONSTRUCTION, THE CONTRACTOR SHALL EXTEND THE UPSTREAM FACE DOWN AT A SLOPE OF 2H:1V AND THE DOWNSTREAM FACE DOWN AT A SLOPE OF 3H:1V UNTIL SUITABLE SUBGRADE IS ENCOUNTERED BENEATH ACCUMULATED SEDIMENT.
4. COFFERDAM CONSTRUCTION AND REMOVAL SHALL BE PERFORMED IN A MANNER THAT MINIMIZES TURBIDITY AND DISTURBANCE TO THE ACTIVE CHANNEL AND ADJACENT STREAMBANKS
5. CONTRACTOR SHALL EVALUATE METHODS AND FEASIBILITY TO DIVERT WATER AROUND THE RESERVOIR DURING COFFERDAM CONSTRUCTION TO LOWER THE RESERVOIR WATER SURFACE ELEVATION.
6. ALL MATERIALS USED FOR THE COFFERDAM CONSTRUCTION SHALL BE VERIFIED WITH MANUFACTURERS TO NOT CONTAIN PFAS CHEMICALS.
7. FILL MATERIAL SHALL CONSIST OF IMPORTED 4" MINUS MATERIAL AND SHALL BE PLACED IN HORIZONTAL 8-INCH LOOSE LIFTS AND COMPACTED WITH A VIBRATORY SOIL COMPACTOR TO ACHIEVE A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698.



Emergency Protective Measures Solutions/Actions

NOTES:
1. COM
2. COR
3. REED
4. BYP
5. COM
OF
(CO)

24

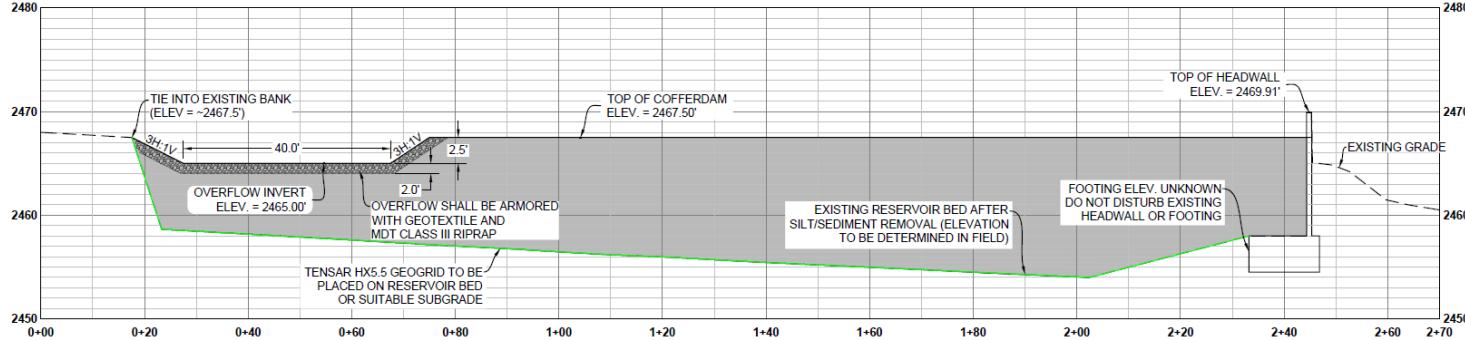
24

24

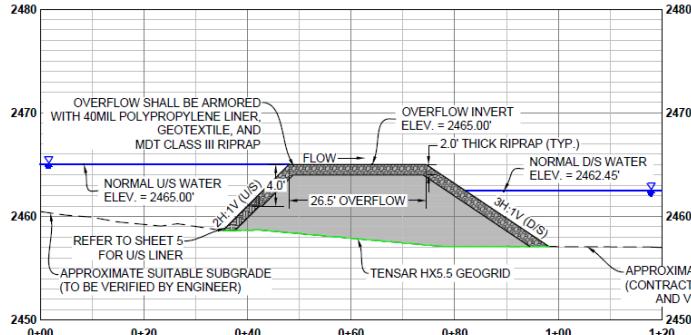
NOTES:

1. CONTRACTOR TO REMOVE SILT/SEDIMENT UNTIL SUITABLE SUBGRADE IS FOUND.
2. COFFERDAM BOTTOM ELEVATION SHALL BE DETERMINED IN THE FIELD AND VERIFIED BY THE ENGINEER.
3. REDUCE WATER SURFACE ELEVATION DURING COFFERDAM CONSTRUCTION TO THE EXTENT FEASIBLE BASED ON INFLOWS AND BYPASS PUMPING CAPABILITIES (CONTRACTOR TO COORDINATE WITH ENGINEER).
4. CONTRACTOR SHALL INSTALL, IN THE FOLLOWING ORDER ON THE UPSTREAM FACE OF THE COFFERDAM: (1) A 12-INCH-THICK LAYER OF $\frac{3}{4}$ -INCH MINUS AGGREGATE, (2) 6-02 NONWOVEN GEOTEXTILE, AND (3) A 40-MIL POLYPROPYLENE LINER. SEE SHEET 5.
5. TENSAR HX5 GEOGRID SHALL BE PLACED IN LOCATIONS WHERE EXCAVATION TO A SUITABLE SUBGRADE CANNOT BE ACHIEVED (CONTRACTOR TO COORDINATE WITH ENGINEER).

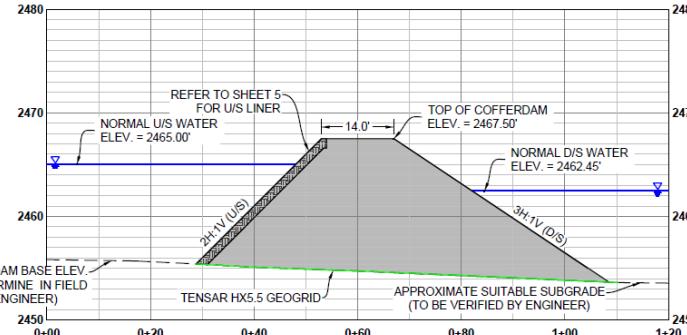
Profile View of XS-A



Profile View of XS-B



Profile View of XS-C



Build Cofferdam to restore head pressure and use the system as designed

FOR CONSTRUCTION

DESIGNED BY: JOE	DRAWN BY: LJD	REVISION	BY	DATE
checked by: KCG	checked by: KCG			
DATE: 02/05/23				
SHEET 4				

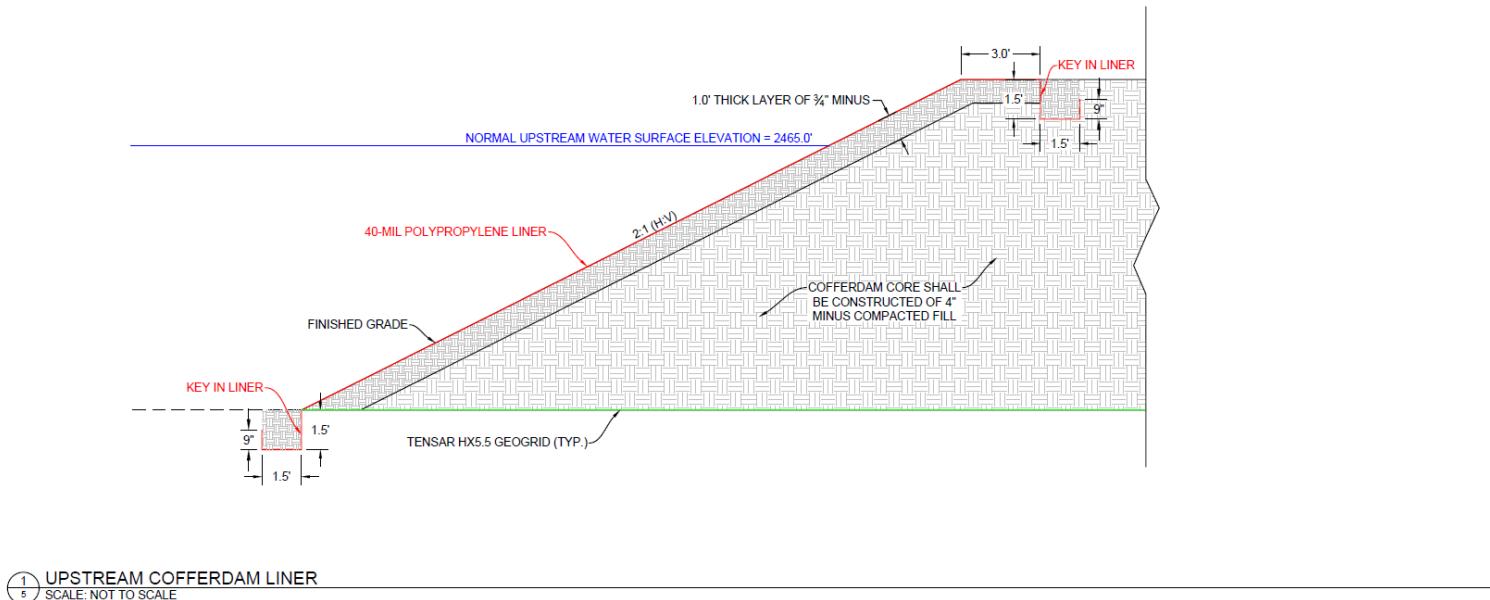
DESIGNED BY: JDF
DRAWN BY: JDF
CHECKED BY: KJG
DATE: 02/05/25
SHEET
4

Emergency Protective Measures Solutions/Actions

Digitized by srujanika@gmail.com on 22/08/2014

NOTES:

1. REMOVE ANY PROTRUDING OR JAGGED MATERIAL FROM LINER ANCHOR TRENCH BEFORE PLACING LINER.
2. ANCHOR TRENCH SHALL BE BACKFILLED WITH $\frac{3}{4}$ " 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.



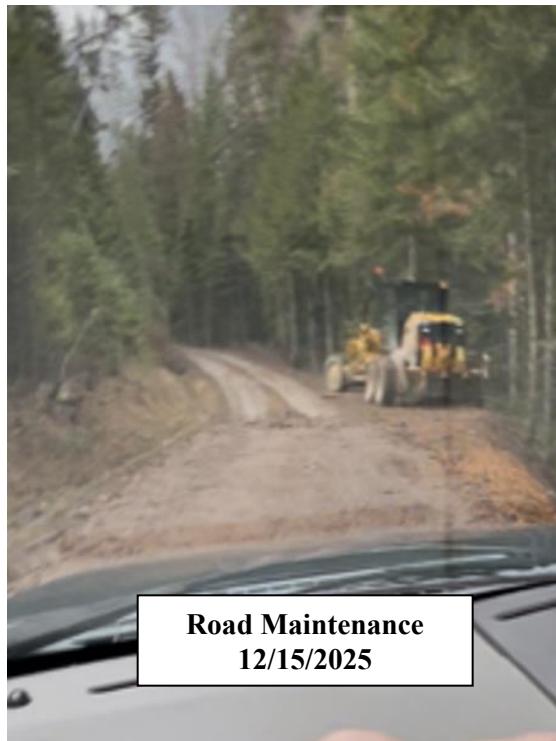
Build Cofferdam to restore head pressure and use the system as designed

FOR CONSTRUCTION

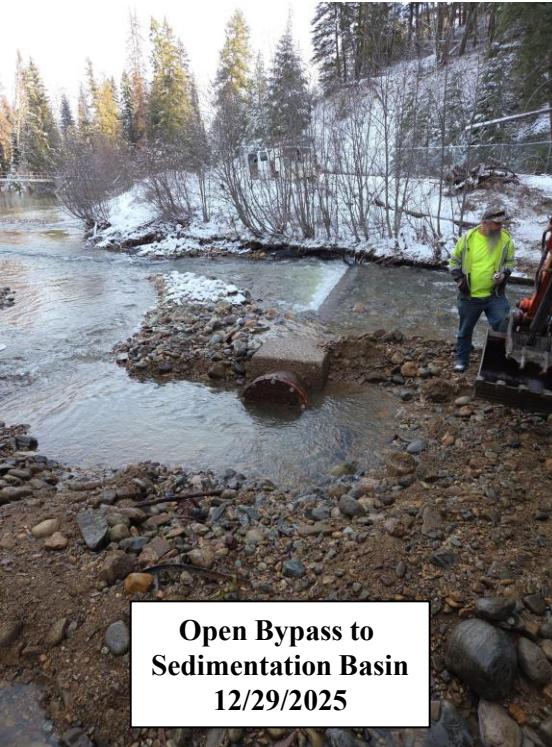
DESIGNED BY: JDF
DRAWN BY: JDF
CHECKED BY: KJG
DATE: 02/05/25
SHEET
5

Emergency Protective Measures

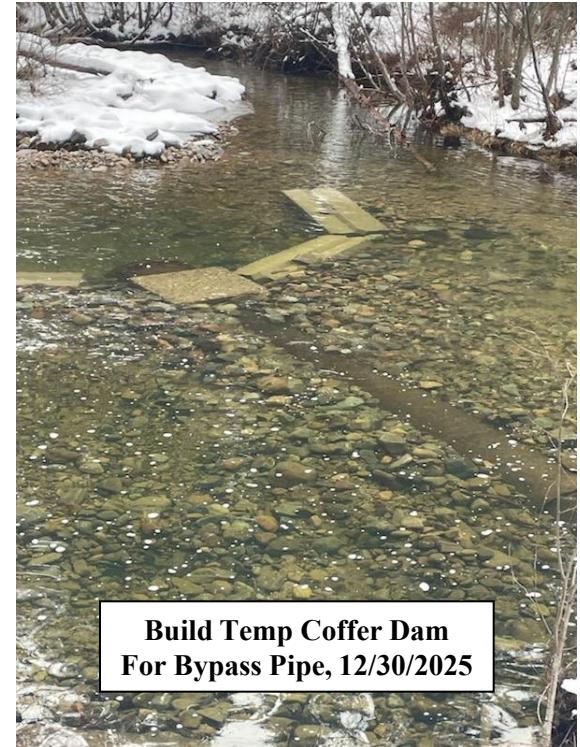
Solutions/Actions



Road Maintenance
12/15/2025



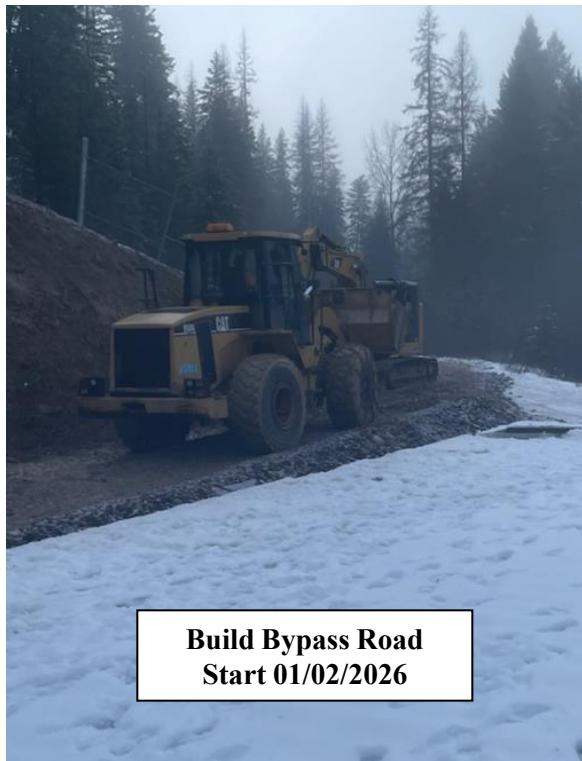
Open Bypass to
Sedimentation Basin
12/29/2025



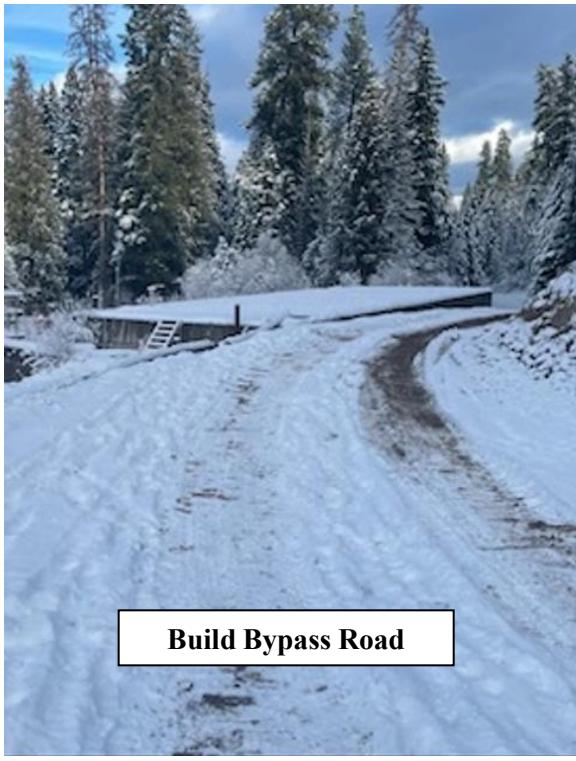
Build Temp Coffer Dam
For Bypass Pipe, 12/30/2025

Emergency Protective Measures

Solutions/Actions



Build Bypass Road
Start 01/02/2026



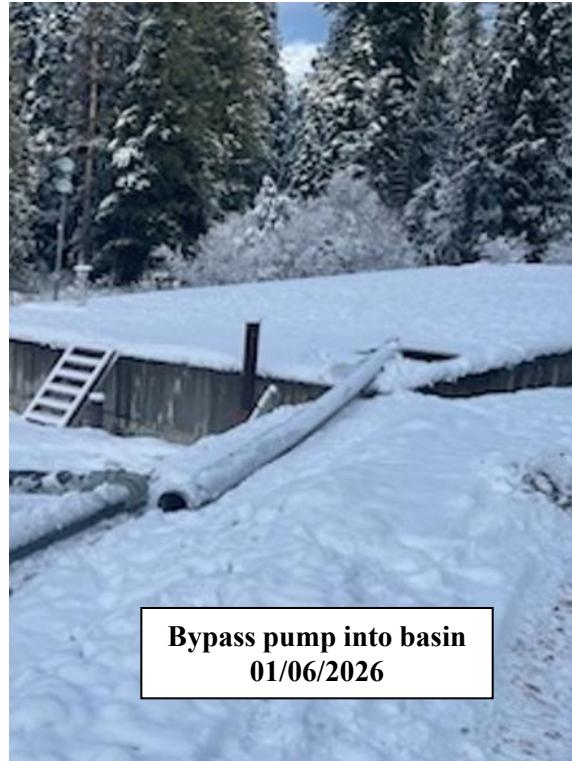
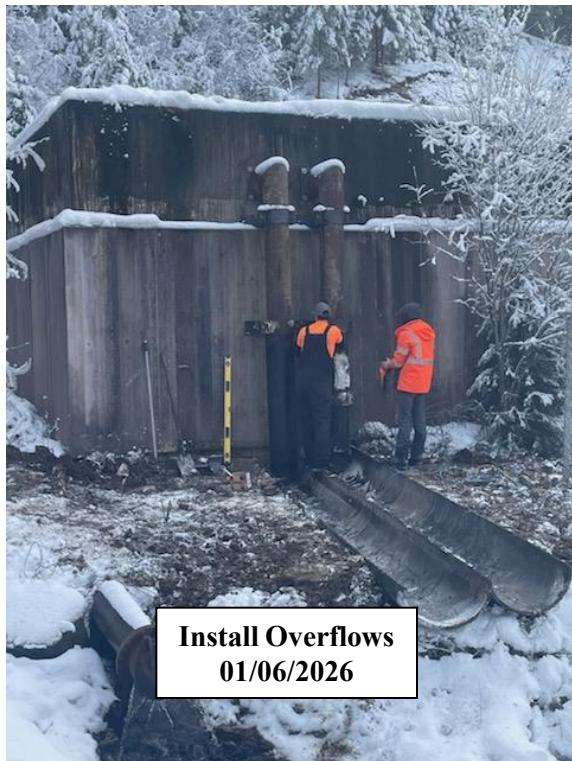
Build Bypass Road



Bring in Pumps
01/06/2026

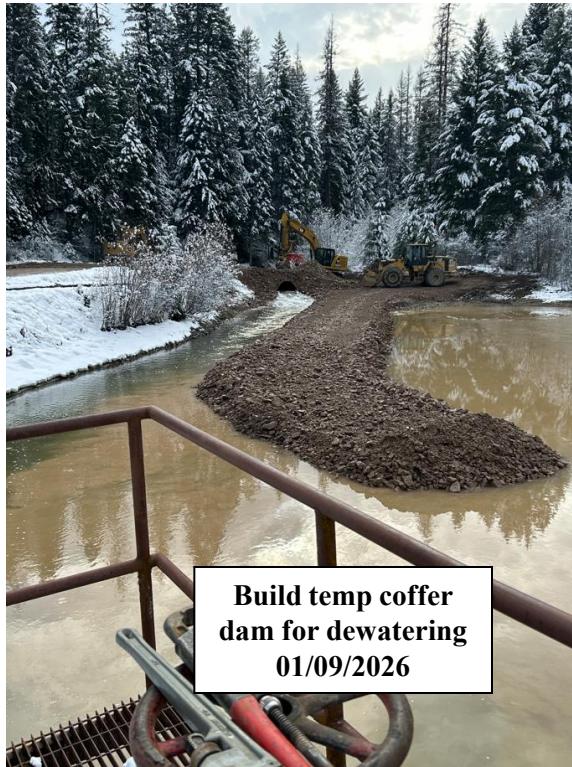
Emergency Protective Measures

Solutions/Actions



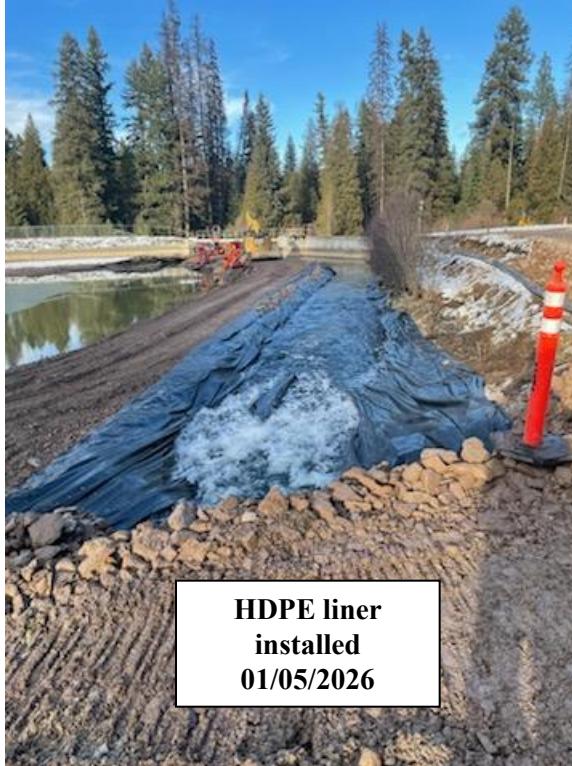
Emergency Protective Measures

Solutions/Actions



Emergency Protective Measures

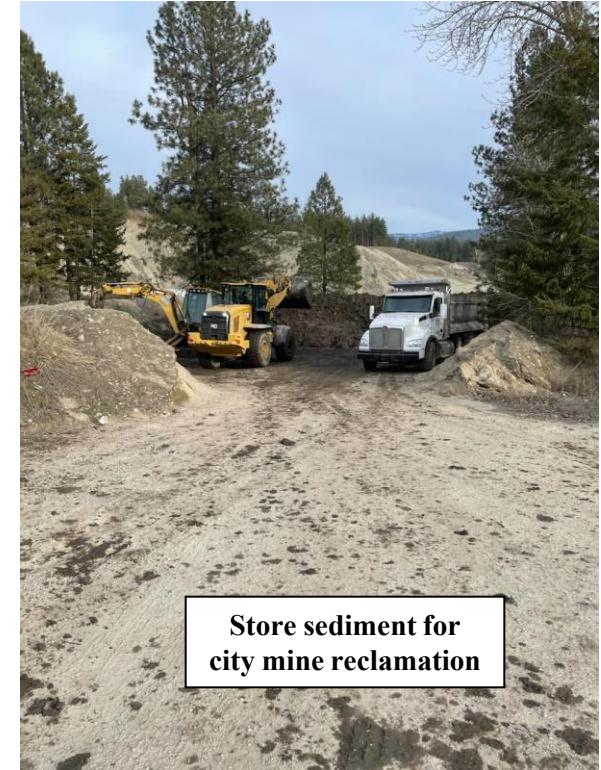
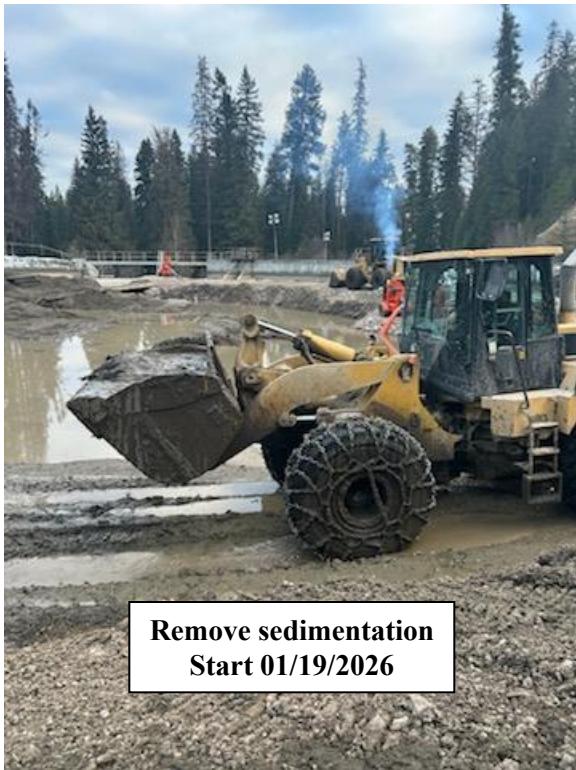
Solutions/Actions



Emergency Protective Measures Solutions/Actions



Emergency Protective Measures Solutions/Actions



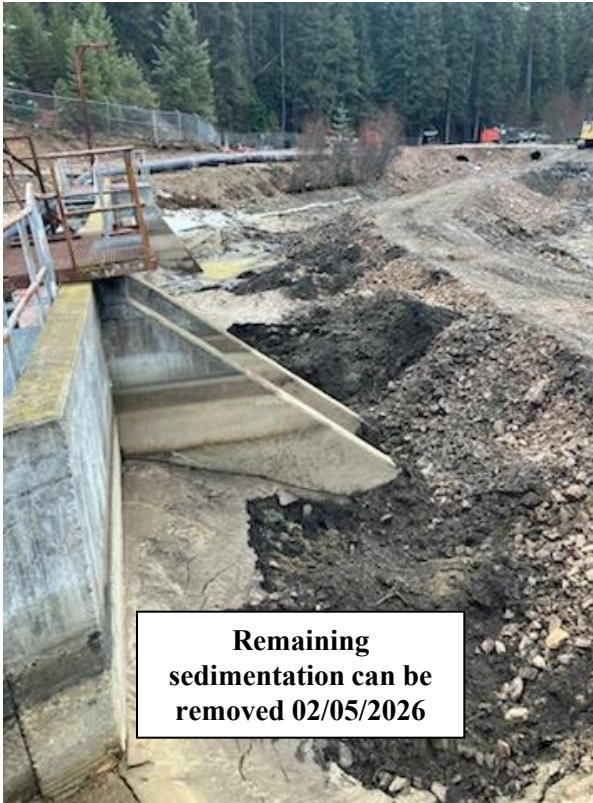
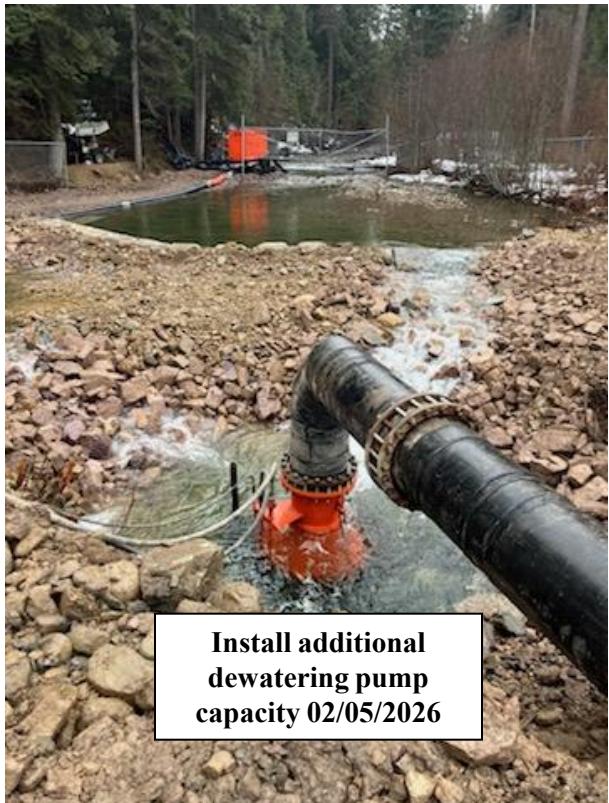
Emergency Protective Measures

Solutions/Actions



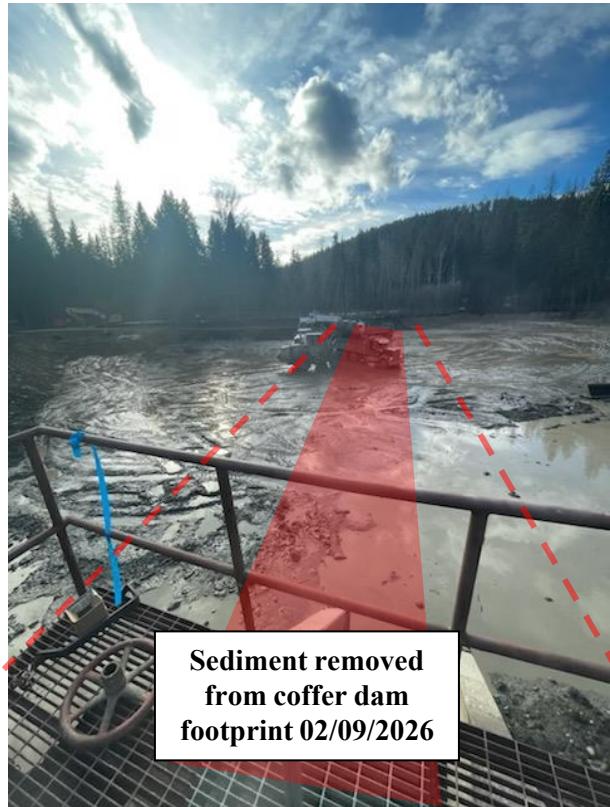
Emergency Protective Measures

Solutions/Actions



Emergency Protective Measures

Solutions/Actions



Emergency Protective Measures Solutions/Actions



Upcoming Activity

Emergency Protective Measures Solutions/Actions

Upcoming Actions

Build coffer dam

**Inspect
Northern wall**

Remove Bypass