

DAILY FIELD RECORD

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Project and Task Number: 350.0065.004		Date: 4/10/23	
Project Name: Frenchtown Mill		Field Activity: CFR Berm Observations	
Location: Missoula County		Weather: Sunny 70°F	
USGS Station 12353000 (Below Missoula):		3280 cfs (1.94 ft)	
Observer(s):	Company	Time in	Time Out
Dan Hoffman	NewFields	1400	1630
Heath Geil-Haggerty	NewFields	1400	1630
Wil George	MTDEQ	1400	1630
PERSONAL SAFETY CHECKLIST:			
<input type="checkbox"/>	<input type="checkbox"/>	Steel-toed boots	<input checked="" type="checkbox"/> X
<input type="checkbox"/>	<input type="checkbox"/>	Gloves	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Hard Hat	<input checked="" type="checkbox"/> X
<input type="checkbox"/>	<input type="checkbox"/>	Safety Goggles	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Traffic Vest	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Waders	<input type="checkbox"/>
PURPOSE:			
<p>Perform Clark Fork River (CFR) berm monitoring in accordance with the Former Smurfit-Stone/Frenchtown Mill - Clark Fork River Berm Surveillance & Contingency Plan, Version 3, May 22, 2019. Berm monitoring is conducted to identify potential problems which could affect the function of the berms at the Former Frenchtown Mill Site. Visual observations are documented along the berm and at photo points between the southeast corner of HP2 downstream to the northwest corner of HP13A (Figure 1). A figure depicting the predicted weekly chance of exceeding CFR stage at USGS Gage Station 1235300 developed by the National Oceanic and Atmospheric Administration is included as Figure 2.</p>			
GENERAL COMMENTS/OBSERVATIONS: The CFR level was below the elevation of the toe of the CFR berm at all locations making it possible to inspect the entire berm. No evidence of river erosion along the CFR berm was observed. No evidence of slumping, heaving, breaching, or collapsing was observed. Very little water was observed in holding ponds, no boils in ponds were observed. Numerous animal burrows were observed in and along CFR berm. No areas of concern were noted.			
TIME	PHOTO	DESCRIPTION OF WORK PERFORMED	
1400	---	Arrive on Site (Former Smurfit-Stone/Frenchtown Mill; 14377 Pulp Mill Road, Missoula MT 59808).	
1419	---	Cannot download OK-1 transducer, bring back to office for cleaning. OK-1 Gage height = 0.06 ft	
1430	---	Start berm inspection on south end of berm	
1449	1	Inspect berm, photo point 1.	
1455	2	Inspect berm, photo point 2.	
1459	3	Inspect berm, photo point 3. Water surface elevation (WSEL) is below gage.	
1502	4	Inspect berm, photo point 4.	
1514	5	Inspect berm, pond is dry at HP2 gage location.	
1526	---	Download CFR-1	
1528	6	Inspect berm, photo point 5. CFR WSEL is below the photo point 5 gage.	
1531	7	Inspect berm, WSEL is below the HP7 gage.	
1533	8	Inspect berm, photo point 6.	
1538	9	Inspect berm, photo point 7.	
1541	10	Inspect berm, Pond is dry at HP11 gage.	
1546	11	Inspect berm, photo point 8. CFR WSEL is below gage	
1552	12	Inspect berm, Pond WSEL is below the HP13a gage.	
1555	13	Inspect berm, photo point 9.	
1601	---	Download CFR-2, CFR-2 gage height = 1.92 ft	
1621	---	Download barologger at NFMW-4	
1630	---	Leave site for the day.	

Berm Observations (Including Special Attention Areas) (Mark Y/N for each line)			
	Y	N	Notes
New or changed sediment transport?		N	
Low points, sink holes, or depressions?		N	
Tension cracks or open joints?		N	Cracks from 2018 high flows are no longer visible.
Erosion, scour, or undermining of berm?		N	
Sliding, sloughing, or bulging?		N	
Visible plumes or changes in river color apparently emanating from the Site?		N	
Animal burrows or roots as potential seepage pathways?	Y		Animal burrows in CFR berm
Other concerns (vehicular activity, trespassing, changes in vegetation, debris?		N	
<p>Discuss "yes" observations above:</p> <p>Animal burrows in the CFR berm have been observed and documented beginning in 2018. No animal burrow seepage pathways have been observed.</p>			

PHOTO LOG

Photo 1**Site: Photo Point 1****Date/Time:** 4/10/23 1449**Staff Gage (ft):** N/A**Location:**

N 46.95066

W 114.20983

Comments:

Looking northwest. Southwest corner of HP2.

**Photo 2****Site: Photo Point 2****Date/Time:** 4/10/23 1455**Staff Gage (ft):** N/A**Location:**

N 46.951097

W 114.213278

Comments:

Looking east.



PHOTO LOG



Photo 3	
Site: Photo Point 3	
Date/Time: 4/10/23 1459	
Staff Gage (ft): Below gage	
Location:	
N 46.95146	
W 114.21378	
Comments:	
Looking northwest. West side of HP2.	
Photo 4	
Site: Photo Point 4	
Date/Time: 4/10/23 1502	
Staff Gage (ft): N/A	
Location:	
N 46.95341	
W 114.21720	
Comments:	
Looking north. West side of HP2.	

PHOTO LOG

Photo 5

Site: HP2 gage

Date/Time: 4/10/23 1514

Staff Gage (ft): Below gage

Location:

N 46.9562

W 114.21801

Comments:

HP2 gage.



Photo 6

Site: Photo Point 5

Date/Time: 4/10/23 1528

Staff Gage (ft): Below gage

Location:

N 46.96022

W 114.21975

Comments:

Looking south. Southwest side of HP11.



PHOTO LOG



Photo 7	
Site: HP7 gage	
Date/Time: 4/10/23 1531	
Staff Gage (ft): Below gage	
Location:	
N 46.95975	
W 114.21866	
Comments:	
HP7 gage.	
Photo 8	
Site: Photo Point 6	
Date/Time: 4/10/23 1533	
Staff Gage (ft): N/A	
Location:	
N 46.96022	
W 114.21975	
Comments:	
Looking north. Southwest side of HP11.	

PHOTO LOG



Photo 9	
Site: Photo Point 7	
Date/Time: 4/10/23 1538	
Staff Gage (ft): N/A	
Location:	
N 46.97682	
W 114.22689	
Comments:	
Looking north. West side of HP11.	
Photo 10	
Site: HP11 gage	
Date/Time: 4/10/23 1541	
Staff Gage (ft): Below gage	
Location:	
N 46.96666	
W 114.22391	
Comments:	
HP11 gage.	

PHOTO LOG

Photo 11**Site:** Photo Point 8**Date/Time:** 4/10/23 1546**Staff Gage (ft):** Below gage**Location:**

N 46.97270

W 114.22433

Comments:

Looking north. West side of HP12.

**Photo 12****Site:** HP13a gage**Date/Time:** 4/10/23 1552**Staff Gage (ft):** Below gage**Location:**

N 46.97674

W 114.22600

Comments:

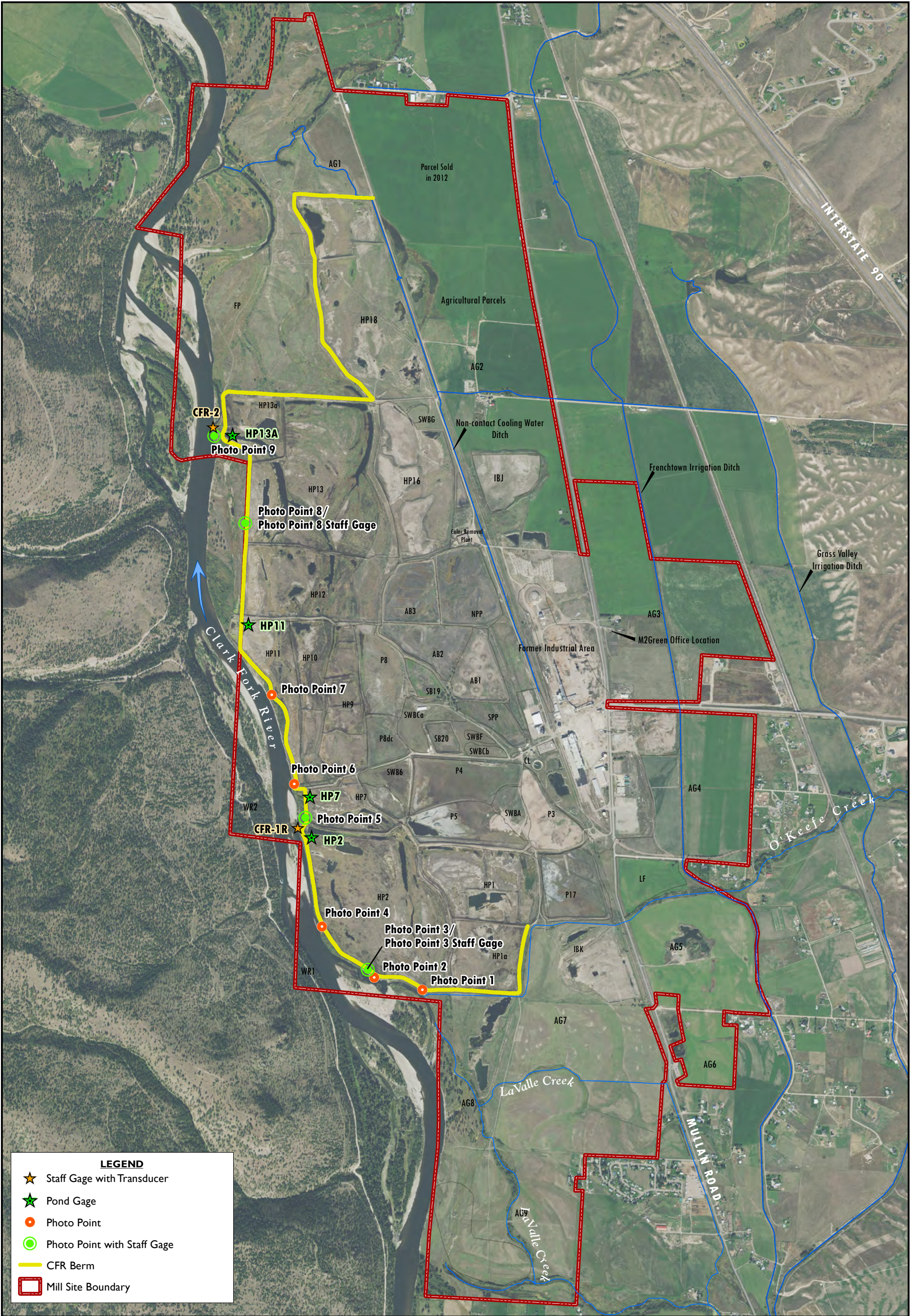
HP13a gage.



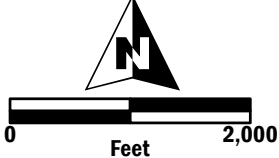
PHOTO LOG

Photo 13
Site: Photo Point 9
Date/Time: 4/10/23 1555
Staff Gage (ft): N/A
Location:
N 46.97682
W 114.22689
Comments:
Looking north. West side of HP13a.





Aerial Photo Source: NAIP 2019



NewFields

CFR Berm Monitoring Locations
Former Smurfit-Stone/Frenchtown Mill Site
Missoula County, Montana
FIGURE 1

Figure 2 - Weekly Chance of Exceeding River Stage at BELM8 - Clark Fork R bl Missoula
Forecast for the period 04/11/2023 - 07/10/2023

This is a conditional simulation based on the current conditions as of 04/11/2023

