

Former Frenchtown Mill	Observer: J. Peterson
Project 350.0065.001	Date / Time: 5/10/18 1340-1520
Clark Fork River Berm	Weather: Cloudy, 61 degrees F
Clark Fork Discharge at USGS Gage 12353000 (cfs): 45,200 – 42,700	

**GENERAL COMMENTS/OBSERVATIONS**

Site observations today are similar to those documented by D. Hoffman on 8 May 2018. The mill caretaker is on site 3-4 days per week and is keeping an eye on the river stage at the site. NewFields will continue to monitor the berm throughout the spring runoff period. Photo point and staff gage locations are shown on **Figure 1**.

The Clark Fork River (CFR) is currently above bankfull and inundating floodplain areas. Floodwaters have reached the bottom of CFR berm along the site in many locations between Photo Point 1 and Photo Point 9.

Flow velocities along CFR berm are relatively low except in Photo Point 8 area where the river has not reached berm and in Photo Point 9/CFR-2 area where velocities are moderate.

No evidence of CFR Berm erosion was observed on either the 'dry' (mill) or 'wet' (river) side of berm.

Soil investigation locations (completed in Dec 2017) along CFR Berm were checked and no evidence of erosion was observed.

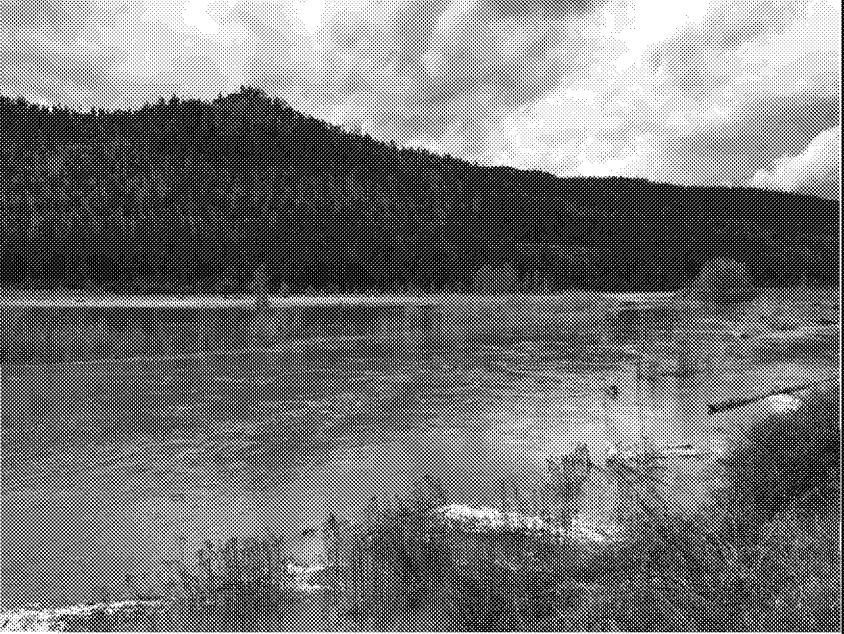

Outfalls 1, 2 and 3 were observed and photographed. No issues noted.

No cracks observed along the CFR berm, or other indications of geotechnical issues resulting from high water conditions.

CFR water surface elevations were 6 feet or more below top of CFR Berm elevation over entire length of the Berm. In most locations the berm had more than 6 feet of freeboard.

Clear, pooled water was observed at several locations along the 'dry' side of the berm; however, no observations of sand boils noted along the toe of berm which would indicate internal erosion/piping processes due to through- or under-seepage. The storage ponds on the mill side of the berm are largely dry. Less than 12-inches of water was present in the pooled areas.

PHOTO LOG

<p><b>Site: Photo Point 1</b></p> <p><b>Date/Time: 5/10/18 14:20</b></p> <p><b>Staff Gage (ft): N/A</b></p> <p><b>Location:</b> N 46.95066 W 114.20983</p> <p><b>Comments:</b> Looking northwest. Southwest corner of HP2.</p>	
<p><b>Site: Photo Point 2</b></p> <p><b>Date/Time: 5/10/18 14:25</b></p> <p><b>Staff Gage (ft): N/A</b></p> <p><b>Location:</b> N 46.951097 W 114.213278</p> <p><b>Comments:</b> Looking east. South of HP2.</p>	

**Site: Photo Point 3**  
**Date/Time: 5/10/18 14:25**  
**Staff Gage (ft): 1.65**  
**Location:**  
N 46.95146  
W 114.21378  
**Comments:**  
Looking northwest. West side of HP2, second staff gage. River is turbid.



**Site: Photo Point 4**  
**Date/Time: 5/10/18 14:35**  
**Staff Gage (ft): N/A**  
**Location:**  
N 46.95341  
W 114.21720  
**Comments:**  
Looking north. West side of HP2.

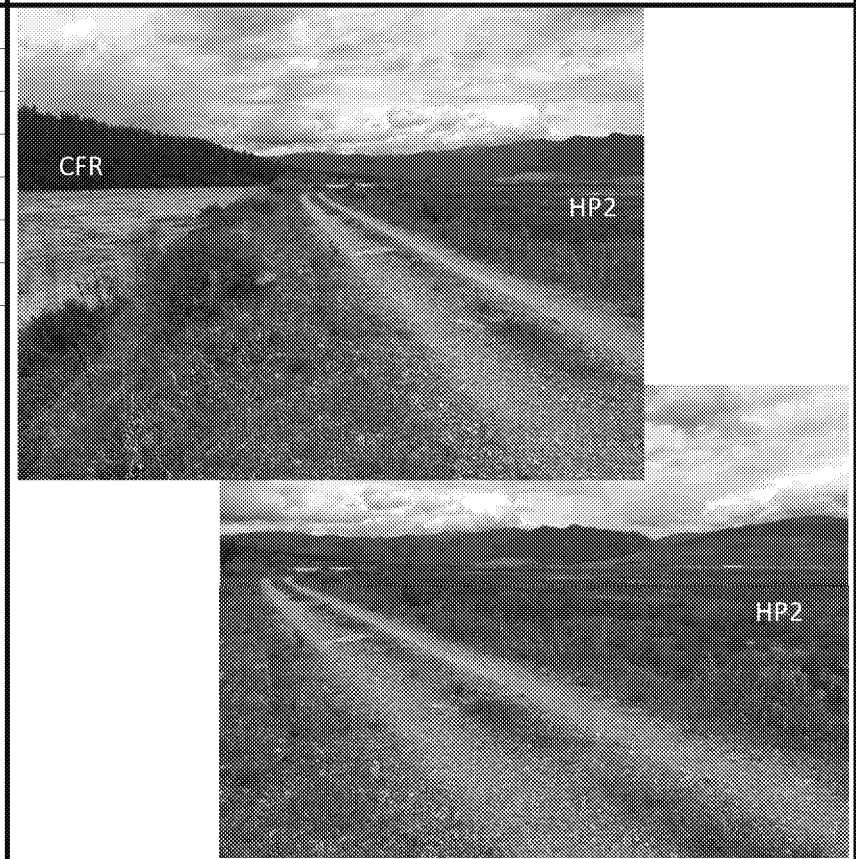


PHOTO LOG

**Site: Photo Point 5**  
**Date/Time: 5/10/18 14:40**  
**Staff Gage (ft): Below gage**  
**Location:**  
N 46.95862  
W 114.21883  
**Comments:**  
Looking south. Located at outfall 1, west side of HP2/HP7. Gage installed on concrete structure on 7/27/17.



**Site: Photo Point 6**  
**Date/Time: 5/10/18 14:42**  
**Staff Gage (ft): N/A**  
**Location:**  
N 46.96022  
W 114.21975  
**Comments:**  
Looking north. Southwest side of HP11.

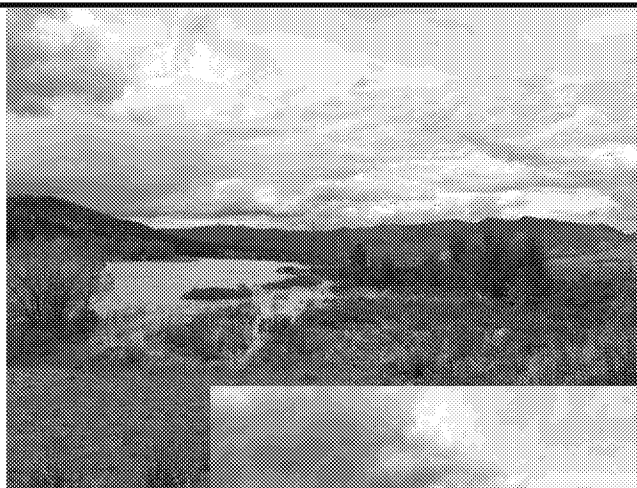
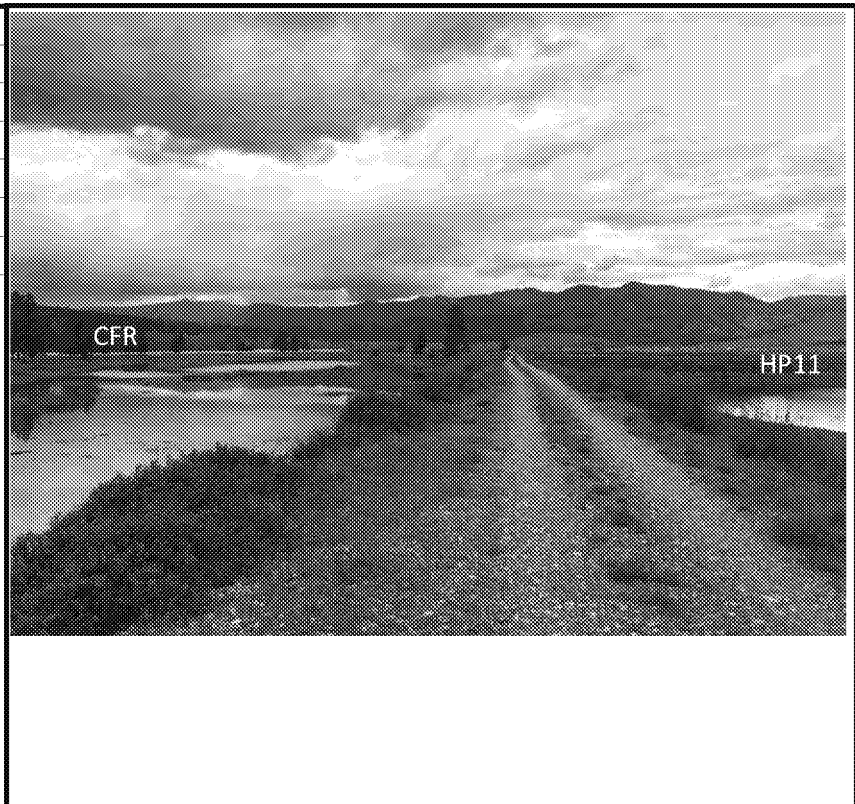


PHOTO LOG

**Site: Photo Point 7**  
**Date/Time: 5/10/18 14:45**  
**Staff Gage (ft): N/A**  
**Location:**  
 N 46.96448  
 W 114.22173  
**Comments:**  
 Looking north. West side of HP11.



**Site: Photo Point 8**  
**Date/Time: 5/10/18 14:50**  
**Staff Gage (ft): Below gage**  
**Location:**  
 N 46.97270  
 W 114.22433  
**Comments:**  
 Looking north. West side of HP12.

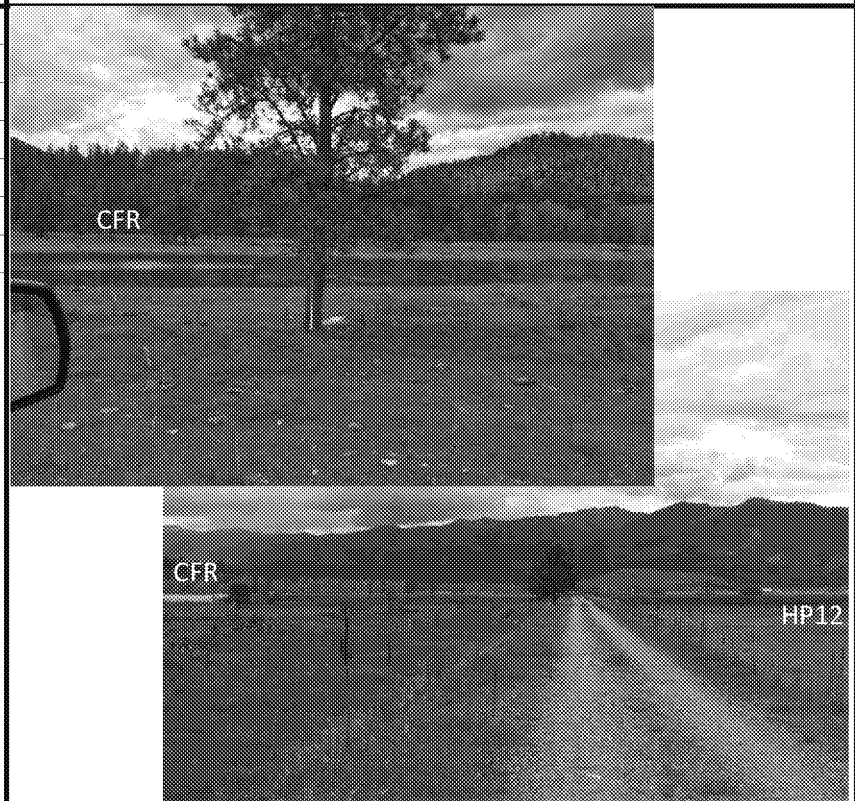



PHOTO LOG

<b>Site:</b> Photo Point 9/CFR-2	
<b>Date/Time:</b> 5/10/2018 15:00	
<b>Staff Gage (ft):</b> above gage	
<b>Location:</b>	
N 46.97682	
W 114.22689	
<b>Comments:</b>	
Looking north. West side of HP13a. River gage submerged. A transducer is present at this gage site and stage data will be collected when the gage becomes accessible.	



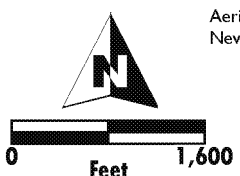
Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

\*Floodplain Source:  
As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

**Notes**

- |                                   |                            |
|-----------------------------------|----------------------------|
| AG - Agricultural Land            | P - Settling Pond          |
| AB - Aeration Stabilization Basin | SB - Spoils Basin          |
| CFR - Clark Fork River            | SPP - South Polishing Pond |
| CL - Clarifier                    | SWB - Solid Waste Basin    |
| FP - Floodplain                   | WVR - West of River        |
| HP - Holding or Storage Pond      |                            |
| IB - Rapid Infiltration Basin     |                            |
| NPP - North Polishing Pond        |                            |

**Clark Fork River Stage Monitoring Sites  
Former Frenchtown Mill Site  
Missoula County, Montana  
FIGURE 1**



**NewFields**