

# Lake 4, West Lake and A-Frame Dam Rehabilitation

## Weekly Construction Update Report

9/23/2019 to 9/27/2019

Date: 10/02/2019

Project Owners: Boulder County and St. Vrain & Left Hand Water Conservancy District

Location: Boulder County Open Space west of Hygiene, CO

Contractor: Kirkland Construction

Weather & Site Conditions: Clear, warm and dry

By: Obadiah Broughton, Boulder County



### Work in Progress/Completed

1. Dewatering operations to remove surface water continued in West Lake and Lake 4. One of the two floating pumps was taken offline in West Lake as water levels had receded significantly. The discharge line was expanded to the facilitate the groundwater dewatering efforts within the flood debris in the basin of Lake 3's floor at the western extent of the project. There are three submersible pumps within two well points and a sump hole in Lake 3 floor. As needed channels are being excavated to allow surface water to flow to the pumps in West Lake.
2. Kirkland's crew re-arranged the staging areas, added additional limits of disturbance fencing and stormwater control measures.
3. The first Construction Stormwater Permit site inspection was completed on 9/27/2019.
4. Long lead items in fabrication.

### Upcoming Work

1. Continued dewatering of surface and ground water with in West Lake, Lake 4 and Lake 3. Installation of additional pumps and discharge pipelines as needed. Shift will focus to remove nuisance water and lowering ground water to facility the beginning of clear and grub efforts.
2. Continued installation of construction fencing and stormwater control measures.
3. Surveying : Project controls , construction stake out and baseline contour takeoff.



Looking west: West Lake's surface water has receded significantly on 9/26/2019.



Looking east: West Lake's surface water has receded significantly on 9/26/2019.

# Lake 4, West Lake and A-Frame Dam Rehabilitation

## Weekly Construction Update Report

4. Continued mobilization of equipment as needed.
5. Clearing and grubbing once survey is established.

### Additional Notes

1. Water quality testing is being conducted on a weekly basis at the dewatering terminal discharge outfall into St. Vrain Creek. Additionally, Kirkland and BCPOS staff are monitoring control measures at discharge outfall.
2. Project website: <https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



East bank of West Lake looking west: Daily staking to visually track the lowering of the surface water on 9/25/2019.



New 6' pump installed to facilitate groundwater removal in the Lake 3 floor.



Looking north in Lake 3's floor at the western extent of the project: A submersible pump installed in a well removing subsurface water. .