

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

## Weekly Construction Update Report

9/16/2019 to 9/20/2019

Date: 9/24/2019

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. Continued mobilization/delivery of project equipment and materials necessary to set up staging areas, limits of disturbance fencing, dewatering operation and stormwater control measures.
2. Dewatering operation is in full swing in West Lake and Lake 4 with two floating pumps in West Lake. In preparation for the next phase of dewatering, three well points have been established within the flood debris in the basin of Lake 3 at the western extent of the project. These well points will be used to facilitate control of groundwater. An additional 6" HDPE dewatering discharge pipe is in the process of being welded/fused and it will be connected to submersible pumps within these well points.
3. Construction fence installation for delineating limits of disturbance completed on western half of the northern boundary of the project site from low-water crossing past the main staging area and along two-track access road above and north of West Lake. Construction fencing on eastern half of the northern boundary of the project.
4. Silt fence, an erosion control measure, is in the process of being installed at appropriate locations such as the main staging area above Lake 3 and Lake 4 and at necessary spots along two-track access road above and north of West Lake.
5. 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 and installing correcting control measure at discharge outfall as needed.



HDPE Pipe Welder in the Lake 4 Staging Area welding/fusing more discharge pipe.



Looking west: Installed Vehicle Tracking Control and construction fencing at project access points on N.61<sup>st</sup> near A-Frame Pond.

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### Upcoming Work

1. Continued dewatering of West Lake and Lake 4. Installation of additional pumps and discharge pipelines as needed.
2. Continued installation of construction fencing and stormwater control measures.
3. Establishment of survey control.
4. Continued mobilization of equipment as needed.
5. Clearing and grubbing once survey is established.

### Additional Notes

1. As of Friday 9/20/2019, West Lake's surface water was down approximately 50% and Lake 4's was about 75% withdrawn.
2. Colorado Parks and Wildlife staff salvaged additional recreational fish species this week from West Lake and transferred them to other lakes and ponds outside the project area.
3. Kirkland and BCPOS staff created photo point locations to establish baseline site conditions (pre-construction). Recurring photos will be taken from these photo points to document construction throughout the project.
4. Project website: <https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



East bank of West Lake: Daily staking to visually track the lowering of the surface water.



Looking north: Installed silt fence (ECM) between two-track access and the Foothill Outlet ditch about West Lake.

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Looking southwest: Lake 4 showing lowered surface water elevation on Sept 19, 2019.



Looking southwest: Lake 4 showing lowered surface water elevation on Sept 19, 2019.



Looking east: West Lake showing lowered surface water elevation on Sept 19, 2019.



Looking southeast: West Lake showing lowered surface water elevation on Sept 19, 2019.