

Lake 4, West Lake and A-Frame Dam Rehabilitation

Weekly Construction Update Report

10/7/2019 to 10/11/2019

Date: 10/16/2019

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, snow on Thursday

Update by: Obadiah Broughton, Boulder County



Work in Progress/Completed

1. Dewatering operations to remove surface water and control nuisance water continued in Lake 4 as well as controlling the groundwater within the flood debris in the basin of Lake 3's floor at the western extent of the project.
2. Clearing and grubbing began in the Lake 3 embankment and lake 4 sediment areas.
3. Surveying continued to establish project controls, construction stakeout and baseline contour topo.
4. Long lead items are in fabrication.
5. A snow storm hit (~2") on Thursday 10/10 and slowed the surveying and clear/grub efforts a bit.
6. On Friday, Kirkland was issued a County Building Permit for their mobile job site trailer.

Upcoming Work *(One to three week look ahead)*

1. Continued dewatering to remove nuisance water and lowering ground water to facilitate the beginning of clear and grub efforts and construction. Installation of additional pumps and discharge pipelines will occur as needed.
2. Surveying: Project controls, construction stake out and baseline contour topo.
3. Continued mobilization of equipment as needed.



Looking west: West Lake has been drawn down to the point that it is being used as a water collection area.



A new dozer was mobilized to the project site to facilitate clearing/grubbing.

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4. Begin demo if the Foothills ditch and the West Lake Dam embankment.
5. Clearing and grubbing in the lake bottoms and all work areas and strip/stockpile topsoil at the West Lake Dam Embankment.
6. Begin dewatering efforts in A-Frame Pond.
7. Demo existing Lake 4 structures.
8. Build haul roads in lake bottoms to facilitate sediment removal and work.

Additional Notes

1. Weekly construction process meeting are occurring on Tuesdays to update County staff, project partners and design groups.
2. Weekly water quality testing occurred on Tuesday 10/8 at the dewatering terminal discharge outfall into St. Vrain Creek.
3. Additionally, Kirkland and BCPOS staff are monitoring control measures at discharge outfall.
4. Project website for updates and information:
<https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



Looking southwest: Clearing and grubbing trees in the Lake 4 sediment area.



Looking west: Cleared trees in the Lake 4 sediment area.