

Lake 4, West Lake and A-Frame Dam Rehabilitation

Weekly Construction Update Report

9/30/2019 to 10/4/2019

Date: 10/09/2019

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, Lake 4 as well as the groundwater within the flood debris in the basin of Lake 3's floor at the western extent of the project. West Lake has been drawn down to the point that it is being used as a collection area. Trenches and sumps were incorporated to pump nuisance water to West Lake. The large pumps in West Lake continue to deliver the water to the settling tanks and outfall area.
2. A jobsite walk occurred with Boulder County Plant Ecology staff and Kirkland's Site Engineer to discuss topsoil removal and stockpile and clearing and grubbing of small trees in lake bottoms.
3. Surveying : Project controls points were established.
4. Long lead items are in fabrication.

Upcoming Work *(Three week look ahead)*

1. Continued dewatering to remove nuisance water and lowering ground water to facility 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 takeoff.
3. Continued mobilization of equipment as needed.
4. Clearing and grubbing in the lake bottoms and all work areas and strip/stockpile topsoil.



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



Looking south: Installing a new pump in Lake 4 on 10/3/2019.

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5. Begin dewatering efforts in A-Frame Pond.
6. Demo existing Lake 4 structures and West Lake siphon structure.
7. 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. 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.
3. Project website: <https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



Kirkland and County staff discussing upcoming clearing and grubbing and topsoil removal/stockpile efforts.



Looking south: An excavated trench to facilitate groundwater removal in the Lake 3 floor.



Looking north: An excavated trench to facilitate groundwater removal in the Lake 3 floor.