

Lake 4, West Lake and A-Frame Dam Rehabilitation

Weekly Construction Update Report

10/14/2019 to 10/18/2019

Date: 10/23/2019

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

Update by: Obadiah Broughton, Boulder County



Work in Progress/Completed

1. Continued dewatering operations to remove nuisance water in Lake 3 and Lake 4.
2. Clearing and grubbing continued in the Lake 3 embankment and lake 4 sediment areas.
3. Clearing and grubbing and topsoil salvage was completed at the top and west face of West Lake Dam.
4. Foothills Ditch structure was removed from West Lake Dam
5. Construction of haul roads and work areas were started across the bottom of West Lake with fill from West Lake Dam.
6. Surveying continued to establish project controls, construction stakeout and baseline contour topo.
7. Clearing/grubbing and topsoil salvage occurred at the West Lake Dam embankment.
8. Demolition of the Foothills Outlet ditch and excavation of the West Lake Dam Embankment began.

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

1. Clearing and grubbing in the lake bottoms and all work areas and strip/stockpile topsoil as appropriate.
2. Continued demolition/excavation of West Lake Dam embankment and begin concrete forming for West Lake. Outlet structure.
3. Begin excavating in Lake 4 and Lake 3 work areas.



Looking southwest on 10/15: Removal of Foothills Ditch infrastructure structure from West Lake Dam.



10/15: Removal of Foothills Ditch infrastructure structure was removed from West Lake Dam.

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4. Demo existing Lake 4 manhole.
5. Continue to haul roads in lake bottoms and adjacent to Lake 4 Dam spillway to facilitate sediment removal and work.
6. Begin Lake 4 sediment excavation.
7. Continued dewatering operations to remove nuisance water in Lake 3 and Lake4.
8. Surveying: more construction stake out and finish up baseline contour topo.
9. Continued mobilization of equipment.

Additional Notes

1. Erosion control measures were inspected by Boulder County Development Review staff on 10/16.
2. Weekly construction process meeting occurred on Tuesday 10/15.
3. Weekly water quality testing occurred on Tuesday 10/15 at the dewatering terminal discharge outfall into St. Vrain Creek.
4. Additionally, Kirkland and BCPOS staff are monitoring control measures at discharge outfall.
5. Project website for updates and information:
<https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



Looking west on 10/15: Clearing and grubbing and topsoil salvage on West Lake Dam embankment.



Looking southwestwest on 10/15: Clearing and grubbing and topsoil salvage on West Lake Dam embankment.

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Looking north: West Lake Dam and Foothills Ditch demolition on 10/16.



Looking south: West Lake Dam and Foothills Ditch demolition on 10/16.



Looking west: West Lake Dam demolition.



Looking east: West Lake Dam demolition and work area prep.