

Lake 4, West Lake and A-Frame Dam Rehabilitation

Weekly Construction Update Report

Date: 3/3/2020

2/17/2020 to 2/21/2020

Location: Boulder County Open Space west of Hygiene, CO

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

Construction Contractors:

Kirkland Construction (Prime Contractor)

Lobato Construction (Sub-contractor)

Design Engineers:

Lake 4 - Engineering Analytics (EA)

West Lake and A-Frame - Applegate Group (AG);

Lake 4 Outlet Pipeline - Deere & Ault (DA)

Weather & Site Conditions: Snow events, snow on ground, cold weather

Update by: Obadiah Broughton, Boulder County



2/18: Looking west the Lake 4 outlet towers

Work in Progress/Completed

1. Winter weather conditions continued to shut down the vast majority of active construction work on the project for the week, however some prep work was accomplished on the West Lake outlet pipe.
2. A small Kirkland crew was able to anchor and place the West Lake outlet pipe to the concrete foundation within the outlet encasement formworks and a small Lobato crew was able to begin finalizing the forms around the outlet pipe after Kirkland set the pipe. This work was accomplished with the desire to begin pouring the concrete encasement in Monday 2/25/2020.
3. Maintenance activities to maintain dewatering pumps and generators, site conditions and stormwater/erosion control measures occurred during this week's work shut down.
4. Continued dewatering operations to remove nuisance water in Lake 4, Lake 4 and West Lake and to drawdown the water levels in A-Frame Pond to facilitate the work.

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Upcoming Work *(One week look ahead. Week of 2/25/2020 to 2/28/2020)*

1. Lake 4 upstream embankment/dam (Lake 3 embankment) - continue placing clay core and zoned embankment fill in completed excavations. Fill upstream embankment with spoils and Lake 4 flood deposited sediment.
2. Lake 4 downstream embankment/dam - continue installing formwork and rebar in the outlet towers and outlet pipe between the towers;
3. Lake 4 flood deposited sediment removal – haul and place excavated material unsuitable for embankment fill into the sediment disposal area within West Lake.
4. Clough and True Ditch – continue reconstruction ditch embankment.
5. West Lake dam – continue formwork and rebar installation for the outlet tower and pipe.
6. West Lake dam – pour concrete in the West Lake outlet pipe encasement
7. Continue dewatering operations to remove nuisance water from project site.

Additional Notes

1. February 18th Weekly construction process meeting was canceled due to weather.
2. N. 61st and 63rd streets between SH 66 and Hygiene Rd. will be temporarily closed to thru traffic for up to two months starting as of Jan. 20.
3. Project website for updates and information:
<https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



2/20: Lake 3 Embankment and clay core trench looking to the southwest.



2/20: Looking east across Lake 4.



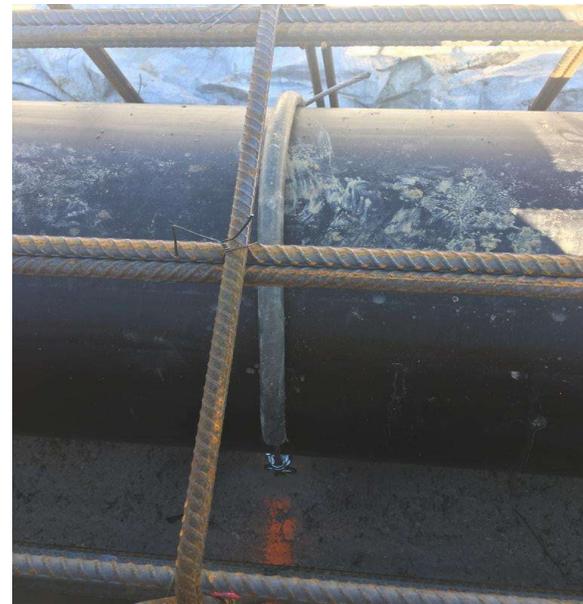
2/20: Looking east. West Lake outlet pipe formworks.



2/18: Setting and anchoring the West Lake outlet pipe.



2/20: Looking west. West Lake outlet pipe and tower formworks.



2/13: West Lake outlet pipe anchored down to foundation.



Longmont, CO
51 °F Fair

Recent Cities

Revelstoke, British Columbia, Canada (weather/ca/revelstoke/50.99,-118.19) Crested Butte, CO (weather/us/co/crested-butte/38.91,-106.97)

40.17 °N, 105.16 °W

Longmont, CO Weather History

52° VANCE BRAND STATION (/WEATHER/US/CO/LONGMONT/KLMO?CM_VEN=LOCALWX_PWSDASH) | [CHANGE](#)

[HISTORY](/HISTORY/DAILY/US/CO/LONGMONT/KLMO) (</HISTORY/DAILY/US/CO/LONGMONT/KLMO>)

- [TODAY](/WEATHER/US/CO/LONGMONT/KLMO) (</WEATHER/US/CO/LONGMONT/KLMO>)
- [HOURLY](/HOURLY/US/CO/LONGMONT/KLMO) (</HOURLY/US/CO/LONGMONT/KLMO>)
- [10-DAY](/FORECAST/US/CO/LONGMONT/KLMO) (</FORECAST/US/CO/LONGMONT/KLMO>)
- [CALENDAR](/CALENDAR/US/CO/LONGMONT/KLMO) (</CALENDAR/US/CO/LONGMONT/KLMO>)
- [HISTORY](/HISTORY/DAILY/US/CO/LONGMONT/KLMO) (</HISTORY/DAILY/US/CO/LONGMONT/KLMO>)
- [WUNDERMAP](/WUNDERMAP?LAT=40.17&LON=-105.16) (</WUNDERMAP?LAT=40.17&LON=-105.16>)

[Daily](#) **[Weekly](#)** [Monthly](#)

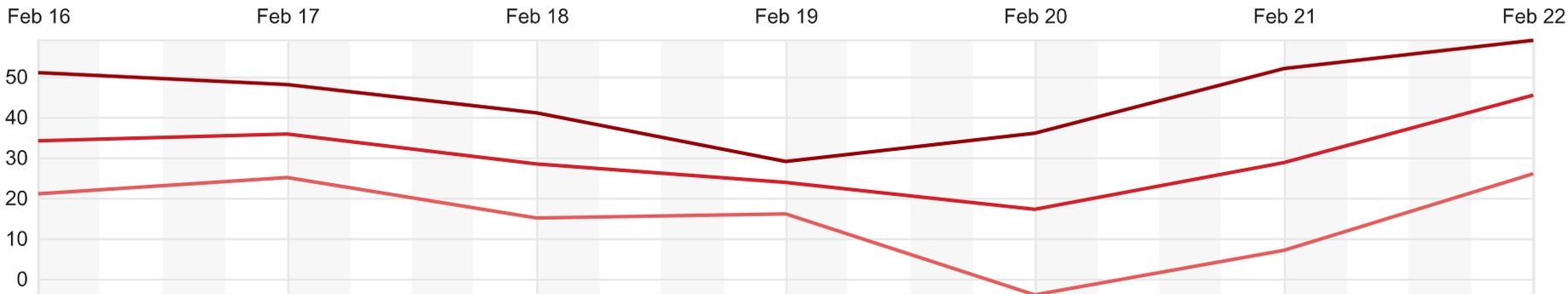
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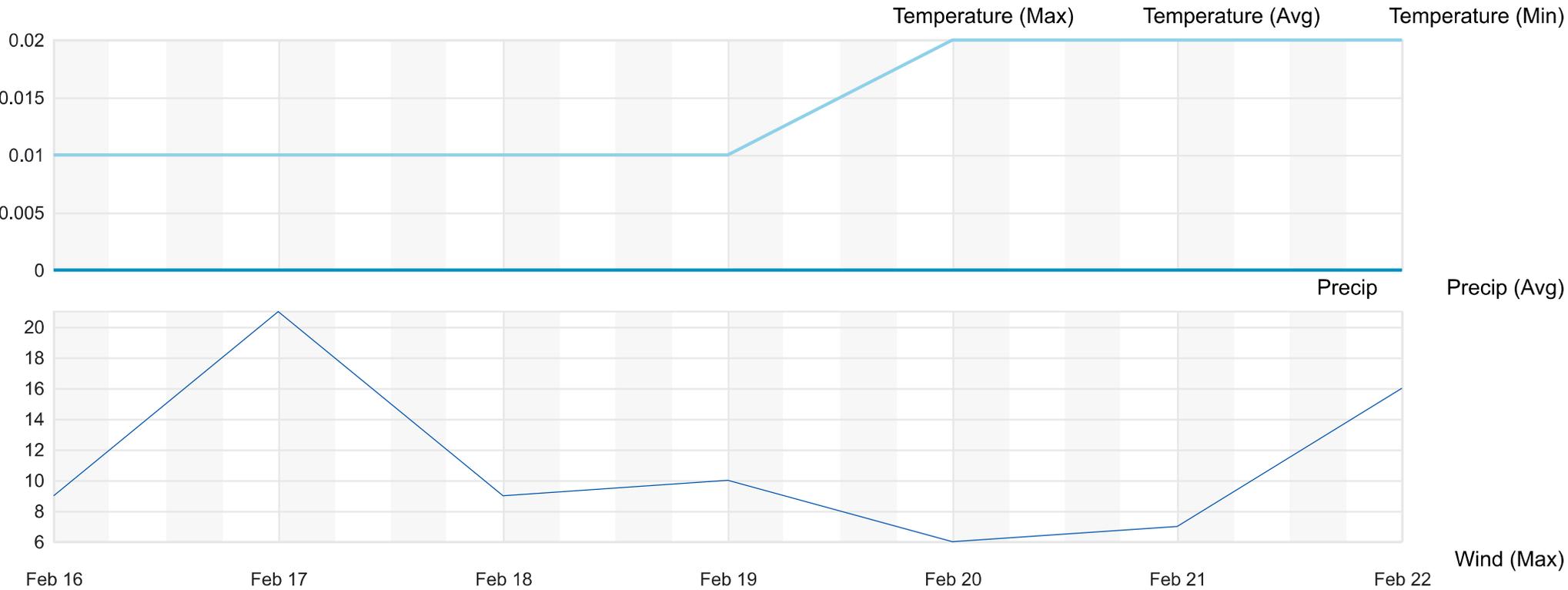
February

17

2020

[View](#)





Summary

Temperature (° F)	Max	Average	Min	▲
Max Temperature	59	45.14	29	
Avg Temperature	45.41	30.49	17.17	
Min Temperature	26	15.14	-4	
Dew Point (° F)	Max	Average	Min	▲
Dew Point	28	15.82	-10	
Precipitation (Inches)	Max	Average	Min	Sum ▲

Temperature (° F)				Max	Average	Min	▲
Precipitation				0.00	0.00	0.00	0.00
Snowdepth				0.00	0.00	0.00	0.00
Wind				Max	Average	Min	▲
Wind				21	3.72	0	
Gust Wind				31	0.74	0	
Sea Level Pressure				Max	Average	Min	▲
Sea Level Pressure				25.37	25.04	24.73	

Daily Observations

Time	Temperature (° F)			Dew Point (° F)			Humidity (%)			Wind Speed (mph)			Pressure (Hg)			Precipitation (in)
	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Total
Feb 16	51	34.1	21	28	21.8	15	78	62.8	34	9	2.6	0	24.9	24.8	24.7	0.00
17	48	35.8	25	27	20.9	11	84	58.5	23	21	6.9	0	25.1	24.9	24.8	0.00
18	41	28.4	15	22	13.7	3	89	58.8	22	9	3.3	0	25.1	25.1	25.0	0.00
19	29	23.9	16	21	15.8	9	86	72.0	57	10	5.4	0	25.4	25.2	25.1	0.00
20	36	17.2	-4	15	6.8	-10	86	67.0	36	6	1.3	0	25.4	25.3	25.2	0.00
21	52	28.7	7	20	11.2	1	81	53.9	17	7	1.7	0	25.2	25.1	25.0	0.00
22	59	45.4	26	28	20.6	13	65	40.5	18	16	4.8	0	25.0	24.9	24.9	0.00