

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 8/16/2017

By: Prashant KC

Location: South St. Vrain, West of Lyons, CO

Project Sponsor: Boulder County

Work in Progress/Completed

1. Completed floodplain Type 6 large woody structure at main channel St. 62+50.
2. Completed construction of riffle crest , face and pool at main channel St. 62+40 and 65+09.
3. Floodplain benching left bank between main channel St. 61+70 to 64+00.
4. Longitudinal profile grading (fill) of overflow channel D.
5. Relocation of existing power pole at main channel St. 87+50 and 71+60 by August 23.
6. Fine grading and offsite disposal of excavated materials from overflow channel C between St. 8+60 to 12+80.
7. Floodplain benching , mass grading and salvaging onsite embedded rocks for several design structures between main channel St. 78+00 to 81+50.
8. Fine grading of channel main cross section between St. 60+50 to 64+00.
9. Main channel mass grading and native stream substrate replacement between St 66+00 to 74+00.
10. Rock screening operation in progress to generate rock mix of specified classes from overflow channel B.
11. Large woody materials sourcing from Swede Lake project.
12. Inert material disposal , compaction and testing at quarry site in progress.



Upstream view of Floodplain benching left bank between main channel St. 61+70 to 64+00



Upstream view of completed riffle at St. 62+40 and adjacent floodplain benching.

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Upcoming Work

1. Harvest willow stakes from overflow channel D and C and surrounding floodplain subject to active grading.
2. Construction of Riffle crest , face and pool at main channel St and 70+50.
3. Construction of floodplain sill at overflow channel C St. 10+50 and 5+20.
4. Preparation to install LWS at main channel 64+00
5. Knick point stabilization rock structures in overflow channel C and E.
4. Stripping native streambed between main channel St. 66+00 to 74+00.
5. Install Beaver Dam analogue posts in overflow channel E St. 3+30 and 1+25.
6. Continue removing and harvesting flagged trees (6-12"and 12" + DBH).
7. Continue survey of channel centerline ,bankline , project limits, instream and floodplain features and as-builts.

Other Notes

1. Conservation measures for MBTA and others in progress.
2. Design clarification and field fit of rock and large woody structures .
3. Adjustments of schedule projections depending on task complexity and available resources.



Downstream view: Fine grading of overflow channel C.



Downstream view: Longitudinal profile grading (fill) of overflow channel D.

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Setting elevation of riffle crest St. 65+09



Downstream view: Main channel mass grading and material haul offsite between St 66+00 to 74+00.



Downstream view : Installation of riffle crest at St. 67+80 .



Harvesting willows and cottonwood poles



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