

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 9/20/2017

By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

1. Staging large woody materials and specified rock mix at different allocated areas for ease of construction .
2. Installation of boulder toe bank stabilization feature between main channel St. 92+94 to 94+30 in progress.
3. Completed installation of two Type 5 large woody structure (priority 1) left floodplain adjacent to main channel St. 97+55 and 98+50 respectively.
4. Fine Grading i.e. low flow , pool and bankline between main channel St. 73+00 to 78+00 in progress.
5. Left floodplain benching fine grading for soil conditioning between main St. 66+50 to 77+00 in progress.
6. Clearing staged materials to complete right floodplain grading between main channel St. 73+50 to 83+00.
7. Completed left floodplain grading and bank contours between main channel 85+00 to 99+50.
8. Completed right floodplain grading and bank contours between main channel 85+00 to 90+00 and 95+00 to 98+50.
9. Completed overflow channel E grading and installation of Knick point stabilization rock structures at St. 5+95.
10. Overflow channel A grading and substrate harvest in progress.
11. Cobble toe bank stabilization feature between main channel St. 66+50 to 76+50 in progress.
12. Completed installation of Beaver Dam analogue posts in overflow channel E St. 3+30



Downstream View: floodplain grading between main channel St. 86+00 to 89+50



Upstream View: overflow channel E grading for installation of Knick point stabilization rock structures at St. 5+95.

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13. Preparation for seeding and plantings in riparian and upland areas per construction plan.
14. In-situ density test of material disposed in Quarry in progress.
15. Harvesting existing creek substrate, floodplain embedded boulders and rock for different rock structures in progress.

Upcoming Work

1. Establish staging areas and delineation of limits of construction for SSV2 between main channel St. 26+50 to 35+50.
2. Install Type 5 Large Woody structure adjacent to right bank main channel St. 97+30.
3. Complete right floodplain grading between main channel St. 73+50 to 83+00 .
4. Construction of riffle crest , face and pool at main channel St.94+20, 96+84 and 99+53.
5. Complete floodplain grading and bank contours between main channel 85+00 to 99+50.
6. Soil Conditioning in constructed floodplain between St. 71+00 to 77+00 left floodplain.
7. Continue construction generated inert material haul offsite to Quarry.
8. Continue survey of channel centerline ,bankline , project limits, instream and floodplain features and as-builts.

Other Notes

1. Verification of instream features and floodplain grading.
2. Field fit of several construction elements to match existing site condition.



Downstream view: Installation of Knick point stabilization rock structures in overflow channel E at St. 5+95



Spreading and mixing chipped woody material in left floodplain between main channel St. 73+50 to 83+00

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Upstream View: Overflow channel A grading in progress.



Downstream View: Boulder Toe construction in progress at upstream confluence of OFC A and main channel.



Downstream View: Type 5 large woody structure left floodplain adjacent to main channel St. 97+55 and 98+50 respectively.



Downstream View: installation of Beaver Dam analogue posts in overflow channel E St. 3+30



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