Reach 4b SSV1 and SSV2

Weekly Construction updates

Date: 10/18/2017 By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

- 1. Complete boulder toe bank stabilization with cobble as filler and face material between main channel St. 92+94 to 94+30 left bank.
- 2. Complete installation of instream Type 2 large woody structure (priority 1) at main channel St. 89+90 right bank and Type 6 at St 88+00.
- 3. Installed two type 4 large woody structure at main channel St 92+80 left bank.
- 4. Construction of riffle crest, face and pool at main channel St. 83+80 and 78+59 in progress.
- 5. Completed floodplain sill in overflow channel A at St. 10+80.
- 6. Completed construction of overflow rock ramp structure in overflow channel A and B at St. 4+98 and 5+05 respectively.
- 7. Spot checks and grade verifications to initiate seeding and plantings in progress.
- 8. Completed construction of riffle crest, face and pool at main channel St.91+43 and 88+02.
- Completed fine grading and soil conditioning in overflow channel A and B.
- 10. Floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75 in progress.
- 11. Completed Fine Grading i.e. low flow, pool and bankline between main channel St. 94+50 to 99+00 in progress.
- 12. Fine Grading i.e. instream structures, low flow, pool, bank line and cross section between main channel St. 94+50 to 60+50 in progress.





Downstream View, Right bank: Creek planform. floodplain benching, fine grading and soil conditioning between main St. 84+50 to 88+00.



Downstream View: Buried rock ramp and confluence of overflow channel A and main channel.

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13. Seeding and plantings in overflow channel F in progress.

Upcoming Work

- 1. Initiate mass grading of SSV2 project reach between main channel St. 26+50 to 35+50.
- 2. Installation of erosion control logs in banklines and slope breaks.
- 3. Final formal walk through with EWP QA team of main and overflow channel instream features, LWS, bank line, channel cross section bank stabilization methods and floodplains.
- 4. Complete floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75.
- 5. Complete main channel fine grading, bank contours, low flow profile instream features and design cross section between main channel St 60+50 to 94+50.
- 6. Haul off excess excavated inert material to Quarry and placement to specification from SSV2 project reach.
- 7. Continue survey of channel centerline ,bankline , project limits, instream and floodplain features and as-builts.

Other Notes

Verification of instream features and floodplain grading.





Downstream view: Type 2 large woody structure at main channel St. 89+90 right bank.



Downstream View: Boulder toe bank stabilization with cobble as filler and face material between main channel St. 92+94 to 94+30 left bank.

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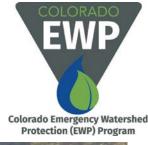
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Perennial tubelings staged for riparian areas.



Downstream View: Soil Conditioning in progress in right floodplain adjacent to main channel St. 86+50.





Spot checks and grade verifications of right flood plain between St. 74+00 to 82+50.



SSV2 staging area with project limits delineated





