

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 8/10/2017

By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

1. Relocation of existing power pole at main channel St. 87+50 and 71+60.
2. Completed construction of large woody structure (Type 2) at main channel St. 52+00.
3. Clearing and grubbing, and removal of debris in overflow channel C between St. 2+80 to 8+60.
4. Mass grading and offsite disposal of excavated materials from overflow channel C between St. 2+80 to 8+60.
5. Floodplain benching , mass grading and salvaging onsite embedded rocks for several design structures between main channel St. 78+00 to 81+50.
6. Completed construction of rock outfall structure, soil conditioning in overflow channel F.
7. Sort, screen, & stockpile creek bed and floodplain materials between main channel St. 60+50 to 64+60.
8. Main channel mass grading and native stream substrate replacement between St. 60+50 to 64+60.
9. Rock screening operation in progress to generate rock mix of specified classes from overflow channel B.
10. Large woody materials sourcing from few Boulder county properties in progress .
11. Inert material disposal , compaction and testing at quarry site in progress.
12. Completed drone flight of entire project .



Downstream view of LWS installation at main channel St. 52+00



Upstream view of completed overflow channel F

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Upcoming Work

1. Construction of Riffle crest , face and pool at main channel St. 62+00 , 67+70 and 70+50.
2. Construction of floodplain sill at overflow channel St. 10+50
3. Preparation to install LWS at main channel 64+00
4. Complete excavation of overflow channel C between St. 2+80 to 12+50.
5. Clearing and grubbing , and coarse fill in overflow channel D.
6. Rough excavation of overflow channel C and E in preparation to install Knick point stabilization rock structures.
4. Clearing and grubbing, removal of flagged trees and stripping native streambed between main channel St. 59+00 to 77+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. Design clarification and field fit of rock and large woody structures .
2. Streamlining methods of measurement and payment.
3. Adjustments of schedule projections depending on task complexity and available resources.
4. Prioritization of large woody structure based on design intent .



Upstream view: Salvaging embedded rocks between main channel St. 78+00 to 81+50.



Material disposal at Quarry site

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Rock screening from overflow channel B



Upstream view: Mass grading of overflow channel C



Downstream view: Installation of riffle crest at main channel St. 62+00 in progress.



Designated rock mix for riffle face at main channel St. 62+00.



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