SVR3 EWP Stream Restoration
Project Weekly Construction Notes: 1/29 to 2/03/2018

Date: 2/06/2018
By: Obadiah Broughton – Boulder County Project Planner
Location: St. Vrain Reach 3 – multiple work sites
Project Sponsor: Boulder County

**Work in Progress/Completed:**
1. Hygiene Road bridge area: completed installation of topsoil over riprap on east side of creek across from Breaches 8 and 9;
2. Breach 1 embankment replacement/repair: continued clay core excavation dewatering, clay deliveries from Swede Lake source, clay processing, and clay placement. Completed clay core excavation and placed clay across the total length (280-ft total length) of trench with 3-ft remaining to final grade;
3. Hauling and mixing topsoil and compost for future placement on finished areas of work including (1) riprap upstream of Hygiene Road, (2) stream banks within stream restoration reach upstream of Hygiene Road and (3) Breach 7 embankment repair;
4. Started and completed installation of Type D Bank Stabilization (root wads) Sta. 38+00 to Sta. 40+85, in-stream features (riffles and pools) installed as well;
5. Started installation of Type D Bank Stabilization (root wads) between Sta. 43+40 and Sta. 45+50. Elevation of this Type D structure was lowered 6” to provide additional natural variability in the channel as well as uncompromised bank protection;
6. Completed the majority of the punch-list at the Breach 7 embankment repair;
7. Completed majority of Stream restoration work from Sta. 24+00 to Sta. 34+00, and moved the stream into this pre-flood channel alignment at Sta. 35+00;
8. Continued channel grading and realignment for stream restoration Sta. 36+00 to Sta. 57+50;

1-29-18: Partially installed Type C Bank Stabilization Sta. 33+00 to Sta. 34+50.

1-29-18: Creek re-entering the pre-flood channel after completion of in-stream features Sta. 25+50 to Sta. 35+00.
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Work in Progress/Completed: cont.
9. Began preparations for Breach 6 repair, excavated majority of clay core trench to grade;
10. Maintenance of access/erosion/pollution prevention measures.

Upcoming Work:
1. Breach 1 embankment replacement including riprap installation;
2. Complete installation of Type D Bank Stabilization (root wads) between Sta. 43+40 and Sta. 45+50 and associated in-stream features;
3. Harvesting of root wads from locations on BCPOS properties near the Breach 1 and Ramey project sites; bringing in root wads from other locations to complete Type D installations;
4. Breach 6 embankment replacement/repair: continued clay core excavation, start clay deliveries from Swede Lake source, begin clay processing and clay placement;
5. Continued stream channel rough grading and realignment upstream to 63rd Street bridge;
6. Continued material sorting for in-stream features;
7. Topsoil and compost deliveries to Hepp site and preparation of soil for topsoil/seed/mulch placement on Breach 7 embankment repair and other locations;
8. Continued development of punch lists for finished sections of work;
9. Delivery of wood straw mulch to Hepp Site;
10. Stabilization of Gage Site until next phase of container plantings;
11. Maintenance of access/erosion/pollution prevention measures.
Notes:
1. ACC continues to work on Saturdays to expedite schedule.
2. A biodegradable hydraulic oil spill occurred on 1/30/18. Approximately 1 to 4 gallons of biodegradable oil spilled into the creek due to a leak from an off-road haul truck. ACC contained the spill and notified CDPHE. CDPHE notified Boulder County Public Health for onsite inspection and reporting on non-hazardous material spill cleanup.
3. Discussion occurred between BCPOS and the design team on ways to enhance floodway and floodplain natural variability without compromising the bank protection design of the Type D (root wad) bank stabilization structures.
4. Root wad source fell through for ACC, discussion to find different sources.

1-31-18: Channel grading and realignment for in-stream features approx. Sta. 44+00.

2-2-18: Partially installed Type D Bank Stabilization (root wads) between Sta. 43+40 and Sta. 45+50, stream flowing again after in-stream features completed.

1-31-18: Clay core installation within the Breach 1 repair embankment.