

COGCC conducted an inspection of the LC11-13 location (Location ID 445209) on August 17, 2017 (Document 682402645). During that inspection, COGCC made the following observations:

Storm Water: Install or repair required BMPs per Rule 1002.f. in accordance with good engineering practices. Corrective actions from the previous inspections were not resolved therefore the corrective action dates on this inspection remain the same from the previous inspections.

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COGCC – 8/17/17



Photo 1. Photo taken from the southeast Tombstone pad, facing West. Sediment discharge observed beyond the outlet area of the sediment trap as shown in this photo. Does not appear the wattle BMP beyond the outlet area of the sediment trap is preventing sediment discharge from location. Sediment trap has not been enlarged since the previous inspection on July 11, 2017.

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Photo NBL1. The sediment trap was enlarged and extended to capture more sediment. The berms were re-compacted and the outfall was maintained

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Photo 2. Photo taken from the entrance of the Tombstone pad, along the east side, facing North. Sediment trap has been installed to capture stormwater runoff from the access road. Gully erosion occurring along the east access road entrance (red circle)- refer to Photo 3.

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Photo NBL2. Rip rap was installed on the side of the lease road to prevent gully erosion. The sediment trap was removed to bring the BMPs inside the disturbance footprint; however, other sediment traps that were enlarged account for the volume lost by removing this sediment trap. The ditch shown will carry runoff to the sediment trap in the SE corner

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Photo 3. Photo taken from the previously mentioned gully erosion along the entrance of the Tombstone pad, facing Northeast.

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Photo NBL3. Rip rap was installed to prevent gully erosion

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Photo 4. Photo taken from the cattle guard of the Tombstone entrance, facing West. Cattle guard in need of maintenance. COGCC staff observed a crew cleaning out cattle guard while at location.

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Photo NBL4. The cattle guard was cleaned out and rock was installed on the edges of the cattle guard.

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Photo 5. Photo taken from the entrance of the Tombstone pad, along the west side, facing East. Gully erosion occurring along the west entrance access road. Wattle BMPs are not preventing sediment discharge from location.

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Photo NBL5. The berm was extended to direct runoff to the cattle guard, straw wattles were maintained, ripping was installed, and the slope was re-graded to approximately 2:1

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Photo 6. Photo taken from the entrance of the Tombstone pad, along the west side, facing North. Sediment discharge observed, as the wattle BMP does not appear to be sufficient.

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Photo NBL6. This pooling was, in part, the result of run-on from the lease road. This area was seeded and crimped, and the depression was filled to prevent pooling

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Photo 7. Photo taken from the cattle guard of the Holliday east entrance, facing East. Cattle guard in need of maintenance.

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Photo NBL7. The cattle guard was cleaned out

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Photo 8. Photo taken from the entrance of the east Holliday entrance, facing East. Sediment trap does not appear to be a sufficient size and does not appear to be constructed with good engineering practices.

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Photo NBL8. This sediment trap was combined with the sediment trap in the SE corner. The ripping was maintained

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Photo 9. Photo taken from the entrance of the east Holliday entrance, facing West. Sediment trap does not appear to be a sufficient size.

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Photo NBL9. The sediment trap now spans the front of pad and is approximately 3.5' deep across the face of pad. The berms were re-compacted and extended North

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Photo 10. Photo taken from the previous photo, facing Southwest. Other BMPs (surface roughening and wattles) have been installed downgradient of the outlet area but may not be sufficient because the sediment trap appears too small.

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Photo NBL10. The outfall for this trap was extended and the trap was enlarged.

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Photo 11. Photo taken from the cattle guard of the Holliday west entrance, facing West. Cattle guard in need of maintenance.

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Photo NBL11. The cattle guard was cleaned out and rock was installed on the sides of the cattle guard

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Photo 12. Photo taken from the entrance of the west Holliday entrance, facing East. Sediment trap does not appear to be a sufficient size. Appears flows have discharged over the embankment berms and around the outlet area.

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Photo NBL12. The trap outfall was moved east to allow proper drainage. The trap was enlarged (depth and length) and the area outside the disturbance seeded and crimped

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Photo 13. Photo taken from the southwest location of the Holliday pad, facing North. Sediment trap does not appear to be a sufficient size and does not appear to be constructed with good engineering practices. Sediment discharge was observed beyond the outlet area of the sediment trap.

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Photo NBL13. The trap was enlarged, the berms were re-compacted, the rock sock was removed, and the area just outside the outfall was seeded and crimped after sediment was recovered