

Inspection Photos

Location Name: Roan Creek Evaporation Pit

Facility ID: #433509 Pit ID: #116525

Inspection Date: September 27, 2018



Photo #1 – Facility sign attached to gate on access road.



Photo #2 – View overlooking facility from NW.

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Photo #3 – Vegetated stockpiles of unidentified soil with gravel, located at SW corner of facility.



Photo #4 – Pit facility sign located at SW corner of pit fence.

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Photo #5 – Stormwater channel on west side of pit, looking NE.



Photo #6 – Erosion of western pit berm and off-site sediment transport into stormwater channel.

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Photo #7 – Apparent sediment pond located at terminus of stormwater channel, located northwest of pit.



Photo #8 – Vegetated soil stockpile located north of pit, view looking SW.

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Photo #9 – Damaged/patched section of fence at NE corner of pit. Note that barbed wire has not been repaired or replaced (red arrow).



Photo #10 –Evidence of erosion (and apparent subsurface soil piping) observed in east pit berm.

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Photo #11 – Berm erosion and off-site sediment transport to east of pit. Stormwater and sediment flow toward mapped surface water feature, Coon Hollow, located approximately 200' east of pit.



Photo #12 – Additional erosion and off-site sediment transport from east pit berm.

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Photo #13 – Erosion and off-site sediment transport from south pit berm.



Photo #14 – Pit liner was covered in salt deposits and stained sediment on inspection date. Composite samples of sediment inside of pit exceeded COGCC Table 910-1 for multiple constituents, including DRO (doc #2144696).

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Photo #15 – Tank berm at SW corner of pit is shallow and eroded. Note produced water tank lacked truck loadout assembly on inspection date.



Photo #16 – Evidence of berm erosion, stormwater flow into anchor trench/beneath liner located at SW corner of pit near inlet from produced water tank.



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Photo #17 –Vegetation growth along anchor trench, pictured on west side of pit, was present along all sides of pit on inspection date.



Photo #18 – Erosion rill on west pit berm resulting from apparent subsurface soil piping and stormwater flow. Note evidence of sediment transport into pit (red arrow).

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Photo #19 – Evidence of sediment transport into pit and mud cracks resulting from apparent pooling of storm water in shallow area at NW corner of pit berm.



Photo #20 – Erosion rills along north pit berm resulting in off-site sediment transport north of pit.

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Photo #21 – Examples of holes observed in pit liner (outlined in red), primarily along north side of pit. Over sixty (60) holes were observed in visible portion of pit liner on inspection date, some of which had been previously patched by operator (red arrow).



Photo #22 – Off-site sediment transport to north of pit (red arrow).

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Photo #23 – Approximately 30’ section of pit liner has been completely separated from pit and was rolled back into place without being sealed or repaired. Note that area of berm formerly underlying pit liner now supports vegetation.



Photo #24 – View of salt and sediment covering lined pit bottom. Liner beneath salt and sediment could not be visibly inspected for integrity issues. Liner integrity issues along pit bottom have been documented under Remediation Project #8494 and Spill/Release ID #443917.

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Photo #25 – Leak detection system located at north end of pit.



Photo #26 – Leak detection system was dry on date of inspection.

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Photo #27 – Erosion rills along east berm of pit suggest apparent subsurface soil piping within berm.



Photo #28 – Unused sign located inside of southern fence line.

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Photo #29 – View along west pit berm from SW corner of pit illustrates: 1) low area in NW corner of pit berm (red arrow) and 2) irregular surface along base of pit berm resulting from apparent sediment transport beneath pit liner (outlined in red).



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