



Technical Analysis and Findings
Utah Coal Regulatory Program

January 18, 2017

PID: C0070035
TaskID: 5345
Mine Name: SUNNYSIDE REFUSE & SLURRY
Title: ROAD S POST CONSTRUCTION UPDATE

Summary

Sunnyside Cogeneration 'Road S Post Construction Update' includes an updated narrative, calculations, and drawings for diversions and culverts reporting to or discharging from Pasture and Coal Pile sediment ponds. The outflow from Pasture Pond has been rerouted to flow through 'BTCA AREA', through culvert Past-C5 and off the permit area in ditch Past-D9. Previously the discharge from Pasture Pond was routed through Coal Pile pond prior to exiting the permit area. The amendment adds 'BTCA AREA'. The runoff from this area used to be captured by the ditch flowing from Pasture to Coal Pile pond, but now it reports to directly to Past-D9 and a sediment fence before being routed offsite.

Deficiencies Details:

[Empty box for deficiencies details]

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Operation Plan

Hydrologic Diversion General

Analysis:

The amendment meets the State of Utah R645 requirements for Diversions.
The amendment provides updated as-built maps and drainage calculations for diversion structures at the mine site. The calculations show culvert Past-C-5 is able to adequately convey runoff discharging from Pasture pond during a 100 year 6 hour event. The calculated velocity in Past-D9 is under 5 fps so it is likely it will be non-erosive.

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Hydrologic Sediment Control Measures

Analysis:

The amendment meets the State of Utah R645 requirements for Sediment Control Measures.
The amendment includes a narrative and designs for the BTCA AREA northwest of Pasture Pond. The amendment shows the very small area of runoff draining to ditch PAST-9 will be treated by a sediment fence prior to exiting the permit area. The map identifies the BTCA structure described in this narrative and designs for the structure are found within the text.

Hydrologic Impoundments

Analysis:

The amendment meets the State of Utah R645 requirements for sediment ponds.

The amendment provides plan view drawing of the Coal Pile sediment pond. The drawing includes a cross-section of the pond and shows the pond will adequately contain and or treat runoff prior to discharging. The pond includes an emergency open-channel spillway along with a drop culvert spillway and a 2" decant pipe.