

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

OK

September 14, 2004

TO: Internal File

FROM: Stephen J. Demczak, Environmental Scientist III/Engineering, Team Lead *SGD by an*

RE: Combining of Existing Culverts, Savage Services Corporation, Savage Loadout, C/007/022, Task ID #2034

SUMMARY:

The permittee has submitted an amendment for the connecting of two culverts. The two culverts were installed underground to access the parking lot. At the present time, there is a diversion ditch that connects the two culverts. The diversion ditch is located next the parking lot and vehicles are being backed into the diversion ditch and getting stuck. The permittee wishes to eliminate this problem.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

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Diversions: General

The permittee has submitted an amendment to connect two underground culverts. The current plan has a diversion connecting the culverts. The diversion is next to the parking lot and vehicles are backing into the diversion and getting stuck. The two culverts are crossovers to access the parking lot and office building.

This change will eliminate about 100 feet of diversion ditch. This request will not change any hydrologic controls. The runoff from the parking lot will still go into the existing ditch below culvert C-13.

The permittee has updated the design calculations using Manning's Equation. This design is P.E. certified. The permittee will install an 18-inch connecting culvert to the existing 18-inch culverts that are located at each end.

Findings:

The permittee has met the minimum requirements of this section.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

Mining Facilities Maps

The permittee has updated the Facilities Map 3-2 showing the location and the connecting of the two culverts. This map is P.E. certified.

Certification Requirements

The permittee has P.E. certified design calculations and facilities map.

Findings:

The permittee has met the minimum requirements of this section.

RECLAMATION PLAN

BONDING AND INSURANCE REQUIREMENTS

Regulatory Reference: 30 CFR Sec. 800; R645-301-800, et seq.

Analysis:

Determination of Bond Amount

The installation of 100 feet of culvert would have an insignificant change to the bonding amount. The permittee is currently over bonded; therefore, no bonding adjustment will be required.

Findings:

The permittee has met the minimum requirements of this section.

RECOMMENDATIONS:

The permittee has met the minimum requirements. This amendment is recommended for approval.