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State of Utah

DEPARTMENT OF NATURAL RESOURCES

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Division of Oil, Gas and Mining

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March 20, 2020

Jaren Jorgensen
Castle Valley Mining, LLC
P.O. Box 475
Huntington, Utah 84528

Subject: Conditional Approval of Chapter 7-14, Castle Valley Mining, LLC, Castle Valley Waste Rock Site, C/015/0036, Task #6070

Dear Mr. Jorgensen:

The above-referenced amendment is approved conditioned upon receipt of 2 clean copies prepared for incorporation. Please submit these copies by April 21, 2020. Once we receive these copies, final approval will be granted.

A stamped incorporated copy of the approved plans will also be returned to you at that time, for insertion into your copy of the Mining and Reclamation Plan.

If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Coal Program Manager

SKC/sqs

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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0150036
TaskID: 6070
Mine Name: CASTLE VALLEY WASTE ROCK SITE
Title: CHAPTER 7-14

Reclamation Plan

Topsoil and Subsoil

Analysis:

The application meets the State of Utah R645 requirements for Soils: Reclamation Plan.

Total depth of cover will be 35 inches. This is less than the 48 inches required by R645-301-553.252. This lesser depth of cover is based on acid/toxic sampling of the waste brought from the Bear Canyon Mine.

MRP Section 731.311 (p. 7-14) describes sampling of the waste. Sampling will be done at the completion of each eighteen inch lift. Four grab samples will be drawn from 0 – 18 inches. Two composite sub-samples will be sent for analysis. This sampling is based upon NRCS guidelines for field sampling.

https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_051273.pdf

An 18 inch lift covering 1.5 acres is equal to 98,010 ft³ or 3,630 CY of waste.

$1.5 \text{ ac} \times 43,560 \text{ ft}^2/\text{ac} \times 1.5 \text{ ft} = 98,010 \text{ ft}^3$ $98,010 \text{ ft}^3 \text{ divided by } 27 \text{ CY/ft}^3 = 3,630 \text{ ft}^3$

That means the 2 composite samples represent about 3.630 CY of waste or 5,096 Tons of waste, given the density of 104 lbs/ft³.

The 106 CY storage area at the Bear Canyon mine site will be cleaned out 34 times to construct an eighteen inch lift over the 1.5 acres.