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ACT/015/018 #2

utah power
& LIGHT COMPANY
MINING DIVISION
P.O. Box 310
Huntington, Utah 84528

RECEIVED
JUN 18 1990
DIVISION OF
OIL, GAS & MINING

June 14, 1990

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Analytical Report/Deer Creek Waste Rock Samples and Sediment Pond Sludge Sample

Dear Ms. Grubaugh-Littig:

Please find enclosed a copy of the analytical report for waste rock samples and sediment pond sludge sample collected October 6, 1989. The report was received by UP&L Mining Division on 6-1-90. The parameters comply with the DC Waste Rock Facility permit and the Title V Coal Program Policy for disposal of sediment pond waste.

If you have any questions, please call 687-9821 ext 263.

Sincerely,

Guy Davis

Guy Davis
Environmental Engineer

GD/do
Enclosure

cc: Dee Jense
Scott Child
Val Payne
File (Waste Rock Sampling & Sediment Pond Cleanout)

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

RECEIVED
FEB 13 1989
DIVISION OF OIL
GAS & MINING
PRICE, UTAH

November 25, 1987

TO: Title V Technical Staff

FROM: Lowell P. Braxton, Administrator LPB

RE: Title V Coal Program Policy for Disposal of Sediment Pond Waste

This memo establishes the procedure our program will use for disposal of sediment pond waste.

Sediment pond waste is the earthen materials which accumulate in sediment ponds that must be cleaned out when the sediment storage level is reached.

These materials can be classified as non-toxic and non-acid forming and disposed of as non-coal waste if the tests noted on the attached table are performed and the values indicated are not exceeded for any of the asterisked parameters. Tests on the attached sheet which are not asterisked are required to interpret the results.

If values from test results do exceed the limits noted on the attached table, then the material must be disposed of in the same manner as excess coal and underground development waste (see UMC/SMC 817.71 et seq,).

djh
0799R/17

Attachment
Memo to Title V Staff
November 4, 1987

PARAMETERS	REPORTED AS	TOXIC LIMIT	SUGGESTED METHODS
*pH		4.5 9.0	ASA Mono. No. 9, Part 2, (2 ed), 1982. Method 10-3.2, page 171, Perform pH on saturated paste.
*Electrical Conductivity (ECe)	mmhos/cm 25°C	8	ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 10.3-3, pages 172-173.
Saturation	%		SP = 100 (total wt of water)/ (wt of oven-dry soil). Wts of water and soil known when making a saturated paste.
*Particle Size Analysis (texture)	% sand, silt, clay		Hydrometer method. Black et al. 1965. Methods of soil analysis. ASA Mono No. 9, Part 1, method 43-5, pages 562-566.
Soluble Ca, Mg and Na	meg/l		ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 10-3.4 pages 173-174.
*Sodium Adsorption Ratio	SAR calculated from soluble Ca, Mg & Na (meg/l)	12(fine texture) 15(coarse texture)	$\frac{Na^+}{(Ca^{2+} + Mg^{2+}/2)^{0.5}}$
*Selenium	Mg/Kg	0.1	Extraction by ASA Mono. No. 9, Part 2 (1 ed), 1965. Method 80-3.2, page 1122. Analyze by Hydride generation for AA or ICP. ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 3-5.5, pages 59-61.
*Boron	mg/Kg	5.0	ASA Mono No. 9, Part 2 (2 ed), 1982. Method 25-9.1, page 443 for extraction and Method 25-5, pages 435-436 for analysis.
*Acid Base Potential as: Total Sulphur (acid potential)	%		US EPA. 1978. EPA - 600/2-78-054. Method 3.2.4, Page 51.
or (neutralization potential)	%	$\frac{\text{Less than -5 tons } CaCO^3}{\text{1,000 tons material}}$	US EPA. 1978. EPA - 600/2-28-054. Method 3.2.3, page 47.
The AP and NP must first be converted to tons $CaCO_3$/1,000 tons overburden material			
*Organic Carbon	%	35%	ASA Mono. No. 9, Part 2, (2 ed),. 1982. 29-3.5.3, Pages 571-573.

1. a. AP = % S x (31.24) = tons $CaCO_3$/1,000 tons material.

   b. NP = % $CaCO_3$ X 10 = tons $CaCO_3$/1,000 tons material.

   c. ABP = NP - AP

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