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ARCO Coal Company  
555 Seventeenth Street  
Denver, Colorado 80202  
Telephone 303 575 7502  
  
Environmental Services

(File) ACT/007/022



Copy to EV  
for review  
JIM

November 18, 1981

DEC 10 1981

Mr. James W. Smith, Jr.  
Coordinator of Mined Land  
Development  
Division of Oil, Gas, and  
Mining  
Utah Department of Natural  
Resources  
1588 West North Temple  
Salt Lake City, Utah 84116

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DIVISION OF  
OIL, GAS & MINING

Dear Mr. Smith:

In response to your letter of October 19 concerning soil stripping at C.V. Spur for additional refuse disposal area, I have enclosed the following:

- 1) soil chemical and physical analysis
- 2) present refuse disposal area
- 3) proposed expanded refuse disposal area
- 4) area stripped within proposed expanded refuse disposal area
- 5) location of soil sampling points within the expanded refuse disposal area

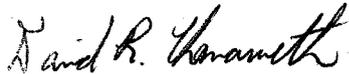
As you will see, items 2-5 are all displayed on the same map.

To answer your questions concerning sampling of Map Unit ChE2 Chipeta Silty Clay and Map Unit Sa Saltair Silty Clay, I discovered these sites were not sampled for a very good reason. Our soils consultant and myself decided not to sample map unit ChE2 at the time the area was mapped since this soil occurs on areas never to be disturbed. As for Map Unit Sa, this soil is extremely salty throughout its horizon and normally barren of vegetation. Due to the extremely poor properties of salty soils our soils consultant recommended that we avoid stripping salty spots based on visual observations. Therefore, I do not see any need to take soil samples from these areas.

Mr. James W. Smith, Jr.  
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Page Two

I hope this information will answer your questions concerning soil stripping at C.V. Spur. However, if you need additional clarification, please don't hesitate to call me at 303-575-7506.

Sincerely,



David R. Chenoweth  
Environmental Coordinator

DRC:psh  
Enclosure

cc: Dan Guy  
Ken Wangerud

New Refuse Disposal Area  
 Soil Chemical and Physical Properties

Sample depth (in)	PH	EC	SAT%	NA	CA	MG	SAR	ESP	TEXTURE %			P	K	LIME
									SAND	SILT	CLAY			
HOLE #1														
NO SOIL DUE TO AMOUNT OF COAL FINES AND CLOSENESS OF SHALE TO THE SURFACE														
HOLE #2														
0-6	7.93	2.8	60.4	30.4	15.9	7.2	8.2	10.7	5.0	51.5	43.5	1.10	174	ST
6-12	7.91	2.9	48.1	33.3	12.5	8.9	10.2	12.1	17.0	46.9	36.1	0.62	146	ST
SHALE														
HOLE #3														
0-6	7.86	2.8	49.2	10.7	31.0	11.4	2.3	2.1	15.3	45.1	39.6	1.14	240	ST
6-12	7.92	1.4	52.4	10.8	9.4	3.3	4.3	4.8	13.4	44.1	42.5	0.54	110	ST
12-18	7.93	1.7	51.2	10.4	13.0	3.6	3.6	3.9	14.6	42.5	42.9	0.56	92	ST
SHALE														
HOLE #4														
0-6	7.85	2	46.0	16.0	16.6	4.4	4.9	5.7	6.1	43.1	50.8	1.36	188	ST
SHALE														

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New Refuse Disposal Area  
 Soil Chemical and Physical Properties

Sample depth (in)	PH	EC	SAT%	NA	CA	MG	SAR	ESP	TEXTURE %		CLAY	P	K	LIME
									SAND	SILT				
HOLE #5														
0-6 SHALE	7.74	4.0	49.2	47.5	48.3	9.7	8.8	10.5	7.0	44.4	48.6	0.78	128	ST
HOLE #6														
NO SOIL DUE TO AMOUNT OF COAL FINES AND CLOSENESS OF SHALE TO SURFACE														
HOLE #7														
0-6 SHALE	7.61	3.9	47.4	27.5	29.8	7.5	6.4	7.5	13.1	42.5	44.4	1.32	266	ST
HOLE #8														
NO SOIL DUE TO AMOUNT OF COAL FINES AND CLOSENESS OF SHALE TO SURFACE														
HOLE #9														
NO SOIL DUE TO AMOUNT OF COAL FINES AND CLOSENESS OF SHALE TO SURFACE														
HOLE #10														
0-6 SHALE	7.95	6.4	51.6	64.2	21.1	7.0	17.1	19.4	15.3	46.6	38.1	0.72	144	ST

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ENVIRONMENTAL AND PERMITTING SERVICES



LEGEND



sample point location



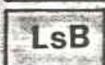
soil boundary



salty spots less than 1.5 acres



site boundary



typical mapping unit with slope class (see text)



STRIPPABLE AREA



NEW REFUSE DISPOSAL AREA

*Existing refuse disposal area*

# SOIL INVENTORY CASTLE VALLEY SPUR

July 80  
scale 1" = 500'



prepared for:  
**ARCO COAL COMPANY**

prepared by:  
**JAMES P. WALSH & ASSOCIATES INC.**  
465 Grape Avenue, Boulder, Colorado 80302