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**PACIFIC POWER • UTAH POWER**

324 South State  
P.O. Box 26128  
Salt Lake City, Utah 84126-0128

**PACIFICORP**  
ELECTRIC OPERATIONS GROUP

March 6, 1991

**RECEIVED**  
MAR 08 1991

DIVISION OF  
OIL, GAS & MINING

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**

Dear Pamela:

I am enclosing a copy of the analytical report for waste rock samples collected on 11/21/90. The parameters comply with the Deer Creek Waste Rock Facility permit.

If you have any questions, please call Guy Davis at 653-2312 or myself at 220-4584.

Sincerely,

*Guy Davis For*

J. Blake Webster  
Permitting Administrator

cc: File

*Copy Henry (all)  
File OCT/015/018 #2*

CERTIFICATE OF ANALYSIS

MAR 6 1991

**RECEIVED**

DATE: 03/01/91

PACIFICORP FUEL RES.  
% GUY DAVIS  
P.O. BOX 1005  
HUNTINGTON, UT 84528

91-003999

SAMPLE: ROCK SAMPLES FROM WASTE ROCK SITE RECEIVED 1-29-91 FOR ANALYSIS STARTING AT 11:30 A.M. UNDER PO #JS-319851.

SAMPLE DATE 11/21/90

	REFUSE #1	REFUSE #2	REFUSE #3	REFUSE #4
1-Clay % USDA 18	<1	<1	<1	<1
1-Sand % USDA 18	15	<1	12	8
1-Silt % USDA 18	5	<1	3	2
Boron Water Extractable ppm	5.118	5.753	6.381	5.441
CO3 Equivalency Test %	25.3	24.9	25.7	25.3
Calcium as Ca ppm SW6010	83,499	115,492	95,185	89,667
Cond. umhos/cm EPA 120.1	1,175	341	3,570	2,210
Magnesium as Mg ppm SW6010	20,234.96	36,021.98	29,788.62	21,364.88
Non-Sulfate Sulfur %	.01	<.01	.01	<.01
Organic Sulfur %	.01	<.01	.01	<.01
Pyritic Sulfur %	<.01	<.01	<.01	<.01
Rock Fragments %	80.00	99.00	85.00	90.00
Saturation %	44.60	40.40	35.70	34.80

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

**RECEIVED**

CERTIFICATE OF ANALYSIS

**MAR 06 1991**

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90-003999

REFUSE REFUSE REFUSE REFUSE  
#1 #2 #3 #4

	REFUSE #1	REFUSE #2	REFUSE #3	REFUSE #4
Selenium Water Extract. PPM	<.063	<.047	<.058	.057
Sodium Absorption Ratio	.013	.008	.011	.008
Sodium as Na PPM SW6010	896.11	704.12	842.38	600.50
Sulfur as S (Tot.) %	.150	.260	.650	.710
Total Soluble Solids PPM	160	22.7	886	1,900
PH Units EPA 150.1	7.00	6.80	7.60	10.20

  
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FORD ANALYTICAL LABORATORIES

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