



Coastal
The Energy People

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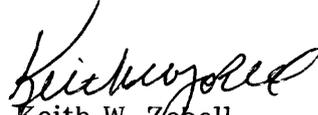
August 30, 1991

Daron Haddock
Permit Supervisor
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Daron Haddock:

Attached is a copy of the Waste Rock analysis for the sample collected in May 1991. An additional sample was collected in July. We will send you those results as soon as we receive them.

Sincerely,


Keith W. Zobell
Environmental Engineer

KWZ:lm

Attachment

RECEIVED

SEP 03 1991

DIVISION OF
OIL GAS & MINING

Utah Fuel Company

A SUBSIDIARY OF THE COASTAL CORPORATION
P. O. BOX 719 • HELPER UT 84526 • 801/637-7925 • FAX 801/637-7929
SALT LAKE 801/596-7111



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TELEPHONE: (801) 653-2311
FAX: (801) 653-2479

August 27, 1991

UTAH FUEL COMPANY
P.O. Box 719
Helper Utah 84526

Sample identification by
UTAH FUEL COMPANY

Kind of sample reported to us	Soil	Skyline Soil
Sample taken at	Utah Fuel	
Sample taken by	Utah Fuel	
Date sampled	-----	
Date received	June 3, 1991	

Analysis report no. 59-132420

SOIL ANALYSIS

pH	8.2 units	Rock Fragments	3.39 %
Conductivity	4.95mmhos/cm	Total Nitrogen	0.50 %
Saturation %	20.0	Nitrate-nitrogen	1.5 mg/kg
		Organic Carbon	35.99%

PARTICLE SIZE ANALYSIS

% Sand	40
% Silt	38
% Clay	22

Total Available Selenium	.02 mg/kg
Total Available Boron	9.0 mg/kg

SOLUBLE CATIONS

Calcium	21.0 meq/l
Magnesium	5.59 meq/l
Sodium	8.70 meq/l

Available Water Capacity	13.9 (1/3)
	9.1 (15)

Sodium Adsorption Ratio 5.01

ACID BASE POTENTIAL

Maximum Acid Potential	11.25 tons CaCO ₃ / 1000 tons
Neutralization Potential	140 tons CaCO ₃ / 1000 tons
Acid-Base Potential	128.75tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory