



# ECKHOFF, WATSON and PREATOR ENGINEERING

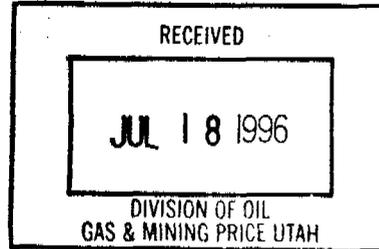
1967 1992

**25**  
 YEARS OF  
 EXCELLENCE

Engineering • Environmental Science • Surveying • Construction Administration

July 2, 1996

Danny Mattingly  
 Sunnyside Cogeneration Associates  
 PO Box 10  
 East Carbon, UT 84520  
 (801) 888-4476



## Principals

David W. Eckhoff, PhD, PE  
 Kenneth W. Watson, PE, LS  
 E. Gregory Thorpe, PE  
 Robert L. Siegel, PhD  
 James V. Olson, PE

## Associates

Frederick C. Duberow, PE  
 Thomas W. Johnson, CPA  
 Douglas L. Gilmore, PE  
 Karen K. Nichols, PE  
 Robert Q. Elder, PE  
 Alane Boyd, PE  
 Dee Hansen, PE

RE: 2nd Quarter 1996 Certified Inspection of Impoundments, Refuse Pile & Excess Spoil Area

Dear Danny,

On June 26, 1996, EWP completed the Second Quarter Inspection of SCA's Impoundments, Refuse Pile, and Excess Spoil Disposal Area. These areas appeared stable, with no structural weakness or hazardous conditions. In general, the site appears in good condition and well maintained.

The south inlet ditch to the Clear Water Pond (004) showed signs of significant channel erosion. This erosion did not create any dangerous conditions and did not contribute to sedimentation outside of the permitted area. All eroded sediment from this area appears to have been captured by the sediment pond. Options for repair and stabilization were discussed with Rusty Netz. He indicated an intent to complete this work within the next month.

Excess Spoil Materials disposed during the Quarter (boulders and reject) appear to have been placed in accordance with the design and permit requirements. Samples of reject material taken by Rusty Netz in April were analyzed for % Moisture, % Ash and Btu/lb. The analysis indicates that the material is classified as high ash/low fuel material as described in the Permit Chapter 9. The permit requirements concerning the Excess Spoil Disposal Area require that material placed in the Disposal Area be sampled and analyzed for acid/toxic parameters at a frequency of one sample per acre per four foot lift. The quantity of material placed during this Quarter corresponds to one four foot lift over approximately 1/4 acre. As you continue to place material in the Disposal Area and you approach the one acre volume, it will be necessary to analyze a sample for the entire list of parameters itemized in the Permit.

Please feel free to call me at (801) 261-0090 if you have any questions.

Sincerely,

S. Scott Carlson, P.E.  
 Project Engineer

Enclosure: 2nd Quarter Inspection Report

cc: Alane Boyd (letter only)  
 Walt Strotz (letter only)  
 Bob Evans (letter only)  
 Doug Burnham (letter only)  
 Rusty Netz (letter only)

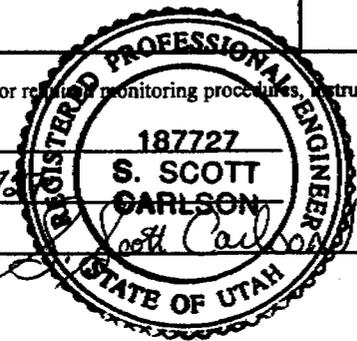
SUNNYSIDE COGENERATION ASSOCIATES ACT/007/035 QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE							Quarter <u>Second (Inspected 6/26)</u> Year <u>1996</u> Weather Condition <u>Fair</u>	
IMPOUNDMENT	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	WATER DEPTH (FEET)	WATER ELEVATION (FEET)	STORAGE CAPACITY (ACRE-FEET)	*OTHER	COMMENTS
Clear Water Pond (004)	No	No	No	Dry	0	4.9	---	Erosion at surface inlet
Railcut Sediment Pond (007)	No	No	No	Dry	0	4.8	---	---
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	Dry	0	0.9	---	---
Pasture Sediment Pond (009)	No	No	No	Dry	0	1.0	---	---
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	Dry	0	1.6	---	---
Borrow Area Pond (016)	No	No	No	Dry	0	8.3	---	---
Slurry Pond #1	No	No	No	NA	0	16.4	Does not receive surface drainage	Inactive
Slurry Pond #2	No	No	No	NA	0	15.3	Received minimal surface drainage from slurry ditch	Inactive
East Slurry Cell	No	No	No	Dry	0	NA	Received minimal surface drainage from slurry ditch	Inactive
West Slurry Cell	No	No	No	Dry	0	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	Dry	0	1.5	---	---
REFUSE PILE	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	*OTHER			COMMENTS	
Coarse Refuse Pile	No	No	No	---			Waste Coal Removal	
Excess Spoil Area	No	No	No	---			Received approximately 1,650 yards of spoils material. See attached table, pictures & map.	

\*Other = Any existing or required monitoring procedures, instrumentation, or reports of the structure affecting stability.

Date 6/26/96

State of Utah No. 18772

Professional Engineer





**Sunnyside Cogeneration Associates Excess Spoil Disposal Area, June 1996**



**Sunnyside Cogeneration Associates Excess Spoil Disposal Area, June 1996**

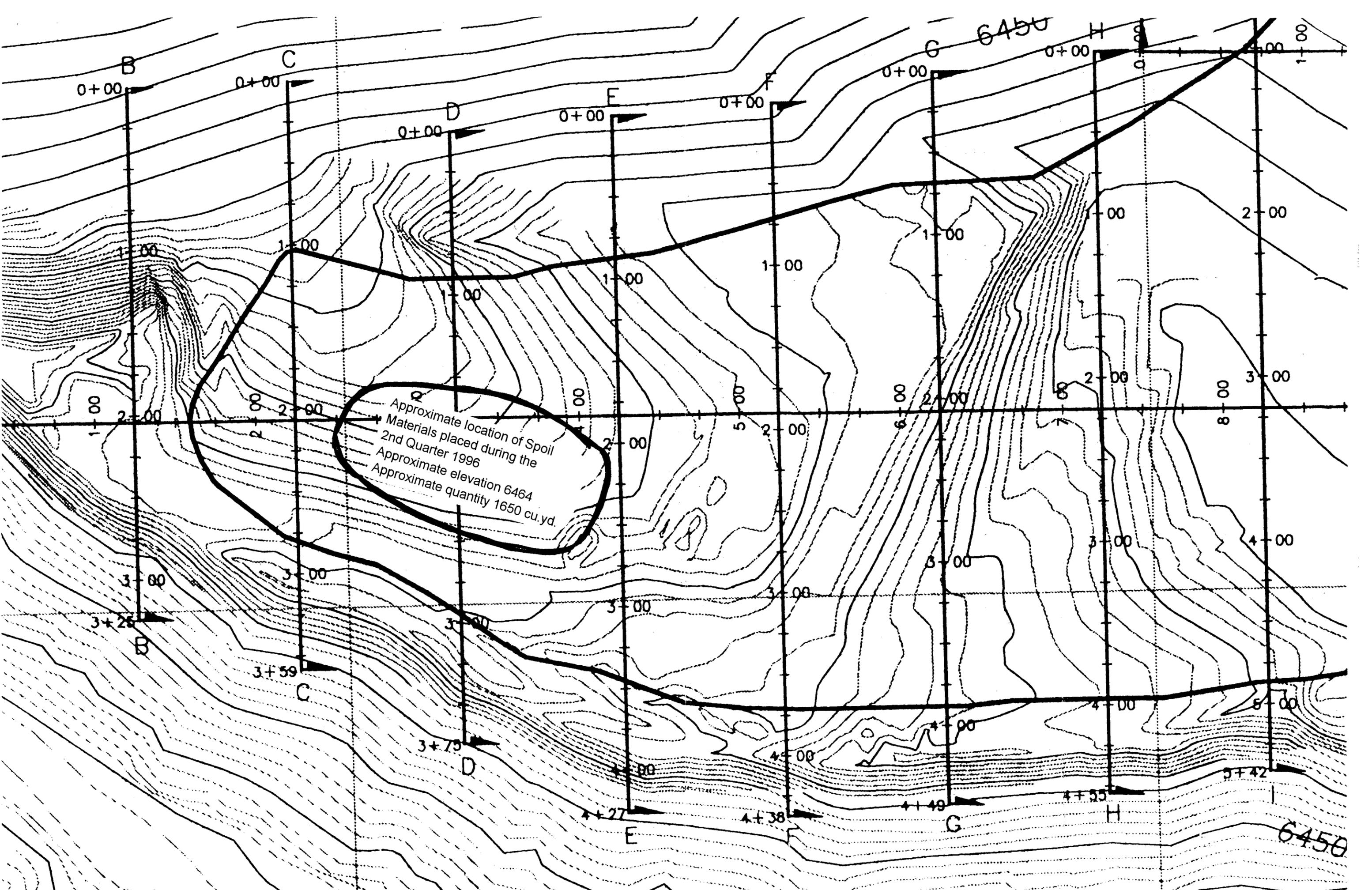
**Reject Material Placed in the Excess Spoil Area - 2nd Quarter 1996  
Sample Analysis**

<b>Sample</b>	<b>% Moisture</b>	<b>% Ash</b>	<b>Btu/Lb</b>
#1 As received	0.82	75.39	2372
#1 Dry Basis		76.00	2392
#2 As received	0.88	75.07	2418
#2 Dry Basis		75.74	2439
#3 As received	0.92	75.28	2437
#3 Dry Basis		75.98	2460
#4 As received	0.98	76.44	2391
#4 Dry Basis		77.20	2415
#5 As received	0.81	76.17	2423
#5 Dry Basis		76.79	2443
#6 As received	0.80	74.83	2400
#6 Dry Basis		75.43	2419

Approximately 1650 cubic yards, consisting of boulders and high ash/low fuel reject  
Placed in one 4-foot lift covering approximately 1/4 acre (approx. elevation 6464+/-)  
Compacted by wheel rolling

Above samples taken April 24, 1996

A sample will be collected and analyzed for the parameters listed in the  
permit Appendix 9-5, when the 4-foot lift approaches one acre





General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343

Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

**Sunnyside Cogeneration Assoc.**  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #1

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16732

## CERTIFICATE OF ANALYSIS

### SHORT PROXIMATE

	As Received Basis	Dry Basis
% Moisture	0.82	----
% Ash	75.39	76.00
Btu/Lb.	2372	2392

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager



General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343  
Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

Sunnyside Cogeneration Assoc.  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #2

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16736

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## CERTIFICATE OF ANALYSIS

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### SHORT PROXIMATE

	As Received Basis	Dry Basis
% Moisture	0.88	-----
% Ash	75.07	75.74
Btu/Lb.	2418	2439

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager



General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343  
Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

Sunnyside Cogeneration Assoc.  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #3

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16734

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## CERTIFICATE OF ANALYSIS

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### SHORT PROXIMATE

	As Received Basis	Dry Basis
% Moisture	0.92	-----
% Ash	75.28	75.98
Btu/Lb.	2437	2460

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager



General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343  
Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

Sunnyside Cogeneration Assoc.  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #4

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16738

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## CERTIFICATE OF ANALYSIS

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### SHORT PROXIMATE

	As Received Basis	Dry Basis
% Moisture	0.98	----
% Ash	76.44	77.20
Btu/l.b.	2391	2415

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager



General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343  
Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

Sunnyside Cogeneration Assoc.  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #5

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16730

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## CERTIFICATE OF ANALYSIS

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### SHORT PROXIMATE

As Received Basis      Dry Basis

% Moisture	0.81	----
% Ash	76.17	76.79
Btu/Lb.	2423	2443

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager



General Offices : P.O. Box 995 Price, Utah 84501 801-637-4343

Laboratory : 2025 East 5000 South Price, Utah 84501

Submitted to :

April 24, 1996

Sunnyside Cogeneration Assoc.  
P.O. Box 110  
East Carbon, Utah 84520

Date Sampled : 4/24/96

Sample Identification :

Date Received : 4/24/96

Spoils Reject #6

Sampled by : SCA

Identification by : SCA

Analysis Report # : 16729

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## CERTIFICATE OF ANALYSIS

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### SHORT PROXIMATE

	As Received Basis	Dry Basis
% Moisture	0.80	-----
% Ash	74.83	75.43
Btu/lb.	2400	2419

Respectfully submitted,  
HORIZON LABORATORIES

Laboratory Manager