SUNNYSIDE COGEN ACT/007/035
FOLDER 6 ANNUAL CERTS 1995
SUNNYSIDE COGEN CARBON COUNTY

07/035 #6
cc B. Malencik

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
(801) 888-2538 fax

December 31, 1995

RECEIVED
JAN 11 1996
DIV OF OIL, GAS & MINING

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

RE: Fourth Quarter and Annual 1995 Inspection Reports

Dear Daron:

Please find enclosed a copy of the Fourth Quarter and Annual 1995 Inspection Reports for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area.

Should you have any questions, please contact me at (801) 261-0090.

Sincerely,

Alane E. Boyd

Alane E. Boyd, P.E.
Eckhoff, Watson and Preator Engineering
Associate

AEB:sb

Enclosure

cc: Danny Mattingly/Power Plant Manager
Brian Burnett/Callister, Nebeker and McCullough
John Kozar/MSHA - District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Doug Burnham/B&W
Jim O'Donnell/NRG Energy, Inc.
Bob Evans/NRG Energy, Inc.

C:\WPWIN\SHERRY\COMAS\HADDOCK.LTR

SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter Fourth (Inspected Dec 22)
Year 1995
Weather Condition Partly Cloudy

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	< 1'	---	4.9	---	Inactive
Railcut Sediment Pond (007)	No	No	No	Dry	---	4.8	Inlet has been cleaned	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	< 1'	---	0.9	---	No Discharge
Pasture Sediment Pond (009)	No	No	No	< 1'	---	1.0	---	No Discharge
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	1'±	6177.0	1.6	---	No Discharge
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	No Change
Slurry Pond #1	No	No	No	NA	Dry	16.4	---	Inactive
Slurry Pond #2	No	No	No	< 1'	---	15.3	Received Surface Drainage Only	Inactive
East Slurry Cell	No	No	No	1'±	---	NA	Received Surface Drainage Only	Inactive
West Slurry Cell	No	No	No	Dry	---	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	1'±	---	1.5	---	No Discharge

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	---	Has not received any Excess Spoil material.

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

Date 12/22/95

State of Utah No. 170148

Professional Engineer Duane E Boyd

C:\WPWIN\SHERRY\COMAS\IMPOUND4.RPT

SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
ANNUAL INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter Annual (inspected Dec 22)
Year 1995
Weather Condition Partly Cloudy

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	< 1'	---	4.9	---	Inactive
Railcut Sediment Pond (007)	No	No	No	Dry	---	4.8	Inlet has been cleaned	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	< 1'	---	0.9	---	No Discharge
Pasture Sediment Pond (009)	No	No	No	< 1'	---	1.0	---	No Discharge
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	1'±	6177.0	1.6	---	No Discharge
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	No Change
Slurry Pond #1	No	No	No	NA	Dry	16.4	---	Inactive
Slurry Pond #2	No	No	No	< 1'	---	15.3	Received Surface Drainage Only	Inactive
East Slurry Cell	No	No	No	1'±	---	NA	Received Surface Drainage Only	Inactive
West Slurry Cell	No	No	No	Dry	---	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	1'±	---	1.5	---	No Discharge

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 Excess Spoil material during 2nd quarter.

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

Date 12/22/95

State of Utah No. 170148

Professional Engineer Alane E. Boyd

REGISTERED PROFESSIONAL ENGINEER No. 170148 ALANE E. BOYD STATE OF UTAH

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007/035 #6

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
(801) 888-2538 fax

October 4, 1995

RECEIVED
OCT 06 1995
DIV. OF OIL, GAS & MINING

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

RE: Third Quarter 1995 Inspection Report

Dear Daron:

Please find enclosed a copy of the Third Quarter 1995 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area.

Should you have any questions, please contact me at (801) 261-0090.

Sincerely,

Alane E. Boyd

Alane E. Boyd, P.E.
Eckhoff, Watson and Preator Engineering
Associate

AEB:sb

Enclosure

cc: Danny Mattingly/Power Plant Manager
Brian Burnett/Callister, Nebeker and McCullough
James K. Oakes/MSHA - Acting District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Doug Burnham/B&W
Jim O'Donnell/NRG Energy, Inc.
Bob Evans/NRG Energy, Inc.

SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter Third (Inspected Sept 28)
Year 1995
Weather Condition Partly Cloudy

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	< 1'	---	4.9	---	In Active
Railcut Sediment Pond (007)	No	No	No	Dry	---	4.8	---	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	< 1'	---	0.9	---	None
Pasture Sediment Pond (009)	No	No	No	1'±	6485.0	1.0	---	No Discharge
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	1'±	6177.0	1.6	---	No Discharge
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	Dry
Slurry Pond #1	No	No	No	NA	Dry	16.4	---	In Active
Slurry Pond #2	No	No	No	1'±	NA	15.3	Received Surface Drainage Only	In Active
East Slurry Cell	No	No	No	1'±	NA	NA	Received Surface Drainage Only	In Active
West Slurry Cell	No	No	No	None	---	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	1'±	6474.0	1.5	---	No Discharge

REFUSE PILE	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	*OTHER	COMMENTS
Coarse Refuse Pile	No	No	No	Smoker was extinguished.	Waste Coal Removal
Excess Spoil Area	No	No	No	---	Has not received any additional material since last inspection.

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

Date 9/28/95

State of Utah No. 170148

Professional Engineer Alane E. Boyd

PROFESSIONAL ENGINEER
No. 170148
ALANE E. BOYD
STATE OF UTAH

C:\WPWIN\SHERRY\COMAS\IMPOUND3.RPT

FILE FOLDER #6
ACT/007/035

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
(801) 888-2538 fax

July 26, 1995

RECEIVED
JUL 31 1995
DIV. OF OIL, GAS & MINING

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

RE: Second Quarter 1995 Inspection Report

Dear Daron:

Please find enclosed a copy of the Second Quarter 1995 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area. I have also enclosed the soil sample results for the Excess Spoil Pile.

Should you have any questions, please contact me at (801) 261-0090.

Sincerely,

Alane E. Boyd

Alane E. Boyd, P.E.
Eckhoff, Watson and Preator Engineering
Associate

AEB:sb

Enclosure

cc: Brian Burnett/Callister, Nebeker and McCullough
James K. Oakes/MSHA - Acting District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Tom Eckstein/B&W
Doug Burnham/B&W
Jim O'Donnell/NRG Energy, Inc.
Bob Evans/NRG Energy, Inc.

FILE FOLDER #6
ACT/007/035

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
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July 26, 1995

RECEIVED
JUL 31 1995
DIV. OF OIL, GAS & MINING

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

RE: Second Quarter 1995 Inspection Report

Dear Daron:

Please find enclosed a copy of the Second Quarter 1995 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area. I have also enclosed the soil sample results for the Excess Spoil Pile.

Should you have any questions, please contact me at (801) 261-0090.

Sincerely,

Alane E. Boyd

Alane E. Boyd, P.E.
Eckhoff, Watson and Preator Engineering
Associate

AEB:sb

Enclosure

cc: Brian Burnett/Callister, Nebeker and McCullough
James K. Oakes/MSHA - Acting District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Tom Eckstein/B&W
Doug Burnham/B&W
Jim O'Donnell/NRG Energy, Inc.
Bob Evans/NRG Energy, Inc.

SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter Second (Inspected June 29)
Year 1995
Weather Condition Cloudy

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	Less 1'	---	4.9	---	In Active
Railcut Sediment Pond (007)	No	No	No	Dry	---	4.8	---	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	Less 1'	---	0.9	---	None
Pasture Sediment Pond (009)	No	No	No	1'	6485.0	1.0	---	No Discharge
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	1'	6177.0	1.6	---	No Discharge
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	None
Slurry Pond #1	No	No	No	Dry	---	16.4	---	In Active
Slurry Pond #2	No	No	No	1'	NA	15.3	---	In Active
East Slurry Cell	No	No	No	---	NA	NA	---	In Active
West Slurry Cell	No	No	No	---	NA	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	1'	6474.0	1.5	---	No Discharge

REFUSE PILE	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	*OTHER	COMMENTS
Coarse Refuse Pile	No	No	No	No smoke visible.	Refuse Removal - In Active.
Excess Spoil Area	No	No	No	---	Samples taken on material placed.

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

Date 6/29/95

State of Utah No. 170148

Professional Engineer Alane E. Boyd

LICENSED PROFESSIONAL ENGINEER No. 170148 ALANE E. BOYD STATE OF UTAH

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EXCESS SPOIL AREA SAMPLES # 1 - #6 MARCH/APRIL 1995

Table 2. Overburden Evaluation for Vegetative Root Zone*

Parameters	Good	Fair	Poor	Unacceptable
pH	6.1-8.2 123456	5.1 to 6.1 8.2 to 8.4	4.5 to 5.0 8.5 to 9.0	less than 4.5 greater than 9.0
Ec mmhos/cm 25°C	0 to 2	2 to 8 123456	8 to 15	greater than 15
Saturation %	25%-80% 123456		less than 25% greater than 80%	
Texture	sl, l, sil, scl, vfsl, fsl 123456	c, sicl, sc ls, lfs	sic, s, sc, c, cos, fs, vfs	g, vcos
SAR	0-4 123456	5-10	10-12 Fine Texture 10-15 Coarse Texture	12 Fine Texture 15 Coarse Texture
Selenium	less than 0.1 mg/Kg 123456			greater than 0.1 mg/Kg
Boron	less than 5.0 mg/Kg 123456			greater than 5.0 mg/Kg
Acid/Base Potential	greater than -5 tons $CaCO_3$ 1,000 tons material 123456			Less than -5 tons $CaCO_3$ 1,000 tons material
% Coal fines	Undetermined at this time			
Available water capacity (in/in)	greater than 0.10	0.05-0.10	less than 0.05	
Rock Fragments (% volumes)				
3 inches	0-15	15-25	25-30	greater than 30
3-10 inches	0-15	15-25	25-30	greater than 30
10 inches	0-3	3-7	7-10	greater than 10

* Many native species have their roots in soils that are determined unsuitable by these values. Occasionally soil materials rated good by these standards have poor vegetation success. Therefore plant growth trails may be required where reestablishment of native species is desirable.

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-01*
Client Sample ID: *1-032395-6440*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10973*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/23/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.65		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	19.80		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	1.33		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	25.7		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	24.20		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.005	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.89			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	8.87		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	126		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	126		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	30700		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	43.1		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.860		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	12.6		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.8		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	31.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	91.2		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		18		%	1	5	6/19/95	jb
Sand		70		%	1	5	6/19/95	jb
Silt		13		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3.90)

U = Analyte was analyzed for but not detected
B = Analyte concentration detected at a value between MDL and PQL
PQL = Practical Quantitation Limit

Ralph V. Poulsen
Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-01*
Client Sample ID: *1-032395-6440*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10973*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/23/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated		U	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.04	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3.90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-02*
Client Sample ID: *2-033195-6444*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10974*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/31/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.48		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	21.70		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	3.26		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	12.6		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	32.60		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.025		mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.96			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	10.20		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	102		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	76		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	44300		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	48.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.750		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	10.2		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.6		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.10		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	89.1		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.82		%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		16		%	1	5	6/19/95	jb
Sand		75		%	1	5	6/19/95	jb
Silt		9		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph J. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-02*
Client Sample ID: *2-033195-6444*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10974*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/31/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated		U	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.10		%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (Based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

RECEIVED
JUL 31 1995
DIV. OF OIL, GAS & MINING

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-03*
Client Sample ID: *3-040795-6448*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10975*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/7/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.59		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	24.10		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.64		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	4.8		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	19.60		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.014	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	0.46			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	2.15		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	180		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	179		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	62200		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	37.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.190		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	18.0		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.7		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	87.8		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.02	B	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		15		%	1	5	6/19/95	jb
Sand		74		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected
B = Analyte concentration detected at a value between MDL and PQL
PQL = Practical Quantitation Limit

Ralph J. Poulsen
Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-03*
Client Sample ID: *3-040795-6448*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10975*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/7/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	3.6	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.18		%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-04*
Client Sample ID: *4-041295-6452*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10976*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/12/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.39		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	22.70		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.51		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No 60 (20B) (calc)	17.9		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	30.40		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.019	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.59			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	8.17		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	101		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	74		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	40500		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	51.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.330		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3	10.1		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.6		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	30.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	91.4		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.85		%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		15		%	1	5	6/19/95	jb
Sand		74		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-04*
Client Sample ID: *4-041295-6452*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10976*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/12/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	17.9		mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.09	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (Based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-05*
Client Sample ID: *5-041895-6456*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10977*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/18/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.65		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	20.60		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.23		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	21.2		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	34.00		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C		U	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	3.02			0.03	0.15	7/19/95	calc
Sodium, soluble	M6010 ICP	15.80		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc M600/2-78-054	125		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	125		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	19600		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	48.4		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.990		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	12.5		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	8.0		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.30		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	89.5		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		18		%	1	5	6/19/95	jb
Sand		69		%	1	5	6/19/95	jb
Silt		14		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Analytical Results

Lab Sample ID: *L6061-05*
Client Sample ID: *5-041895-6456*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10977*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/18/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	2.6	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.03	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-06*
Client Sample ID: *6-042895-6460*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10978*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/28/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.64		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	13.60		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	1.13		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	38.3		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	20.90		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C		U	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	2.02			0.03	0.15	7/19/95	calc
Sodium, soluble	M6010 ICP	8.39		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	144		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	144		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	10700		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	40.7		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.190		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	14.4		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	8.0		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	25.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	84.2		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		16		%	1	5	6/19/95	jb
Sand		73		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-06*
Client Sample ID: *6-042895-6460*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10978*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/28/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	2.3	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.02	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL.

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ECKHOFF WATSON AND PREATOR ENGINEERING
1121 East 3900 South Suite C-100 • Salt Lake City, Utah 84124 • ph: (801) 261-0090 • fax: (801) 266-1671

L6061

CHAIN OF CUSTODY RECORD & ANALYSIS REQUEST

PROJECT NO.: EC450493
PROJECT NAME/SITE: SUNNYSIDE COGEN - SPOILS AREA
P.O.# SOA-396-0889
SAMPLER (PRINT) / (SIGN): JimComas

ANALYSIS REQUESTED: TPH (8015), BTEX(N) (602/8020), TOG (413.1), TRPH (418.1), HALOCARBONS (601/8010), VOLATILES (624/8240), SEMI-VOLATILES (625/8270), USC-SIEVE

	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	REMARKS
01	1-032395-6440	3/23/95			✓			1	Soil	SEE
02	2-033195-6444	3/31/95			✓			1	Soil	ATTACHED
03	3-040795-6448	4/7/95			✓			1	Soil	QUOTATION
04	4-041295-6452	4/12/95			✓			1	Soil	FOR
05	5-041895-6456	4/18/95			✓			1	Soil	SPECIFIC
06	6-042895-6460	4/28/95			✓			1	Soil	ANALYSIS

Condition of Samples Upon Receipt By ACZ Laboratories, Inc:
Temperature of Contents: 19 °C
Sample Containers: Intact
Custody Seals: N/A

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Jim Comas	5/26/95	10:00 AM	BRUCE ELOFF
BRUCE ELOFF	5/30/95	9:00 AM	SCOTT CARLSON
SCOTT CARLSON	6/9/95	11:30 AM	SHIP VIA UPS
RECEIVED BY LAB:	DATE	TIME	RECEIPT CONDITION:

LABORATORY: ACZ Labs.
6/14/95 1000

COMMENTS: SHIP VIA UPS

REQUESTED TURNAROUND TIME: STANDARD

SITE MANAGER:

PROJECT MANAGER:

PLEASE SEND RESULTS TO:

Eckhoff, Watson & Preator Engineering
1121 East 3900 South Suite C-100
Salt Lake City, Utah 84124
ph: (801) 261-0090
fax: (801) 266-1671

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
(801) 888-2538 fax

July 26, 1995

RECEIVED
JUL 31 1995
DIV. OF OIL, GAS & MINING

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

RE: Second Quarter 1995 Inspection Report

Dear Daron:

Please find enclosed a copy of the Second Quarter 1995 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area. I have also enclosed the soil sample results for the Excess Spoil Pile.

Should you have any questions, please contact me at (801) 261-0090.

Sincerely,

Alane E. Boyd

Alane E. Boyd, P.E.
Eckhoff, Watson and Preator Engineering
Associate

AEB:sb

Enclosure

cc: Brian Burnett/Callister, Nebeker and McCullough
James K. Oakes/MSHA - Acting District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Tom Eckstein/B&W
Doug Burnham/B&W
Jim O'Donnell/NRG Energy, Inc.
Bob Evans/NRG Energy, Inc.

SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter Second (Inspected June 29)
Year 1995
Weather Condition Cloudy

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	Less 1'	---	4.9	---	In Active
Railcut Sediment Pond (007)	No	No	No	Dry	---	4.8	---	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	Less 1'	---	0.9	---	None
Pasture Sediment Pond (009)	No	No	No	1'	6485.0	1.0	---	No Discharge
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	1'	6177.0	1.6	---	No Discharge
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	None
Slurry Pond #1	No	No	No	Dry	---	16.4	---	In Active
Slurry Pond #2	No	No	No	1'	NA	15.3	---	In Active
East Slurry Cell	No	No	No	---	NA	NA	---	In Active
West Slurry Cell	No	No	No	---	NA	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	1'	6474.0	1.5	---	No Discharge

REFUSE PILE	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	*OTHER	COMMENTS
Coarse Refuse Pile	No	No	No	No smoke visible.	Refuse Removal - In Active.
Excess Spoil Area	No	No	No	---	Samples taken on material placed.

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

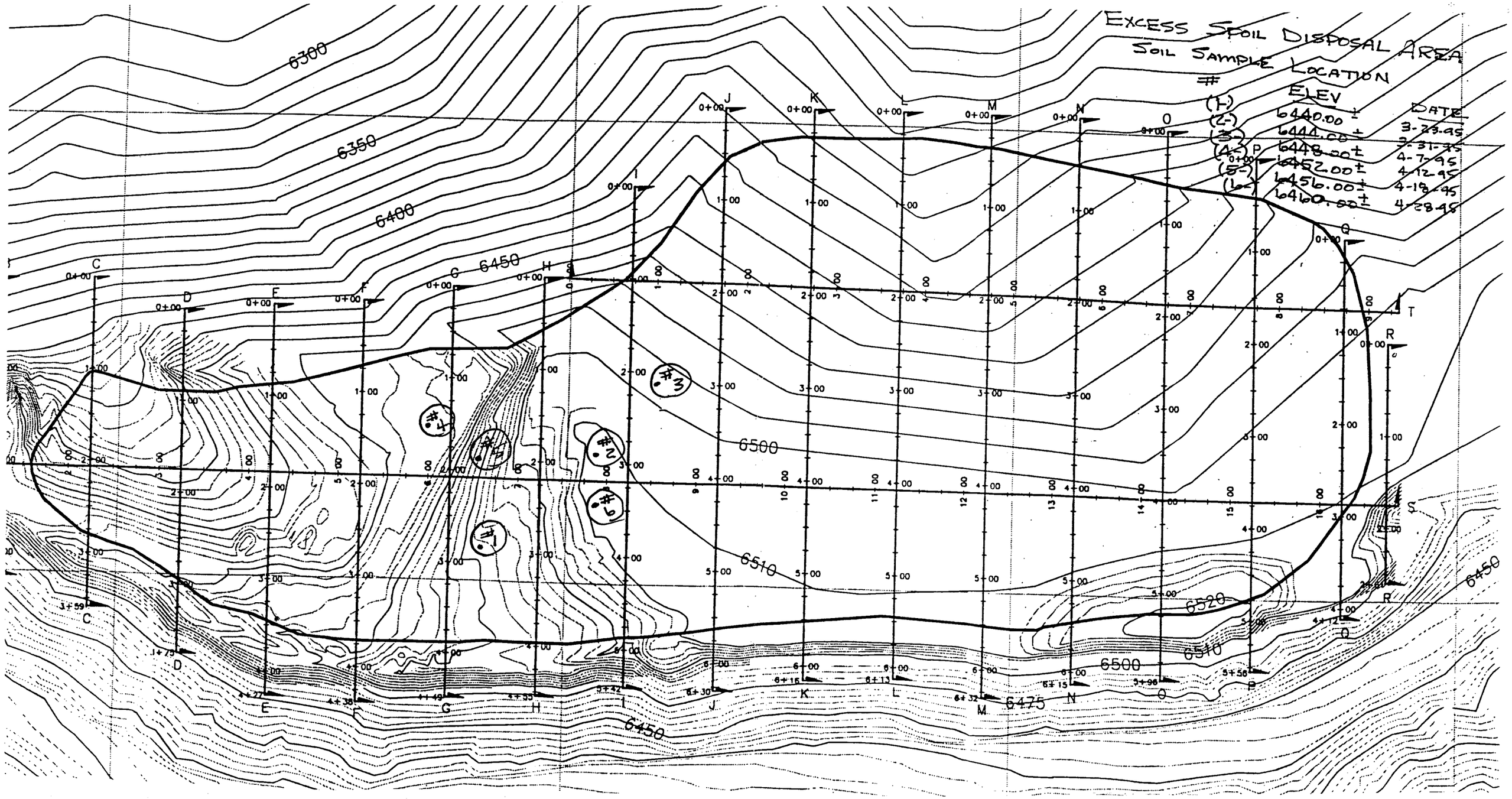
Date 6/29/95

State of Utah No. 170148

Professional Engineer Adam E. Boyd

LICENSED PROFESSIONAL ENGINEER No. 170148 ADAM E. BOYD STATE OF UTAH

C:\WPWIN\SHERRY\COMAS\IMPOUND2.RPT


EXCESS SPOIL DISPOSAL AREA
SOIL SAMPLE LOCATION
ELEV DATE
(1-) 6440.00 ± 3-23-95
(2-) 6444.00 ± 3-31-95
(3-) 6448.00 ± 4-7-95
(4-) 6452.00 ± 4-12-95
(5-) 6456.00 ± 4-18-95
(6-) 6460.00 ± 4-28-95
6300
6350
6400
6450
6500
6510
6520
6475
#1
#2
#3
#4
#5
#6

EXCESS SPOIL AREA SAMPLES # 1 - #6 MARCH/APRIL 1995

Table 2. Overburden Evaluation for Vegetative Root Zone*

Parameters	Good	Fair	Poor	Unacceptable
pH	6.1-8.2 123456	5.1 to 6.1 8.2 to 8.4	4.5 to 5.0 8.5 to 9.0	less than 4.5 greater than 9.0
Ec mmhos/cm 25°C	0 to 2	2 to 8 123456	8 to 15	greater than 15
Saturation %	25%-80% 123456		less than 25% greater than 80%	
Texture	sl, l, sil, scl, vfsl, fsl 123456	c, sicl, sc ls, lfs	sic, s, sc, c, cos, fs, vfs	g, vcos
SAR	0-4 123456	5-10	10-12 Fine Texture 10-15 Coarse Texture	12 Fine Texture 15 Coarse Texture
Selenium	less than 0.1 mg/Kg 123456			greater than 0.1 mg/Kg
Boron	less than 5.0 mg/Kg 123456			greater than 5.0 mg/Kg
Acid/Base Potential	greater than -5 tons $CaCO_3$ 1,000 tons material 123456			Less than -5 tons $CaCO_3$ 1,000 tons material
% Coal fines	Undetermined at this time			
Available water capacity (in/in)	greater than 0.10	0.05-0.10	less than 0.05	
Rock Fragments (% volumes)				
3 inches	0-15	15-25	25-30	greater than 30
3-10 inches	0-15	15-25	25-30	greater than 30
10 inches	0-3	3-7	7-10	greater than 10

* Many native species have their roots in soils that are determined unsuitable by these values. Occasionally soil materials rated good by these standards have poor vegetation success. Therefore plant growth trails may be required where reestablishment of native species is desirable.

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-01*
Client Sample ID: *1-032395-6440*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10973*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/23/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.65		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	19.80		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	1.33		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	25.7		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	24.20		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.005	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.89			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	8.87		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	126		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	126		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	30700		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	43.1		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.860		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	12.6		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.8		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	31.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	91.2		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		18		%	1	5	6/19/95	jb
Sand		70		%	1	5	6/19/95	jb
Silt		13		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3.90)

U = Analyte was analyzed for but not detected
B = Analyte concentration detected at a value between MDL and PQL
PQL = Practical Quantitation Limit

Ralph V. Poulsen
Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-01*
Client Sample ID: *1-032395-6440*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10973*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/23/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated		U	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.04	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3.90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RHP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-02*
Client Sample ID: *2-033195-6444*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10974*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/31/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.48		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	21.70		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	3.26		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	12.6		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	32.60		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.025		mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.96			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	10.20		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	102		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	76		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	44300		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	48.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.750		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	10.2		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.6		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.10		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	89.1		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.82		%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		16		%	1	5	6/19/95	jb
Sand		75		%	1	5	6/19/95	jb
Silt		9		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-02*
Client Sample ID: *2-033195-6444*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10974*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *3/31/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated		U	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.10		%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)
U = Analyte was analyzed for but not detected
B = Analyte concentration detected at a value between MDL and PQL
PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-03*
Client Sample ID: *3-040795-6448*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10975*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/7/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.59		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	24.10		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.64		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	4.8		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	19.60		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.014	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	0.46			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	2.15		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	180		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	179		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	62200		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	37.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.190		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	18.0		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.7		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	87.8		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.02	B	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		15		%	1	5	6/19/95	jb
Sand		74		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph J. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-03*
Client Sample ID: *3-040795-6448*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10975*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/7/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	3.6	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.18		%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-04*
Client Sample ID: *4-041295-6452*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10976*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/12/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.39		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	22.70		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.51		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No 60 (20B) (calc)	12.9		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	30.40		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C	0.019	B	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	1.59			0.03	0.15	7/21/95	calc
Sodium, soluble	M6010 ICP	8.17		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	101		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	74		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	40500		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	51.2		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.330		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3	10 1		%	0 1	0 5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	7.6		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	30.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	91.4		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace	0.85		%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		15		%	1	5	6/19/95	jb
Sand		74		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-04*
Client Sample ID: *4-041295-6452*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10976*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Danny Mattingly
cc: Scott Carlson

Date Sampled: *4/12/95 00:00*
Date Received: *6/14/95*
Date Reported: *7/21/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	17.9		mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.09	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-05*
Client Sample ID: *5-041895-6456*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10977*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/18/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.65		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	20.60		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	2.23		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	21.2		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	34.00		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C		U	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	3.02			0.03	0.15	7/19/95	calc
Sodium, soluble	M6010 ICP	15.80		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc M600/2-78-054	125		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	125		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	19600		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	48.4		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	4.990		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	12.5		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	8.0		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	33.30		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, 10-98	89.5		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		18		%	1	5	6/19/95	jb
Sand		69		%	1	5	6/19/95	jb
Silt		14		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

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B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Analytical Results

Lab Sample ID: L6061-05
Client Sample ID: 5-041895-6456
Client Project ID: SOA-396-0889
ACZ Report ID: RG10977

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: 4/18/95
Date Received: 6/14/95
Date Reported: 7/19/95

Sample Matrix: Soil

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	2.6	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.03	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Lab Sample ID: *L6061-06*
Client Sample ID: *6-042895-6460*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10978*

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Date Sampled: *4/28/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Boron, soluble	M6010 ICP	0.64		mg/Kg	0.05	0.3	7/13/95	rd
Calcium, soluble	M6010 ICP	13.60		meq/L	0.01	0.05	6/28/95	fp
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	1.13		meq/100g	0.03	0.2	7/18/95	rd
Exchangeable Sodium Percent (ESP)	USDA No. 60 (20B) (calc)	38.3		%	0.1	0.5	7/18/95	rd
Magnesium, soluble	M6010 ICP	20.90		meq/L	0.02	0.08	6/28/95	fp
Selenium, soluble	SM3500-Se.C		U	mg/kg	0.005	0.03	6/27/95	jaw
Sodium Adsorption Ratio	Calculation	2.02			0.03	0.15	7/19/95	calc
Sodium, soluble	M6010 ICP	8.39		meq/L	0.01	0.04	6/28/95	fp

Soil Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acid Neutralization Potential	Calc. M600/2-78-054	144		tons/KT	1	5	6/21/95	as
Acid-Base Potential (calc)	M600/2-78-054 1.	144		tons/KT	1	5	6/21/95	as
Carbon, total organic (TOC)	M9060A - Combustion	10700		mg/kg	20	100	6/19/95	as
Coarse Fragment >2mm	ASA No. 9, 15-4.2.2	40.7		%			6/17/95	as
Conductivity @25C	M120.1 - Meter, w/ Saturated Paste Prep	3.190		mmhos/cm	0.001	0.01	6/20/95	as
Neutralization Potential as CaCO3	M600 2-78-054 3.	14.4		%	0.1	0.5	6/20/95	as
pH, Saturated Paste	USDA No. 60 (21A)	8.0		units	0.1	0.1	6/20/95	as
Saturation Percent	USDA No. 60 (2)	25.90		%	0.01	0.1	6/20/95	as
Solids, Percent	CLPSOW390, PART F, D-98	84.2		%	0.1	0.5	6/15/95	as
Sulfur, total	ASTM D-4239-85C, LECO Furnace		U	%	0.01	0.1	6/20/95	jb
Texture by Hydrometer	ASTM D 422 Hydrometer							
Clay		16		%	1	5	6/19/95	jb
Sand		73		%	1	5	6/19/95	jb
Silt		11		%	1	5	6/19/95	jb
Texture Classification		SL					6/19/95	as

Soil Preparation

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Dry at Room Temperature	USDA No. 1, 1972						6/15/95	jb
Hot Water Extraction	M80-3, ASA No. 9						6/19/95	as
Saturated Paste Extraction	M2, USDA Handbook 66						6/19/95	as
Sieve-2000 um (2.0mm)	ASA No.9 15-4.2.2						6/17/95	as
Water Extraction	ASA No. 9 10-2.3.2						6/19/95	as

Inorganic Qualifiers (based on EPA CLP 3/90)

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B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

Ralph V. Poulsen

Vice President of Operations: Ralph Poulsen

ACZ

Analytical Results

ACZ Laboratories, Inc.
30400 Downhill Drive
Steamboat Springs, CO 80487
(800) 334-5493

Sunnyside Operations Associates, L.P.
One Power Plant Road
Sunnyside, UT 84539
Scott Carlson

Lab Sample ID: *L6061-06*
Client Sample ID: *6-042895-6460*
Client Project ID: *SOA-396-0889*
ACZ Report ID: *RG10978*

Date Sampled: *4/28/95*
Date Received: *6/14/95*
Date Reported: *7/19/95*

Sample Matrix: *Soil*

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Nitrate as N, soluble	M353.2 - Automated	2.3	B	mg/Kg	0.5	5	6/21/95	ss
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	0.02	B	%	0.01	0.1	6/23/95	kh

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL.

PQL = Practical Quantitation Limit

RVP

Vice President of Operations: Ralph Poulsen

ECKHOFF WATSON AND PREATOR ENGINEERING
1121 East 3900 South Suite C-100 • Salt Lake City, Utah 84124 • ph: (801) 261-0090 • fax: (801) 266-1671

L6061

CHAIN OF CUSTODY RECORD & ANALYSIS REQUEST

PROJECT NO.: EC450493
PROJECT NAME/SITE: SUNNYSIDE COGEN - SPOILS AREA
SAMPLER (PRINT): JIM COMAS / (SIGN):
P.O.# SOA-396-0889

ANALYSIS REQUESTED: TPH (8015); BTEX(N) (602/8020); TOC (413.1); TRPH (418.1); HALOCARBONS (601/8010); VOLATILES (624/8240); SEMI-VOLATILES (625/8270); USC-SIEVE

	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED	NO. CONTAINERS	SAMPLE TYPE	REMARKS
01	1-032395-6440	3/23/95			✓			1	Soil	SEE
02	2-033195-6444	3/31/95			✓			1	Soil	ATTACHED
03	3-040795-6448	4/7/95			✓			1	Soil	QUOTATION
04	4-041295-6452	4/12/95			✓			1	Soil	FOR
05	5-041895-6456	4/18/95			✓			1	Soil	SPECIFIC
06	6-042895-6460	4/28/95			✓			1	Soil	ANALYSIS

Condition of Samples Upon Receipt By ACZ Laboratories, Inc:
Temperature of Contents: 19 °C
Sample Containers: Intact
Custody Seals: N/A

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
JIM COMAS	5/26/95	10:00 AM	BRUCE ELOFF
BRUCE ELOFF	5/30/95	9:00 AM	SCOTT CARLSON
SCOTT CARLSON	6/9/95	11:30 AM	SHIP VIA UPS
RECEIVED BY LAB:	DATE	TIME	RECEIPT CONDITION:

LABORATORY: ACZ Labs.
6/14/95 1000

COMMENTS: SHIP VIA UPS

REQUESTED TURNAROUND TIME: STANDARD

SITE MANAGER:

PROJECT MANAGER:

PLEASE SEND RESULTS TO:

Eckhoff, Watson & Preator Engineering
1121 East 3900 South Suite C-100
Salt Lake City, Utah 84124
ph: (801) 261-0090
fax: (801) 266-1671

007/035 #6

SUNNYSIDE COGENERATION FACILITY
SUNNYSIDE OPERATIONS ASSOCIATES, L.P.
POST OFFICE BOX 10
EAST CARBON, UTAH 84520
(801) 888-4476
(801) 888-2538 fax

April 19, 1995

RECEIVED
APR 25 1995
DIV OF OIL, GAS & MINING

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

RE: First Quarter 1995 Inspection Report

Dear Daron:

Please find enclosed a copy of the First Quarter 1995 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil area.

Should you have any questions, please contact me.

Sincerely,

Acting Plant Manager

AEB:sb

Enclosure

cc: Brian Burnett/Callister, Nebeker and McCullough
James K. Oakes/MSHA - Acting District Director
Joe Helfrich/Division of Oil, Gas & Mining
Bill Malencik/Division of Oil, Gas & Mining
Alane E. Boyd/EWP Engineering
Jim Comas/EWP Engineering
Tom Eckstein/B&W
Doug Burnham/B&W
Jim O'Donnell/NRGEnergy, Inc.
Bob Evans/NRG Energy, Inc.

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SUNNYSIDE COGENERATION ASSOCIATES
ACT/007/035
QUARTERLY INSPECTION OF IMPOUNDMENTS AND REFUSE PILE

Quarter First (Inspected Mar. 30)
Year 1995
Weather Condition Partly cloudy

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	0'	0'	4.9	---	In Active
Railcut Sediment Pond (007)	No	No	No	Dry	0'	4.8	---	None
Old Coarse Refuse Road Sediment Pond (008)	No	No	No	Dry	0'	0.9	---	None
Pasture Sediment Pond (009)	No	No	No	Dry	0'	1.0	---	None
New Coarse Refuse Toe Sediment Pond (012)	No	No	No	---	6176.8	1.6	No Discharge	None
Borrow Area Pond (016)	No	No	No	Dry	---	8.3	---	None
Slurry Pond #1	No	No	No	---	NA	16.4	---	In Active
Slurry Pond #2	No	No	No	---	NA	15.3	---	In Active
East Slurry Cell	No	No	No	---	NA	NA	---	In Active
West Slurry Cell	No	No	No	---	NA	NA	---	Refuse Removal
Coal Runoff Sediment Pond (014)	No	No	No	Dry	0'	1.5	---	Has Been Cleaned Out

REFUSE PILE	INSTABILITY (YES/NO)	STRUCTURAL WEAKNESS (YES/NO)	HAZARDOUS CONDITIONS (YES/NO)	*OTHER	COMMENTS
Coarse Refuse Pile	No	No	No	Full to capacity; no smoke visible.	In Active
Excess Spoil Area	No	No	No	---	Drainage Ditch In Place

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

Date 3/30/95

State of Utah No. 170148

Professional Engineer Alan E. Boyd

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