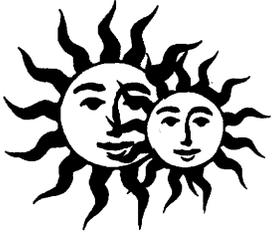


0004



## Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

January 24, 2008

Pam Grubaugh-Littig  
Division of Oil, Gas & Mining  
1594 W. North Temple, Suite 1210  
Salt Lake City, Utah 84116

RE: Annual 2007 Inspection Report  
Sunnyside Refuse and Slurry C/007/035

*Tracy*  
*4/007/0035*  
*OK*

Dear Pam:

Please find enclosed a copy of the Annual 2007 Inspection Report for the Sunnyside refuse pile, impoundments, and excess spoil areas.

Should you have any questions, please contact Rusty Netz or myself at (435)888-4476.

Thank You,

Michael J. Blakey  
Agent For  
Sunnyside Cogeneration Associates

c.c. Steve Gross  
William Rossiter  
Paul Shepard  
Ramiro Garcia  
Rusty Netz  
Plant File

RECEIVED  
JAN 30 2008  
DIV. OF OIL, GAS & MINING

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## GENERAL INFORMATION

Clear Water Sediment Pond

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

## IMPOUNDMENT IDENTIFICATION

Impoundment Name Clear Water Sediment Pond  
Impoundment Number 004  
UPDES Permit Number UT024759  
MSHA ID Number N/A

## IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

POND WAS DECOMMISSIONED DURING 2007, REMOVED FROM UPDES PERMIT AND IS NOW BEING FILLED AS PART OF THE EXCESS SPOIL AREA #2

b. Principle and emergency spillway elevations.

N/A

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had no water in it.

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## Clear Water Sediment Pond

### 3. Field Evaluation.

Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period

POND HAS BEEN DECOMMISSIONED AND IS BEING FILLED AS PART OF THE EXCESS SPOIL AREA #2

#### QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: \_\_\_\_\_

*S. Carlson*

Date: \_\_\_\_\_

1/08

#### CERTIFIED REPORT IMPOUNDMENT EVALUATION

If you answer NO to these questions, please explain under comments

1. Is impoundment designed and constructed in accordance with the approved plan? YES
2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

#### COMMENTS/ OTHER INFORMATION

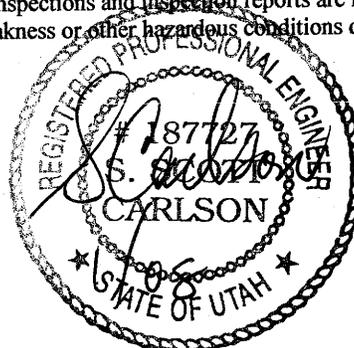
This pond has been approved to be filled as part of the Excess Spoil Disposal Area #2. SCA has re-routed all storm water drainage from this area to the newly enlarged Pasture Pond. The Clear Water Pond has been de-commissioned and is being filled in. We will not prepare individual inspection reports for the Clear Water Pond in 2008 since the area will be inspected as part of the Disposal Area.

#### CERTIFICATION STATEMENT:

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## GENERAL INFORMATION

## Railcut Sediment Pond

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

## IMPOUNDMENT IDENTIFICATION

Impoundment Name RailCut Sediment Pond  
Impoundment Number 007  
UPDES Permit Number UT024759  
MSHA ID Number N/A

## IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 4.8 Acre-feet  
Pond bottom elevation = 6206.0  
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209  
60% sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7  
Existing Sediment Elevation = 6206.5 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07  
Emergency Spillway Elevation = 6212.34

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had no water in it. No samples were taken. Pond did not require decanting  
SCA cleaned Sediment from pond during 2007  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Rail Cut Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed, other than sediment cleaning

No water was impounded

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: *S. Carlson*

Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

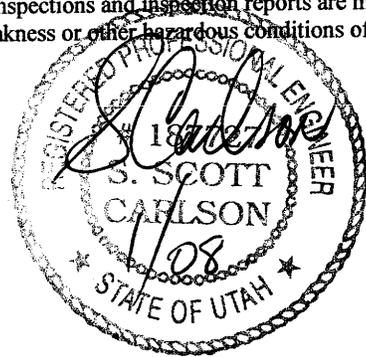
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## Old Coarse Refuse Road Sediment Pond

### GENERAL INFORMATION

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

### IMPOUNDMENT IDENTIFICATION

Impoundment Name Old Coarse Refuse Road Sediment Pond  
Impoundment Number 008  
UPDES Permit Number UT024759  
MSHA ID Number N/A

### IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

#### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 0.9 Acre-feet  
Pond bottom elevation = 6394.0  
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1  
60% sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75  
Existing Sediment Elevation = 6394.0 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75  
Emergency Spillway Elevation = 6399.4

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had no water in it. No samples were taken Pond did not require decanting.  
Sediment level was good.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Old Coarse Refuse Road Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
No water was impounded  
Sediment level was good.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: *S. Scott Carlson*

Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

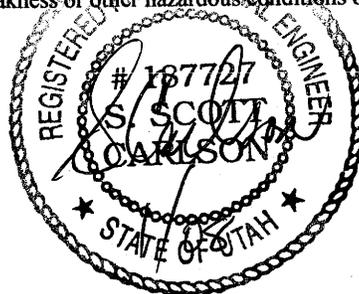
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## Pasture Sediment Pond

### GENERAL INFORMATION

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

### IMPOUNDMENT IDENTIFICATION

Impoundment Name Pasture Sediment Pond  
Impoundment Number 009  
UPDES Permit Number UT024759  
MSHA ID Number N/A

### IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

#### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 3.2 Acre-feet  
Pond bottom elevation = 6484.5  
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2  
60% sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5  
Existing Sediment Elevation = 6484.5 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6  
Emergency Spillway Elevation = 6490.6

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had some water in it. No samples were taken. Pond did not require decanting.  
SCA cleaned Sediment and enlarged this pond during 2007.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Pasture Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

Changes in the geometry of the structure include an enlargement of this pond during 2007.

A small amount of water was impounded

Sediment was cleaned.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1/08

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

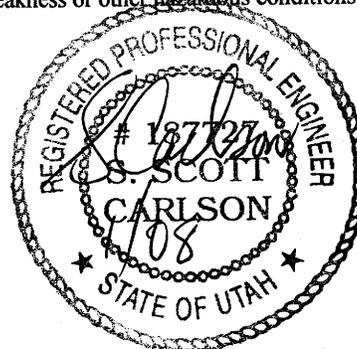
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## Coarse Refuse Toe Sediment Pond

### GENERAL INFORMATION

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

### IMPOUNDMENT IDENTIFICATION

Impoundment Name New Coarse Refuse Toe Sediment Pond  
Impoundment Number 012  
UPDES Permit Number UT024759  
MSHA ID Number N/A

### IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

#### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 1.6 Acre-feet  
Pond bottom elevation = 6176.0  
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8  
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0  
Existing Sediment Elevation = 6176 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2  
Emergency Spillway Elevation = 6183.63

#### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had no water in it. No samples were taken Pond did not require decanting  
SCA cleaned Sediment from pond during 2007  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Coarse Refuse Toe Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
No water was impounded  
Sediment was cleaned.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: S. Carlson

Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

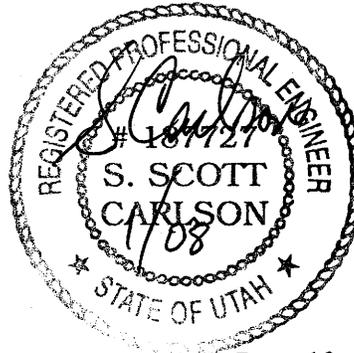
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## GENERAL INFORMATION

Coal Pile Sediment Pond

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

## IMPOUNDMENT IDENTIFICATION

Impoundment Name Coal Pile Sediment Pond  
Impoundment Number 014  
UPDES Permit Number UT024759  
MSHA ID Number N/A

## IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 1.5 Acre-feet  
Pond bottom elevation = 6473.0  
100% Sediment Storage Volume = 0.5 acre-feet at Elevation 6476.0  
60% sediment Storage Volume = 0.3 acre feet at Elevation = 6474.7  
Existing Sediment Elevation = 6473.0 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6476.0  
Secondary Dewatering Orifice = 6477.2  
Primary Spillway Elevation = 6477.9  
Emergency Spillway Elevation = 6479.0

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had some water in it. No samples were taken. Pond did not require decanting.  
Sediment level was good.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Coal Pile Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed

A small amount of water was impounded

Sediment level was good.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: S. Carlson

Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

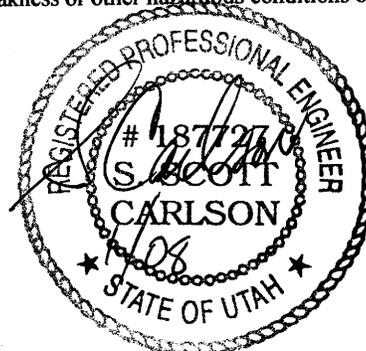
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

## Borrow Area Sediment Pond

### GENERAL INFORMATION

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

### IMPOUNDMENT IDENTIFICATION

Impoundment Name Borrow Area Sediment Pond  
Impoundment Number 016  
UPDES Permit Number UT024759  
MSHA ID Number N/A

### IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

#### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 8.3 Acre-feet  
Pond bottom elevation = 6510.0  
100% Sediment Storage Volume = 2.3 acre-feet at Elevation 6514.3  
60% sediment Storage Volume = 1.4 acre feet at Elevation = 6513.3  
Existing Sediment Elevation = 6510 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3  
Emergency Spillway Elevation = 6517.03

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had no water in it. No samples were taken  
Sediment level was good. Pond did not require decanting.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**Borrow Area Sediment Pond**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed

No water was impounded

Sediment level was good.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: S. Scott Carlson

Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

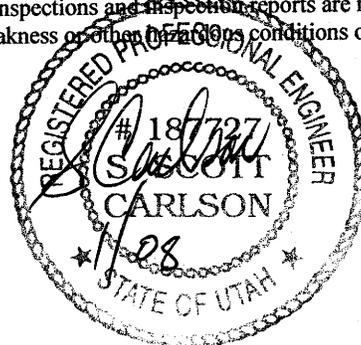
**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

# IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

East Slurry Cell

## GENERAL INFORMATION

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

## IMPOUNDMENT IDENTIFICATION

Impoundment Name East Slurry Cell  
Impoundment Number N/A  
UPDES Permit Number N/A  
MSHA ID Number 1211-UT-09-02093-02

## IMPOUNDMENT INSPECTION

Inspection Date October 26, 2007  
Inspected by Scott Carlson, Patrick D. Collins  
Reason for Inspection Annual Inspection 2007

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

POND HAS BEEN DECOMMISSIONED AS A SEDIMENT POND AND HAS BEEN INCORPORATED AS PART OF THE COARSE REFUSE PILE.

b. Principle and emergency spillway elevations.

NA

### 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

See Attached Report s

**IMPOUNDMENT INSPECTION AND CERTIFIED REPORT**

**East Slurry Cell**

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

Periodic excavation of stored coal fines is occurring.  
No water was impounded

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: S. Carlson Date: 1/08

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

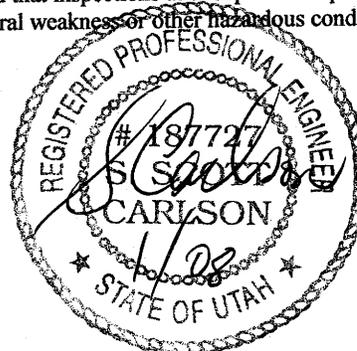
**COMMENTS/ OTHER INFORMATION**

The East Slurry Cell is not receiving slurry from any source. Stored slurry / coal fines are being excavated for use in the adjacent power plant. This pond has been decommissioned and is now incorporated as part of the coarse refuse pile. Inspections of this area will now be covered with the Coarse Refuse Pile. We will no longer issue separate inspection reports for the East Slurry Cell as an impoundment.

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**GENERAL INFORMATION**

**Coarse Refuse Pile**

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Coarse Refuse Pile  
Pile Number N/A  
MSHA ID Number 1211-UT-09-02093-01

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

Attachment to Report? (such as refuse sample analysis or photos) **YES**

**Field Evaluation**

1. Foundation preparation, including the removal of all organic material and topsoil.

N/A

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

N/A - Activities occurring at this time are associated with removal of refuse material

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**Coarse Refuse Pile**

7. **Other comments.** Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

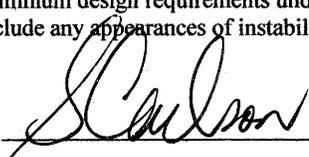
Refuse material is actively being excavated and removed from various locations across the top of the pile

The East Slurry Cell has been decommissioned and the coal refuse material stored therein has been incorporated as part of the Coarse Refuse Pile.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

11/08

**CERTIFICATION STATEMENT**

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**GENERAL INFORMATION**

**Excess Spoil Disposal Area #1**

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Excess Spoil Disposal Area #1  
Pile Number N/A  
MSHA ID Number 1211-UT-09-02093-04

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

Attachment to Report? (such as refuse sample analysis or photos) **YES**

**Field Evaluation**

1. Foundation preparation, including the removal of all organic material and topsoil.

N/A

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

Material placed during the year generally consisted of coarse refuse rejects and included approximately 10,063 tons in the first quarter and 5,542 tons in the second quarter. No materials were placed in the third or fourth quarters.

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**Excess Spoil Disposal Area #1**

7. Other comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

Construction of the fill has been proceeding in shallow lifts in general conformance with the approved plan.

Samples of the material placed in this area were taken and the laboratory results submitted with the 2<sup>nd</sup> quarter 2007 report and are also attached with this annual report.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: \_\_\_\_\_

*S. Carlson*

Date: \_\_\_\_\_

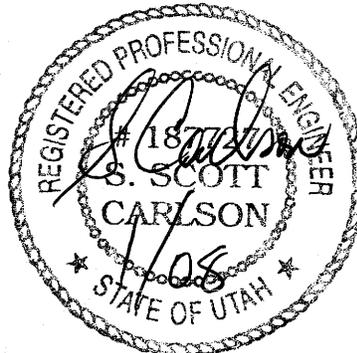
*1/08*

**CERTIFICATION STATEMENT**

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**GENERAL INFORMATION**

**Excess Spoil Disposal Area #2**

Report Date January 18, 2008  
Permit Number C/007/035  
Mine Name Sunnyside Refuse and Slurry  
Company Name Sunnyside Cogeneration Associates

**EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION**

Pile Name Excess Spoil Disposal Area #2  
Pile Number N/A  
MSHA ID Number 1211-UT-09-02093-05

Inspection Date October 26, 2007  
Inspected by Scott Carlson  
Reason for Inspection Annual Inspection 2007

Attachment to Report? (such as refuse sample analysis or photos) **Yes**

**Field Evaluation**

1. Foundation preparation, including the removal of all organic material and topsoil.

Existing disturbed site. No additional topsoil removal is required by the approved plan

2. Placement of underdrains and protective filter systems.

No under-drains or filters area required by the approved plan

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

Material placed during the year generally consisted of coarse refuse rejects and included approximately 9,844 tons in the third quarter and 10,537 tons in the fourth quarter. No materials were placed in the first or second quarters.

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT  
ON EXCESS SPOIL PILE OR REFUSE PILE**

**Excess Spoil Disposal Area #2**

7. Other comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

Both Slurry Ponds 1 & 2 have now been filled. The Clear Water Pond has been included within this Disposal Area. SCA has completed an enlargement of the Pasture Pond and has decommissioned the Clear Water Pond and incorporated the area within this Disposal Area. They can also continue filling the disposal area to the height approved.

**QUALIFICATION STATEMENT:**

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: S. Carlson Date: 1/08

**CERTIFICATION STATEMENT**

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



U.S. Department of Labor

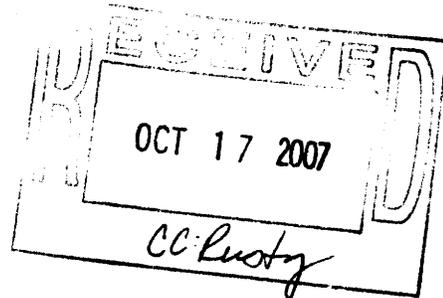
Mine Safety and Health Administration  
P.O. Box 25367  
Denver, Colorado 80225-0367



OCT 11 2007

Coal Mine Safety and Health  
District 9

Michael J. Blakey  
Plant Manager  
Sunnyside Cogeneration Associates  
One Power Plant Road  
Sunnyside, UT 84539



RE: Sunnyside Waste Coal Site  
Mine ID No. 42-02093  
East Slurry Cell  
ID #1211-UT-09-02093-02  
Final Impoundment Abandonment

Dear Mr. Blakey:

MSHA personnel have inspected the referenced impoundment and concur, as stated in your submittal, dated June 15, 2007, that the referenced site was abandoned in a manner to preclude the probability of future impoundment of water, sediment, or slurry. The above referenced impoundment is approved for final abandonment.

The referenced impoundment identification number will be removed from the mine file. MSHA inspection and reporting requirements no longer apply to the referenced structure.

If you have any questions regarding this approval, please contact Billy Owens at 303-231-5590 or Ronald Gehrke at 303-231-5587.

Sincerely,

A handwritten signature in cursive script, reading "Allyn C. Davis", is written over the typed name.

Allyn C. Davis  
District Manager



**MT NEBO SCIENTIFIC, INC.**

*research & consulting*

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**MSHA IMPOUNDMENT  
INSPECTION REPORT**

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**INSPECTION DATE:** July 6, 2007

**INSPECTOR:** Patrick D. Collins, Ph.D.

**COMPANY NAME:** SUNNYSIDE COGENERATION ASSOCIATES

**ADDRESS:** No. 1 Power Plant Road  
Sunnyside, Utah 84539

**IMPOUNDMENT NAME:** East Slurry Cell

**MSHA NUMBER:** 1211-UT-09-02093-02

**SIZE/VOLUME:** 21.36 acre-feet

**EROSION PROBLEMS:** None

**INLET & OUTLET:** Non-issue (see "NOTES" below)

**EMBANKMENT STABILITY & NOTES:**

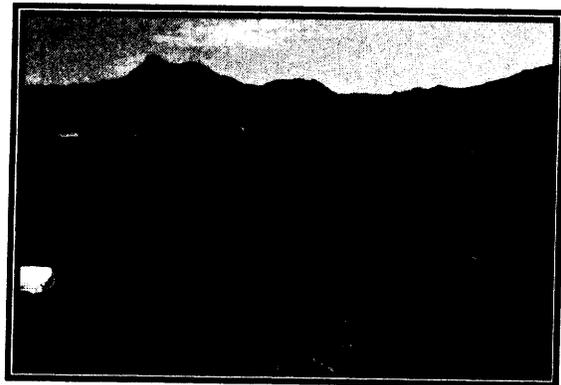
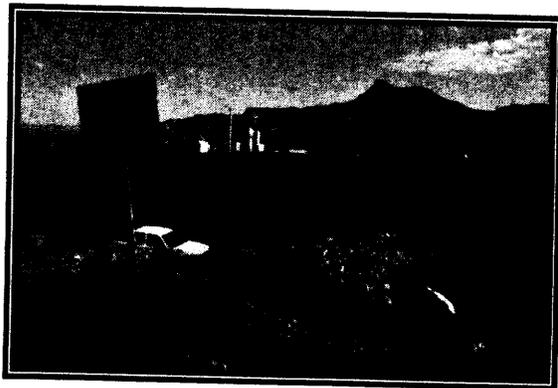
- All embankments were stable.
- North Embankment: There was never a north embankment; this side of the slurry cell was the impoundment's inlet (see "NOTES" below).
- South Embankment: Present & stable.
- East Embankment: Present & stable
- West Embankment: Removed (see "NOTES" below).
- Outer impoundment embankments were vegetated with native grasses and shrubs including: Indian ricegrass (*Stipa hymenoides*), broom snakeweed (*Gutierrezia sarothrae*) and fourwing saltbush (*Atriplex canescens*).

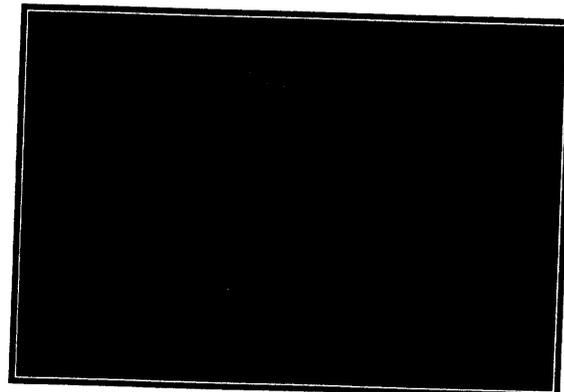
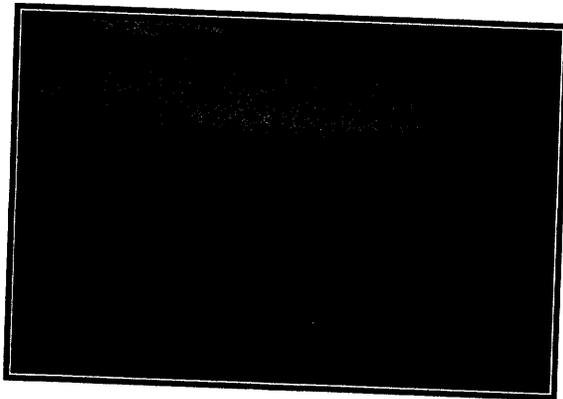
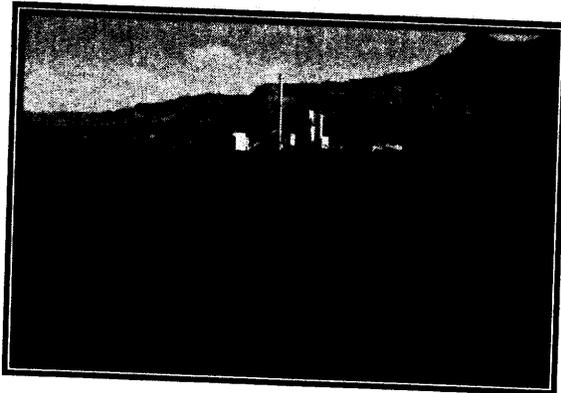
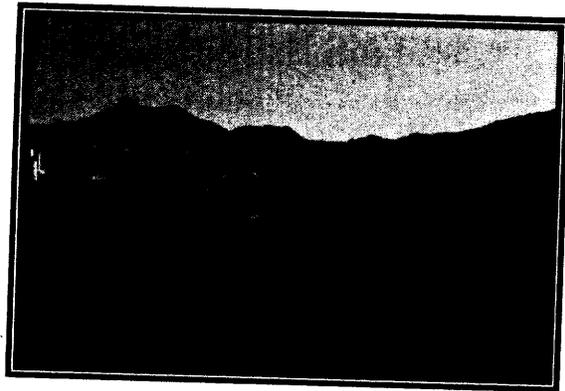
**WEATHER CONDITIONS:** 80 degrees, clear

**WATER LEVEL:** Dry

**NOTES:**

- This impoundment was created by the Sunnyside Coal Mine (*not* Sunnyside Co-generation Associates) as a settling pond for coal fines that were created at the mine site.
  - It was later permitted by Sunnyside Co-generation Associates as a coal source for their power plant.
  - Consequently, the fines from impoundment are currently being removed in a progressive manner, including the embankments.
  - This impoundment's current function is *not* to retain water.
  - Sunnyside Co-generation Associates are in the process of removing or abandoning this impoundment according to MSHA regulations.
  - Color photographs of the East Slurry Cell Impoundment and embankments are included below.
  - A Certificate of Training has also been included.
- 





**Certificate of Training**

Certificate of Training U.S. Department of Labor  
Mine Safety and Health Administration

Approved OMB Number 1219-0070, Expires November 30, 2004.  
 This certificate is required under Public Law 91-173 as amended by Public Law 95-164.  
 Failure to comply may result in penalties and other sanctions as provided by sections 108 and 110, Public Law 91-173 as amended by Public Law 95-164.

Issue Certificate Immediately Upon Completion of Training Serial Number (for operators use)  
**0348**

1. Print Full Name of Person Trained (first, middle, last)  
**PATRICK COLLINS**

2. Check Type of Approved Training Received:

Annual Refresher  Experienced Miner  Hazard Training  
 New Task (specify below)  Newly Employed, Inexperienced Miner  Other (specify)  
**Impound Refresher**

Date	Task	Initials		Date	Task	Initials	
		Trainer	Student			Trainer	Student

3. Check Type of Operation and Related Industry:

A.  Surface  Construction  Underground  Shaft & Slope  
 B.  Coal  Metal  Nonmetal

4. Date Training Requirements Completed  Check if not completed and go to item 5, below.

**10/11/2006**  
 If completed, go to item 6, below.

5. Check Subjects Completed (use only for partially completed training):

Introduction to Work Environment  Roof/Ground Control & Ventilation  Health  
 Hazard Recognition  Mine Map, Escapeways, Emergency Evacuation, Barricading  Electrical Hazards  
 Emergency Medical Procedures  Cleanup, Rock Dusting  First Aid  
 H&S Aspects of Tasks Assigned  Mandatory Health & Safety Standards  Mine Gases  
 Statutory Rights of Miners  Self-Rescue & Respiratory Devices  Prevention of Accidents  
 Transport & Communication Systems  Authority & Responsibility of Supervisors & Miners' Representatives  Other (specify)

6. False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety & Health Act (P. L. 91-173 as amended by P. L. 95-164). I certify that the above training has been completed (signature of person responsible for training)  
**Ronald J. Miller MSHA**

7. Mine Name, ID, & Location of Training (if institution, give name & address)  
**CMSH - D9 OFFICE  
 DFC, Box 25367, DENVER CO 80225**

8. Date **10/11/06** Verify that I have completed the above training (signature of person trained)  
**Patrick Collins**

MSHA Form 5000-23, Jan. 99 (revised) Copy 1 - Employer's Personnel Record

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U.S. Department of Labor PRIVACY ACT OF 1974 (P.L. 93-579)  
 Mine Safety and Health Administration

**Impoundment Inspection**

**COLLINS PATRICK D**  
 Qualified Date of Examination  
 IMPOUNDMENT INSPECT 10/2004

MSHA Form 5000-33, Aug. 03



**MSHA IMPOUNDMENT  
INSPECTION REPORT**

---

**INSPECTION DATE:** August 29, 2007

**INSPECTOR:** Patrick D. Collins, Ph.D.

**COMPANY NAME:** SUNNYSIDE COGENERATION ASSOCIATES

**ADDRESS:** No. 1 Power Plant Road  
Sunnyside, Utah 84539

**IMPOUNDMENT NAME:** East Slurry Cell

**MSHA NUMBER:** 1211-UT-09-02093-02

**SIZE/VOLUME:** 21.36 acre-feet

**EROSION PROBLEMS:** None

**INLET & OUTLET:** Non-issue (see "NOTES" below)

**EMBANKMENT STABILITY & NOTES:**

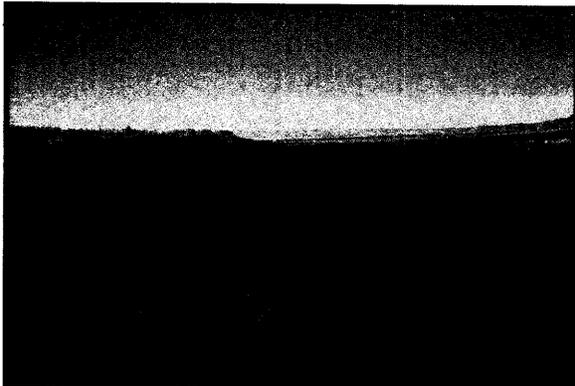
- All embankments were stable.
- North Embankment: There was never a north embankment; this side of the slurry cell was the impoundment's inlet (see "NOTES" below).
- South Embankment: Present & stable.
- East Embankment: Present & stable
- West Embankment: Removed (see "NOTES" below).
- Outer impoundment embankments were vegetated with native grasses and shrubs including: Indian ricegrass (*Stipa hymenoides*), broom snakeweed (*Gutierrezia sarothrae*) and fourwing saltbush (*Atriplex canescens*).

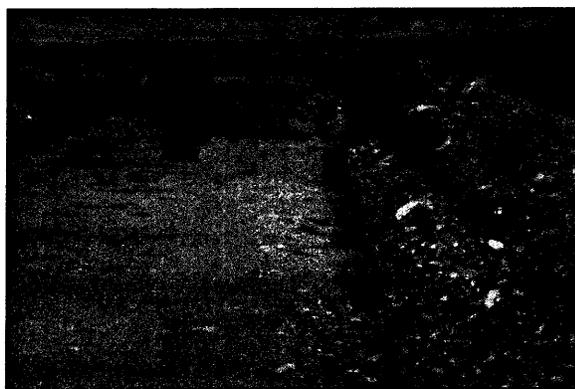
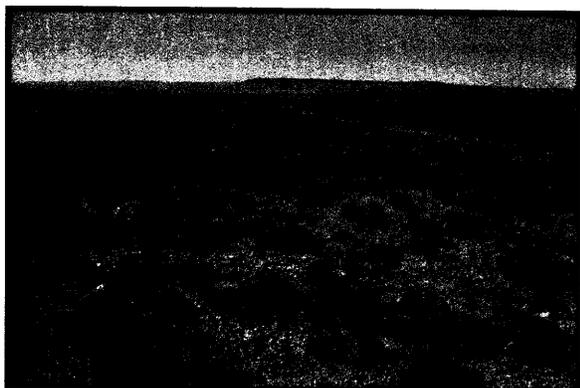
**WEATHER CONDITIONS:** 76 degrees, clear

**WATER LEVEL:** Dry

**NOTES:**

- This impoundment was created by the Sunnyside Coal Mine (*not* Sunnyside Co-generation Associates) as a settling pond for coal fines that were created at the mine site.
  - It was later permitted by Sunnyside Co-generation Associates as a coal source for their power plant.
  - Consequently, the fines from impoundment are currently being removed in a progressive manner, including the embankments.
  - This impoundment's current function is *not* to retain water.
  - Sunnyside Co-generation Associates are in the process of removing or abandoning this impoundment according to MSHA regulations.
  - Color photographs of the East Slurry Cell Impoundment and embankments are included below.
  - A Certificate of Training has also been included.
- 





### Certificate of Training

Certificate of Training		U.S. Department of Labor Mine Safety and Health Administration	
Approved OMB Number 1219-0070. Expires November 30, 2004. This certificate is required under Public Law 91-173 as amended by Public Law 95-164. Failure to comply may result in penalties and other sanctions as provided by sections 108 and 110, Public Law 91-173 as amended by Public Law 95-164.			
➔ Issue Certificate Immediately Upon Completion of Training		Serial Number (for operator's use) <b>0348</b>	
1. Print Full Name of Person Trained (first, middle, last) <b>PATRICK COLLINS</b>			
2. Check Type of Approved Training Received.			
<input type="checkbox"/> Annual Refresher		<input type="checkbox"/> Experienced Miner	
<input type="checkbox"/> New Task (specify below)		<input type="checkbox"/> Newly Employed, Inexperienced Miner	
		<input checked="" type="checkbox"/> Other (specify) <b>Impound Refresher</b>	
Date	Task	Initials <small>Instr. Student</small>	Date
Task	Initials <small>Instr. Student</small>	Task	Initials <small>Instr. Student</small>
3. Check Type of Operation and Related Industry:			
A. <input checked="" type="checkbox"/> Surface		<input type="checkbox"/> Construction	
<input type="checkbox"/> Underground		<input type="checkbox"/> Shaft & Slope	
B. <input checked="" type="checkbox"/> Coal		<input type="checkbox"/> Metal	
<input type="checkbox"/> Nonmetal			
4. Date Training Requirements Completed <b>10/11/2006</b>			
➔ If completed, go to item 6, below.		<input type="checkbox"/> Check if not completed and go to item 5, below.	
5. Check Subjects Completed (use only for partially completed training):			
<input type="checkbox"/> Introduction to Work Environment		<input type="checkbox"/> Roof/Ground Control & Ventilation	
<input type="checkbox"/> Hazard Recognition		<input type="checkbox"/> Mine Map; Escapeways; Emergency Evacuation; Barricading	
<input type="checkbox"/> Emergency Medical Procedures		<input type="checkbox"/> Cleanup; Rock Dusting	
<input type="checkbox"/> H&S Aspects of Tasks Assigned		<input type="checkbox"/> Mandatory Health & Safety Standards	
<input type="checkbox"/> Statutory Rights of Miners		<input type="checkbox"/> Authority & Responsibility of Supervisors & Miners' Representatives	
<input type="checkbox"/> Self-Rescue & Respiratory Devices		<input type="checkbox"/> Health	
<input type="checkbox"/> Transport & Communication Systems		<input type="checkbox"/> Electrical Hazards	
		<input type="checkbox"/> First Aid	
		<input type="checkbox"/> Mine Gases	
		<input type="checkbox"/> Explosives	
		<input type="checkbox"/> Prevention of Accidents	
		<input type="checkbox"/> Other (specify)	
6. False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety & Health Act (P. L. 91-173 as amended by P. L. 95-164).		I certify that the above training has been completed (signature of person responsible for training) <b>Ronald H. Miller MSHA</b>	
7. Mine Name, ID, & Location of Training (if institution, give name & address) <b>CM31H-D9 OFFICE DFC, Box 25367, DENVER CO 80225</b>			
8. Date <b>10/11/06</b>		Verify that I have completed the above training (signature of person trained) <b>Patrick Collins</b>	
MSHA Form 5000-23, Jan. 99 (revised)		Copy 1 - Employer's Personnel Record	
U.S. Department of Labor Mine Safety and Health Administration		PRIVACY ACT OF 1974 (P.L. 93-579)	
Impoundment Inspection			
COLLINS PATRICK D		Date of Examination	
Qualified		10/2004	
IMPONDMENT INSPECT			
		MSHA Form 5000-33, Aug. 83	



**MSHA IMPOUNDMENT  
INSPECTION REPORT**

---

**INSPECTION DATE:** September 24, 2007

**INSPECTOR:** Patrick D. Collins, Ph.D.

**COMPANY NAME:** SUNNYSIDE COGENERATION ASSOCIATES

**ADDRESS:** No. 1 Power Plant Road  
Sunnyside, Utah 84539

**IMPOUNDMENT NAME:** East Slurry Cell

**MSHA NUMBER:** 1211-UT-09-02093-02

**SIZE/VOLUME:** 21.36 acre-feet

**EROSION PROBLEMS:** None

**INLET & OUTLET:** Non-issue (see "NOTES" below)

**EMBANKMENT STABILITY & NOTES:**

- All embankments were stable.
- North Embankment: There was never a north embankment; this side of the slurry cell was the impoundment's inlet (see "NOTES" below).
- South Embankment: Present & stable.
- East Embankment: Present & stable
- West Embankment: Removed (see "NOTES" below).
- Outer impoundment embankments were vegetated with native grasses and shrubs including: Indian ricegrass (*Stipa hymenoides*), broom snakeweed (*Gutierrezia sarothrae*) and fourwing saltbush (*Atriplex canescens*).

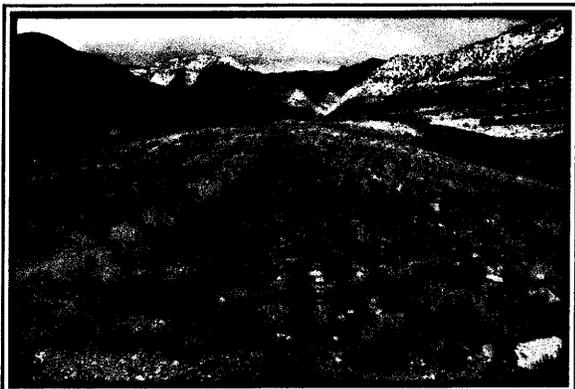
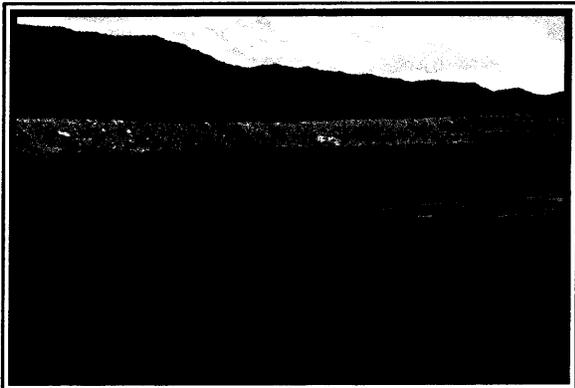
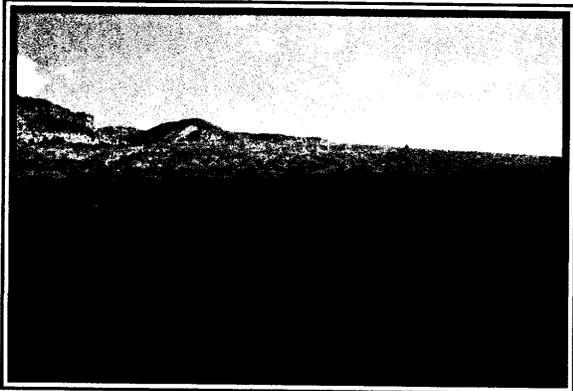
**WEATHER CONDITIONS:** 53 degrees, mostly sunny and breezy

**WATER LEVEL:** 1"-3" ponding in low areas from last evenings' precipitation (see photographs).

**NOTES:**

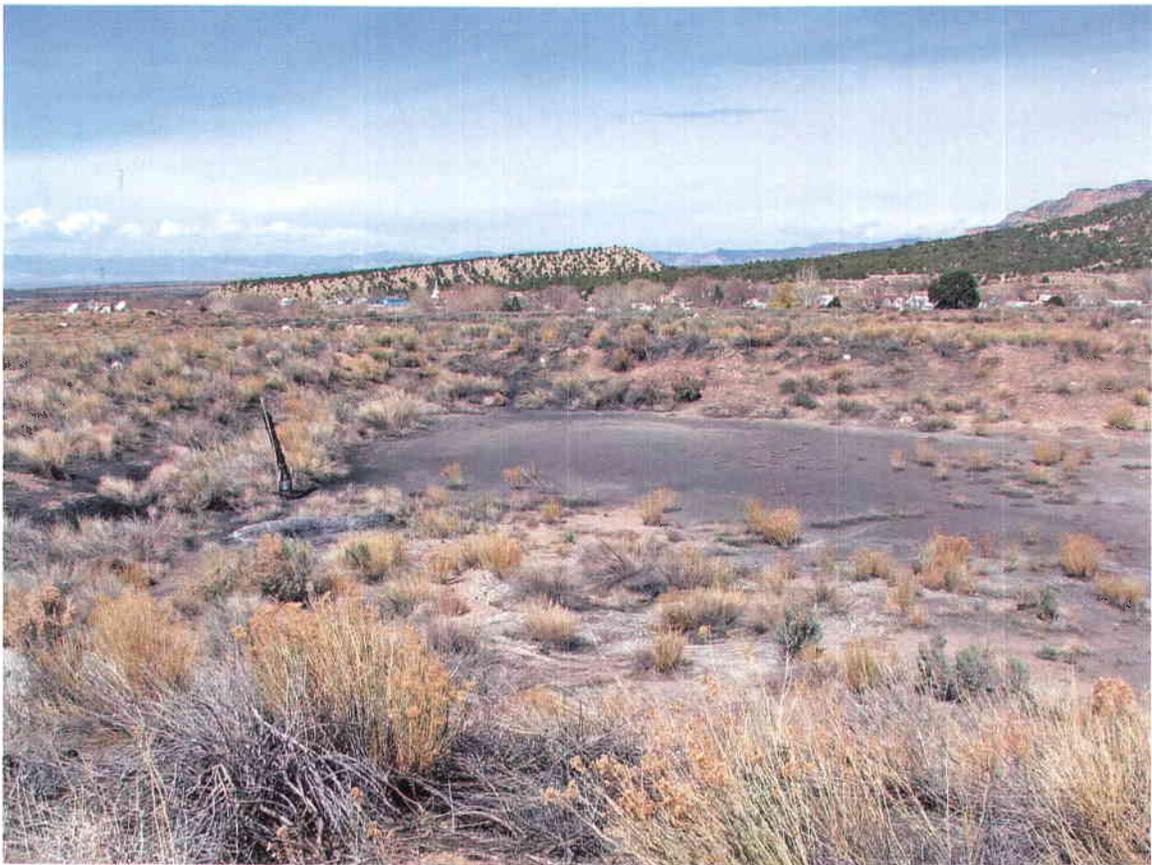
- Even with large precipitation event, there was no significant erosion on out-slopes or in-slopes of impoundment.
- There was some erosion on fine material within the impoundment, but posed no significant environmental consequence.
- This impoundment was created by the Sunnyside Coal Mine (*not* Sunnyside Co-generation Associates) as a settling pond for coal fines that were created at the mine site.
- It was later permitted by Sunnyside Co-generation Associates as a coal source for their power plant.
- Consequently, the fines from impoundment are currently being removed in a progressive manner, including the embankments.
- This impoundment's current function is *not* to retain water.
- Sunnyside Co-generation Associates are in the process of removing or abandoning this impoundment according to MSHA regulations.
- Color photographs of the East Slurry Cell Impoundment and embankments are included below.
- A Certificate of Training has also been included.





### Certificate of Training

Certificate of Training		U.S. Department of Labor Mine Safety and Health Administration																																													
Approved OMB Number 1219-0070, Expires November 30, 2004. This certificate is required under Public Law 91-173 as amended by Public Law 95-164. Failure to comply may result in penalties and other sanctions as provided by sections 108 and 110, Public Law 91-173 as amended by Public Law 95-164.																																															
<input checked="" type="checkbox"/> Issue Certificate Immediately Upon Completion of Training		Serial Number (for operator's use) <div style="text-align: center; font-size: large;">0348</div>																																													
1. Print Full Name of Person Trained (first, middle, last) <div style="text-align: center; font-size: large;">PATRICK COLLINS</div>																																															
2. Check Type of Approved Training Received:																																															
<input type="checkbox"/> Annual Refresher <input type="checkbox"/> New Task (specify below)		<input type="checkbox"/> Experienced Miner <input type="checkbox"/> Newly Employed, Inexperienced Miner <input checked="" type="checkbox"/> Other (specify) <i>Impound Refresher</i>																																													
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th rowspan="2">Date</th> <th rowspan="2">Task</th> <th colspan="2">Initials</th> <th rowspan="2">Date</th> <th rowspan="2">Task</th> <th colspan="2">Initials</th> </tr> <tr> <th>Instr</th> <th>Subj</th> <th>Instr</th> <th>Subj</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Date	Task	Initials		Date	Task	Initials		Instr	Subj	Instr	Subj																																
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		Instr	Subj	Instr	Subj																																										
3. Check Type of Operation and Related Industry:																																															
A. <input checked="" type="checkbox"/> Surface		<input type="checkbox"/> Construction																																													
B. <input checked="" type="checkbox"/> Coal		<input type="checkbox"/> Metal																																													
		<input type="checkbox"/> Underground																																													
		<input type="checkbox"/> Shaft & Slope																																													
		<input type="checkbox"/> Nonmetal																																													
4. Date Training Requirements Completed <div style="text-align: center; font-size: large;">10/11/2006</div> <input type="checkbox"/> Check if not completed and go to item 5, below.																																															
5. Check Subjects Completed (use only for partially completed training):																																															
<input type="checkbox"/> Introduction to Work Environment <input type="checkbox"/> Hazard Recognition <input type="checkbox"/> Emergency Medical Procedures <input type="checkbox"/> H&S Aspects of Tasks Assigned <input type="checkbox"/> Statutory Rights of Miners <input type="checkbox"/> Self-Rescue & Respiratory Devices <input type="checkbox"/> Transport & Communication Systems		<input type="checkbox"/> Roof/Ground Control & Ventilation <input type="checkbox"/> Mine Map, Escapeways, Emergency Evacuation, Barricading <input type="checkbox"/> Cleanup, Rock Dusting <input type="checkbox"/> Mandatory Health & Safety Standards <input type="checkbox"/> Authority & Responsibility of Supervisors & Miners' Representatives																																													
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7. Mine Name, ID, & Location of Training (if institution, give name & address) <div style="text-align: center; font-size: large;">CASH-D9 OFFICE          DFC, Box 25367, DENVER Co 80225</div>																																															
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		MSHA Form 5000-33, Aug. 83																																													



Clear Water Pond (looking northwesterly)

March 26, 2007



Railcut Pond (looking northerly)

March 26, 2007



Old Coarse Refuse Road Pond (looking westerly)

March 26, 2007



Pasture Pond (looking easterly)

March 26, 2007



Coarse Refuse Toe Pond (looking westerly)

March 26, 2007



Borrow Area Pond (looking northwesterly)

March 26, 2007

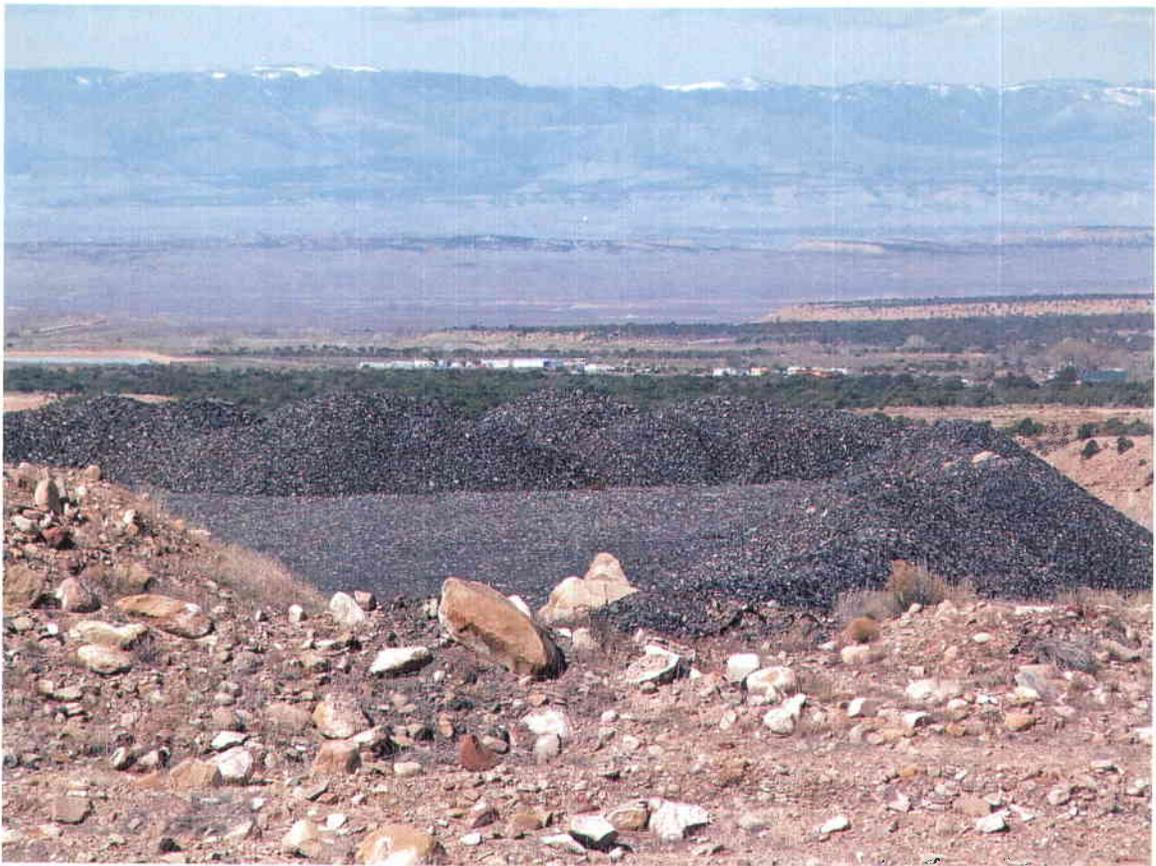


Coarse Refuse Pile (looking northeasterly)

March 26, 2007



Coarse Refuse Pile (looking southwesterly) (XS Spoil #1 in distance) March 26, 2007



Excess Spoil Disposal #1 (looking northwesterly)

March 26, 2007



Excess Spoil Disposal #2 (looking westerly)

March 26, 2007



Rail Cut Pond (looking southerly)

July 2007



Coarse Refuse Toe Pond (looking northwesterly)

July 2007



Pasture Pond (looking northwesterly)

July 2007



Pasture Pond (looking northwesterly)

October 2007



Coarse Refuse Pile (looking southeasterly)

October 2007



Coarse Refuse Pile (looking northwesterly)

October 2007



Coarse Refuse Pile (looking northerly)

October 2007



Excess Spoil Disposal Area #2 (beyond the grey pile) (looking northerly) October 2007



**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

May 09, 2007

Rusty Netz  
Sunnyside Cogeneration  
PO Box 159  
Sunnyside, UT 84539

TEL: (435) 888-4476

FAX: (435) 888-2538

RE: D06M

Lab Set ID: L77459

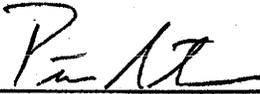
Dear Rusty Netz:

American West Analytical Labs received 4 samples on 4/25/2007 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

This cover page has been revised. There was insufficient sample volume to run the following analyses: Acid-Base accounting, SAR, and sulfur. It has been re-sampled, and these analytes will be reported on AWAL Set ID L77832.

Thank you.

Approved by: 

Laboratory Director or designee

Report Date: 5/9/2007 Page 1 of 13



## INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-01B  
Field Sample ID: North  
Collected: 12/14/2006  
Received: 4/25/2007

### TOTAL METALS

463 West 3600 South  
Salt Lake City, Utah  
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Boron	mg/kg-dry	5/9/2007 9:28:53 AM	6010B	57	< 57
Calcium	mg/kg-dry	5/8/2007 9:30:45 AM	6010B	1100	12000 *
Magnesium	mg/kg-dry	5/8/2007 3:36:24 AM	6010B	110	820
Selenium	mg/kg-dry	5/1/2007 9:05:23 PM	6020	0.57	5.1
Sodium	mg/kg-dry	5/9/2007 9:28:53 AM	6010B	110	890

\* The reporting limits were raised due to high analyte concentration.

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Report Date: 5/9/2007 Page 2 of 13

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-02B

Field Sample ID: South

Collected: 12/14/2006

Received: 4/25/2007

463 West 3600 South  
Salt Lake City, Utah  
84115

## TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Boron	mg/kg-dry	5/9/2007 9:33:06 AM	6010B	54	< 54
Calcium	mg/kg-dry	5/8/2007 9:34:51 AM	6010B	1100	17000 *
Magnesium	mg/kg-dry	5/8/2007 3:40:26 AM	6010B	110	650
Selenium	mg/kg-dry	5/1/2007 9:10:54 PM	6020	0.54	6.0
Sodium	mg/kg-dry	5/9/2007 9:33:06 AM	6010B	110	830

\* The reporting limits were raised due to high analyte concentration.

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer



## INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L77459-03B  
Field Sample ID: West  
Collected: 12/14/2006  
Received: 4/25/2007

### TOTAL METALS

Analytical Results	Units	Date	Method	Reporting	Analytical	
		Analyzed	Used	Limit	Results	
463 West 3600 South Salt Lake City, Utah 84115	Boron	mg/kg-dry	5/9/2007 9:37:10 AM	6010B	56	< 56
	Calcium	mg/kg-dry	5/8/2007 9:39:05 AM	6010B	1100	19000 *
	Magnesium	mg/kg-dry	5/8/2007 3:44:29 AM	6010B	110	4400
	Selenium	mg/kg-dry	5/1/2007 9:16:21 PM	6020	0.56	4.4
	Sodium	mg/kg-dry	5/9/2007 9:37:10 AM	6010B	110	780

\* The reporting limits were raised due to high analyte concentration.

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Laboratory Director

Peggy McNicol  
QA Officer

Report Date: 5/9/2007 Page 4 of 13

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# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-04B  
Field Sample ID: East  
Collected: 12/14/2006  
Received: 4/25/2007

463 West 3600 South  
Salt Lake City, Utah  
84115

## TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Boron	mg/kg-dry	5/9/2007 9:41:09 AM	6010B	55	< 55
Calcium	mg/kg-dry	5/8/2007 9:42:58 AM	6010B	1100	13000 *
Magnesium	mg/kg-dry	5/8/2007 3:48:29 AM	6010B	110	500
Selenium	mg/kg-dry	5/1/2007 9:32:36 PM	6020	0.55	3.6
Sodium	mg/kg-dry	5/9/2007 9:41:09 AM	6010B	110	640

\* The reporting limits were raised due to high analyte concentration.

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer



ANALYTICAL REPORT

Client: Sunnyside Cogeneration  
Project ID:: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-01A  
Field Sample ID: North  
Collected: 12/14/2006  
Received: 4/25/2007

Analyzed: 4/27/2007

Analysis Requested: USC

**Result** **USC**

---

463 West 3600 South  
Salt Lake City, Utah  
84115

Uniform Soil Classification

Poorly Graded Gravel

**% Moisture: 14**  
**\*,H**

---

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

*H - Sample had expired upon receipt.*

*\* Insufficient sample volume was received to comply with the method.*



ANALYTICAL REPORT

Client: Sunnyside Cogeneration  
Project ID:: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-02A  
Field Sample ID: South  
Collected: 12/14/2006  
Received: 4/25/2007

Analyzed: 4/27/2007

Analysis Requested: USC

**Result**

**USC**

463 West 3600 South  
Salt Lake City, Utah  
84115

Uniform Soil Classification

Poorly Graded Gravel

**% Moisture: 7.9**

**\*,H**

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

*H - Sample had expired upon receipt.*

*\* Insufficient sample volume was received to comply with the method.*



ANALYTICAL REPORT

Client: Sunnyside Cogeneration  
Project ID:: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-03A  
Field Sample ID: West  
Collected: 12/14/2006  
Received: 4/25/2007

Analyzed: 4/27/2007

Analysis Requested: USC

Result		USC
Uniform Soil Classification	Poorly Graded Gravel	% Moisture: 9.8 *,H

463 West 3600 South  
Salt Lake City, Utah  
84115

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

*H - Sample had expired upon receipt.*

*\* Insufficient sample volume was received to comply with the method.*



ANALYTICAL REPORT

Client: Sunnyside Cogeneration  
Project ID:: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-04A  
Field Sample ID: East  
Collected: 12/14/2006  
Received: 4/25/2007

Analyzed: 4/27/2007

Analysis Requested: USC

**Result** **USC**

---

463 West 3600 South  
Salt Lake City, Utah  
84115

Uniform Soil Classification

Poorly Graded Gravel

**% Moisture: 6.6**

**\*,H**

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Laboratory Director

Peggy McNicol  
QA Officer

*H - Sample had expired upon receipt.*

*\* Insufficient sample volume was received to comply with the method.*

Report Date: 5/9/2007 Page 9 of 13

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# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-01  
Field Sample ID: North  
Collected: 12/14/2006  
Received: 4/25/2007

463 West 3600 South  
Salt Lake City, Utah  
84115

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
Conductivity	µmhos/cm	4/26/2007 6:00:00 AM	9050A	10	1800	H*
Nitrate (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.012	0.57	H
Nitrate/Nitrite (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.012	0.57	H
pH @ 25° C	pH units	4/25/2007 4:15:00 PM	9045D	0	4.08	H
TKN (as N)	mg/kg-dry	5/4/2007 12:48:00 PM	351.2	58	2100	@H
Total Nitrogen (as N)	mg/kg-dry	5/7/2007		0.10	2100	
Total Volatile Solids	%	5/1/2007 9:30:00 AM	160.4	0.010	14	H

*H - Sample was received outside of holding time.*

*\*Analysis is performed on a 1:1 DI water extract for soils.*

*@ High RPD due to suspected matrix interference.*

*<sup>2</sup> Analyte concentration is too high for accurate spike recovery.*



# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-02

Field Sample ID: South

Collected: 12/14/2006

Received: 4/25/2007

463 West 3600 South  
Salt Lake City, Utah  
84115

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
Conductivity	µmhos/cm	4/26/2007 6:00:00 AM	9050A	10	2000	H*
Nitrate (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.57	H
Nitrate/Nitrite (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.61	H
pH @ 25° C	pH units	4/25/2007 4:15:00 PM	9045D	0	4.02	H
TKN (as N)	mg/kg-dry	5/4/2007 12:48:00 PM	351.2	54	1400	H
Total Nitrogen (as N)	mg/kg-dry	5/1/2007		0.10	1400	
Total Volatile Solids	%	5/1/2007 9:30:00 AM	160.4	0.010	12	H

*H - Sample was received outside of holding time.*

*\*Analysis is performed on a 1:1 DI water extract for soils.*



# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-03  
Field Sample ID: West  
Collected: 12/14/2006  
Received: 4/25/2007

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
e-mail: awal@awal-Labs.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
Conductivity	µmhos/cm	4/26/2007 6:00:00 AM	9050A	10	1900	H*
Nitrate (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.37	H
Nitrate/Nitrite (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.37	H
pH @ 25° C	pH units	4/25/2007 4:15:00 PM	9045D	0	4.74	H
TKN (as N)	mg/kg-dry	5/4/2007 12:48:00 PM	351.2	55	770	H
Total Nitrogen (as N)	mg/kg-dry	5/7/2007		0.10	770	
Total Volatile Solids	%	5/1/2007 9:30:00 AM	160.4	0.010	14	H

*H - Sample was received outside of holding time.*

*\*Analysis is performed on a 1:1 DI water extract for soils.*



# INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77459-04  
Field Sample ID: East  
Collected: 12/14/2006  
Received: 4/25/2007

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
Conductivity	µmhos/cm	4/26/2007 6:00:00 AM	9050A	10	2000	H*
Nitrate (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.34	H
Nitrate/Nitrite (as N)	mg/kg-dry	4/27/2007 3:49:00 PM	353.2	0.011	0.34	H
pH @ 25° C	pH units	4/25/2007 4:15:00 PM	9045D	0	4.09	H
TKN (as N)	mg/kg-dry	5/4/2007 12:48:00 PM	351.2	54	2200	H
Total Nitrogen (as N)	mg/kg-dry	5/7/2007		0.10	2200	
Total Volatile Solids	%	5/1/2007 9:30:00 AM	160.4	0.010	11	H

*H - Sample was received outside of holding time.*

*\*Analysis is performed on a 1:1 DI water extract for soils.*



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

463 West 3600 South  
Salt Lake City, Utah  
84115

June 18, 2007

Rusty Netz  
Sunnyside Cogeneration  
PO Box 159  
Sunnyside, UT 84539

TEL: (435) 888-4476

FAX: (435) 888-2538

RE: D06M

Lab Set ID: L77832

Dear Rusty Netz:

American West Analytical Labs received 1 sample on 5/14/2007 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Pages 1 - 3 have been revised and renumbered. Acid base accounting was missing from original report.

Thank you.

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e-mail: awal@awal-Labs.com

Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Approved by:   
Laboratory Director or designee

Report Date: 6/18/2007 Page 1 of 3



## INORGANIC ANALYSIS REPORT

Client: Sunnyside Cogeneration  
Project ID: D06M

Contact: Rusty Netz

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L77832-01A  
Field Sample ID: Composite: North, South, West, East  
Collected: 5/13/2007  
Received: 5/14/2007

### TOTAL METALS

463 West 3600 South  
Salt Lake City, Utah  
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
SAR		5/19/2007 10:10:42 AM		0.010	5.7

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Report Date: 6/18/2007 Page 2 of 3

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



## INORGANIC ANALYSIS REPORT

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

463 West 3600 South  
Salt Lake City, Utah  
84115

Client: Sunnyside Cogeneration      Contact: Rusty Metz  
Collected: May 13, 2006  
Received: May 14, 2006  
Analysis Method: Sobeck et al  
Lab Sample Set ID: L77832  
Calculated: June 12, 2007  
Units =  $\frac{\text{tons of CaCO}_3 \text{ equivalents}}{1000 \text{ tons of material}}$

### Analytical Results

Lab Sample ID	Client Sample ID	Acid Generation Potential	Acid Neutralization Potential	Acid Base Account
L77832-01	Composite - North South, East, West	2.5	42	-39.5

The laboratory is not approved by NELAC for this method.

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Kyle F. Gross  
Laboratory Director

Peggy McNicol  
QA Officer

Report Date: 6/18/2007 Page 3 of 3