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In C/007/035 Incoming
For additional information

2005 Annual Report

Sunnyside Cogeneration Associates
Sunnyside Refuse and Slurry
C/007/035

SUNNYSIDE COGENERATION ASSOCIATES
SUNNYSIDE REFUSE/SLURRY
C/007/035
2005 ANNUAL REPORT

Submitted to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

SUNNYSIDE COGENERATION ASSOCIATES

SUNNYSIDE REFUSE/SLURRY
2005 ANNUAL REPORT

TABLE OF CONTENTS

I. General Permit Information:

II. Identification of Other Permits

III. Certified Reports

IV. Reporting of Other Technical Data

1. Climatological Data
2. Subsidence Monitoring Data
3. Vegetation Monitoring Data
4. Raptor Surveys
5. Water Monitoring Data
6. Geological / Geophysical Data
7. Engineering Data (Refuse Excavation and Spoils Disposal)
8. Soils Monitoring Data
9. Other Data

V. Legal, Financial, Compliance and Related Information
Certificates of Existance from the Department of Commerce

VI. Mine Maps

Appendix A Certified Reports

Appendix B-1 Climatological Data

Appendix B-2 Vegetation Monitoring
And Photographs of the Interim Revegetation Areas

Appendix B-3 Water Monitoring

Appendix C Dept of Commerce, Certificates of Existence

Appendix D Mine Map

I. GENERAL PERMIT INFORMATION

Permit Number:	C/007/035
Mine Name:	Sunnyside Refuse/Slurry
Permittee:	Sunnyside Cogeneration Associates
Company Representative & Resident Agent:	Mr. Michael J. Blakey One Power Plant Road PO Box 159 Sunnyside, UT 84539 (435) 888-4476 (435) 888-2538 fax
Date of Initial Permanent Program Permit:	February 4, 1993
Date of Most Recent Permit Renewal:	February 4, 2003
Date of Expiration:	February 4, 2008

II. IDENTIFICATION OF OTHER PERMITS

MSHA ID Numbers:	Sunnyside Waste Coal Site	42-02093
	Coarse Refuse Pile	1211-UT-09-02093-01
	East Slurry Cell	1211-UT-09-02093-02
	Excess Spoil Disposal Area #1	1211-UT-09-02093-04
	Excess Spoil Disposal Area #2	1211-UT-09-02093-05

UPDES Permit Number: UT0024759 Renewed effective August 1, 1992
Expires July 31, 2007

Air Quality Title V Operating Permit: #700030001

Sunnyside's Operating permit was modified effective November 1, 2002 (DAQO-702038-02) to add some equipment to the power plant. Most of the emissions are associated with the power plant adjacent to the SCA Sunnyside mining permit area. The mining operation generates little to no emissions. However the Operating Permit covers all of SCA's operations in Sunnyside.

SCA will be working to renew the Title V permit during 2006.

III. CERTIFIED REPORTS

Each impoundment as well as the Refuse Pile and Excess Spoil Disposal Areas were inspected in accordance with the requirements of the Mining and Reclamation Permit. The quarterly and annual inspection / certification reports were submitted to the Division throughout the year. These reports are also included in **Appendix A**.

All of the impoundments met or exceeded the storage capacity requirements identified in the permit. No discharges occurred from any of the impoundments during 2005.

No new construction of the Excess Spoil Disposal Area #1 occurred in 2005.

Construction of the Excess Spoil Disposal Area #2 commenced in 1999, continued through 2000 and 2001, and received all of the spoils materials and coal reject materials generated during 2002 through 2005. Construction is progressing in general conformance with design requirements as currently approved. SCA intends to seek a permit amendment to make certain revisions to the design criteria for the outer slopes of this disposal area. SCA gathered soil samples from the Excess Spoil Area #2 near the end of 2005. Test results will be included in a 2006 quarterly inspection reports after they are received.

Excavation of Coarse and Fine Refuse from the Refuse Pile occurred in general conformance with the operational criteria and performance standards established in the permit.

IV. REPORTING OF OTHER TECHNICAL DATA

1. Climatological Data

SCA has obtained precipitation and climatological data for 2005 from the Sunnyside Weather Station operated by the City of Sunnyside. A summary table identifying this data is included in **Appendix B-1.**

2. Subsidence Monitoring Data

No subsidence monitoring is required by the approved plan. No material damage or diminution within the Permit Area will be caused by subsidence because no underground coal resources are available within the permit area that would cause subsidence. No past or future underground coal mining operations have or are likely to occur within the SCA Permit Area.

3. Vegetation Monitoring Data

During 2005, no new areas received final reclamation treatment.

SCA performed quantitative sampling of the Old Coarse Refuse Road that was reclaimed in 1994. The report prepared to document this revegetation monitoring is included in **Appendix B-2.** This report notes the following concerning the revegetation success:

- Total Living Cover was estimated at 57.80% with Forbs (4.40%) Shrubs (43.24%) and grasses (52.36%) as the dominant life forms. Forb species cover was less than 1% of the living cover.
- The dominant plant species in the total living cover were cheatgrass (*Bromus tectorum),* four-wing salt bush (*Atriplex canescens*) and shadscale (*A. confertifolia*).
- The total density of the woody plant species for the reclaimed road was estimated at 3283 plants per acre. The most common shrubs in this measure were four-wing saltbush, winterfat (*Ceratoides lanata*), and shadscale (*Atriplex confertifolia*).
- The Atriplex/Grass Reference Area, had a total living cover of 38.75%. Grasses dominated this site and comprised 63.79% of the living cover, whereas, the shrubs proportion was 27.71% and forbs 8.50%.
- The total woody species density for the reference area was estimated at 1,461 plants per acre.
- Statistical comparison (Student's t-tests) between the reclaimed Old Coarse

Refuse Road and the Atriplex/Grass Reference area suggested that the reclaimed road was significantly greater than the reference area. MacArthur's Index suggested that the reclaimed road was slightly more diverse than the reference area.

Interim reseeding has been performed in previous years on several areas throughout the permit site. This interim seeding was accomplished using the approved interim seed mix included in the permit. Photos of some of these areas were taken to document the revegetation progress and are included at the end of **Appendix B-2**. These photos include areas such as:

- North face of the upper lifts of the Coarse Refuse Pile
- East and South Embankments of the East Slurry Cell
- Reclamation Borrow Area and Topsoil Piles
- Railcut and Coarse Refuse Toe Topsoil Piles
- Storage Area Topsoil Pile

Other areas previously reseeded with the interim revegetation seed mix (such as topsoil stockpiles, borrow areas and other minor erosion repairs) have been periodically checked by SCA and appear to have vegetative growth similar to the surrounding area.

4. Raptor Surveys

Discussions were held in 1998 with the Division concerning whether or not raptor surveys would be needed. Both the permittee and the Division have agreed that, considering the location of the permit site and the ongoing nature of SCA's activities, it is highly unlikely that the mining and reclamation activities of SCA would negatively affect raptor nesting sites. Therefore, raptor studies would have little value and are not required by the approved permit. Hence, no raptor studies have been performed.

5. Water Monitoring Data

As required in the approved plan, SCA performed quarterly water monitoring at the specified surface and ground water monitoring locations. These sites were analyzed according to the Operational Water Quality Monitoring Parameters listed in the approved plan (Appendix 7-8). The results of these analyses indicate that the water quality has remained in general similarity to that observed during the Baseline Monitoring Period of June 1993-1995. A summary of the operational water quality data obtained during the 1996-2002 period is included in the approved permit as Appendix 7-10.

The water data from each of the quarterly monitoring periods was submitted to the Division throughout the year. Most of the data was submitted to the Division electronically. An additional copy of the paper submittals has been included in **Appendix B-3** of this report.

6. Geological / Geophysical Data

No periodic Geological / Geophysical monitoring is required in the approved plan. The data included as resource information in the plan is considered adequate for the operations of SCA. In the event that the operations of SCA change dramatically such that additional geologic or geophysical data becomes necessary, additional analysis will be performed at that time.

7. Engineering Data

a. Refuse Excavation

During 2005, SCA processed a total of 546,078 tons of coal materials at the Sunnyside facility. This included 319,954 tons excavated from the Sunnyside permit area, 41,575 tons excavated from the Sunnyside permit area but rejected to the Excess Spoil Disposal Area #2 and 184,549 tons received from the Star Point facility. (An additional 42,019 tons received from Star Point was stockpiled in the temporary storage areas, but not yet processed for fuel).

b. Excess Spoils Disposal Area #1

No new construction of the Excess Spoil Disposal Area #1 occurred in 2005.

c. Excess Spoil Disposal Area #2

Placement and compaction of fill material occurred throughout 2005. Materials placed in the disposal area consist mostly of coarse refuse rejects, but also include some general spoils material. The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site. Approximately 41,575 tons of material were placed in this disposal area during 2005. (1st qtr – 8,505 tons, 2nd qtr – 9,553 tons, 3rd qtr – 7,401 tons, 4th qtr 16,116 tons).

SCA intends to seek an amendment to the mining and reclamation permit requesting a change to the slope of the excess spoil disposal area. SCA is continuing to follow the

currently approved design until any changes are approved.

Inspections of the spoils areas are conducted on a quarterly basis. Reports from these site visits are submitted to the Division throughout the year and have been included in this report with the certified reports. Photographs documenting the spoils pile have been included with the corresponding report. Soil samples taken near the end of 2005 will be reported in 2006 when the test results are available.

8. Soils Monitoring Data

No periodic soil monitoring is required by the approved plan. The approved borrow areas reserved for reclamation activities have previously undergone soils studies from which the data is included in Chapter 2 of the Permit.

In the event that SCA determines it necessary to utilize soils from other sources for reclamation, the proper analysis will be performed at that time.

9. Other Data

No additional periodic data is required in the approved plan.

V. LEGAL, FINANCIAL, COMPLIANCE & RELATED INFORMATION

Sunnyside Cogeneration Associates is a joint venture between Sunnyside Holdings I, Inc. and Sunnyside II, L.P. **Appendix C** includes copies of the Certificates of Existence for Sunnyside Cogeneration Associates, Sunnyside Holdings I. Inc. and Sunnyside II, L.P. The Utah Department of Commerce, Division of Corporations and Commercial Code issues these certificates. They demonstrate that the entities are in good standing with the State of Utah.

VI. MINE MAPS

The mine map included in **Appendix D** of this report provides an update to the surface configuration of the refuse area being excavated. This refuse is then utilized as fuel for the adjacent Cogeneration Facility. The aerial survey used to generate contours of the site was performed in March 2001. The mining areas, which were active since the photography was taken have been identified on the map. A field survey was conducted in March 2004 to determine the current surface of the refuse pile. These survey points are shown on the mine map. A recent photograph of the active mining area has been added to the map to show current conditions.

APPENDIX A
CERTIFIED REPORTS

APPENDIX A
CERTIFIED REPORTS

FIRST QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Clear Water Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Clear Water Pond	
	Impoundment Number	004	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.9 acre-feet
Maximum Sediment Depth Elevation = 6527
Existing Sediment Elevation = 6523+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6530.1

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good

No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 was essentially empty.

No structure or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 Senior Project Manager
(Full Name and Title)

Signature: Scott Carlson **Date:** 4/8/05

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Railcut Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Railcut Sediment Pond	
	Impoundment Number	007	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.8 acre-feet
Maximum Sediment Depth Elevation = 6209
Estimated Existing Sediment Elevation = 6207+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6212.34
Primary Drain Elevation = 6209.07
Maximum Sediment Depth Elevation = 6209.07

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good,
no structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. Pond was essentially empty.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S Scott Carlson

Date: 6/5/2008

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		OCRR Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

4. 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 outslopes of embankments, etc.

No discharge, Pond was essentially empty. inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes, no structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 4/8/

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Pasture Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Pasture Sediment Pond	
	Impoundment Number	009	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.0 acre-feet Maximum Sediment Depth Elevation = 6485.5 Estimated Existing Sediment Elevation = 6484+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6490.6 Primary Drain Elevation = 6486.6

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

4. **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 outslopes of embankments, etc.

Pond had some water in the bottom.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S Scott Carlson **Date:** 1/8/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		CRT Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.6 acre-feet Maximum Sediment Depth Elevation = 6177.0 Estimated Existing Sediment Elevation = 6176+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6183.63 Primary Drain Elevation = 6178.2

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 11/8/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		COAL RUNOFF POND	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Coal Runoff Sediment Pond	
	Impoundment Number	014	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6475±
	3. Principle and emergency spillway elevations. Spillway Elevation = 6477.9 Emergency Spillway Elevation = 6479.0

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 4/8/0

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Borrow Area Pond	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Borrow Area Pond	
	Impoundment Number	016	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 8.3 acre-feet Maximum Sediment Depth Elevation = 6513.3 Estimated Existing Sediment Elevation = 6511+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6517.03 Primary Drain Elevation = 6514.3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S Scott Carlson **Date:** 11/1/05

P.E. Number & State: 187727 Utah

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		East Slurry Cell	
Permit Number	ACT/007/035	**Report Date** 4/8/05	
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	March 25, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	First Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 27+- acre-feet Maximum Sediment Depth Elevation = N/A Estimated Existing Sediment Elevation = N/A
	3. Principle and emergency spillway elevations. N/A

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond and coal fine storage. No structural or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 4/8/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 8/8/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
#187727
S. SCOTT CARLSON
STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Coarse Refuse Pile
Permit Number	ACT/007/035	**Report Date 4/8/05**
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	March 25, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		First Quarter Inspection 2005
		Attachments to Report? ☐ No X 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

   Removal of Coarse and fine Refuse Material Only

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Coarse Refuse Pile

5. **Final grading and revegetation of fill.**

N/A

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

No smokers visible

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.**

Waste Coal Removal

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date** 7/8/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

Coarse Refuse Pile looking northwesterly March 25, 2005

Coarse Refuse Pile Looking northeasterly March 25, 2005

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #1
Permit Number	ACT/007/035	**Report Date 4/8/05**
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	March 25, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		First Quarter Inspection 2005
		Attachments to Report? X **No** ☐ **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.**

   Did not receive spoils material during this Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	

5. **Final grading and revegetation of fill.**

N/A

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

None

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.**

No Construction occurred during this quarter. Construction in previous quarters had been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S Scott Carlson **Date:** 1/8/15

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #2	
Permit Number	ACT/007/035	**Report Date 4/8/05**	
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	March 25, 2005		
Inspected By	Scott Carlson		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		First Quarter Inspection 2005	
		Attachments to Report? ☐ **No** X **Yes**	

Field Evaluation

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

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

2. **Placement of underdrains and protective filter systems.**

Under-drains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and storm water rerouted to other impoundments.

3. **Installation of final surface drainage systems.**

N/A

4. **Placement and compaction of fill materials.**

Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan.

Approximately 8505 tons of material were placed during the Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #2	

5. **Final grading and revegetation of fill.**

N/A

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

None

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 Pond #1 and Slurry Pond #2 have been approved to be and are being filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

In accordance with the approved plan, SCA has begun removing the coal fines lining the old slurry ditch along the east side of this pile. These materials are being used in the power plant. Removal of these materials facilitates the construction of the east access road and drainage ditch shown on the approved plan. See attached photos.

Four samples of the material placed in this disposal area were gathered and analyzed in May 2004. The results of the analysis were provided recently and are included with this inspection report.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 4/8/0

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

Excess Spoil Disposal Area #2 Looking South March 25, 2005

Excess Spoil Area #2 Looking south along the old slurry ditch March 25, 2005

SGS

June 04, 2004

Sunnyside Operations
P.O. Box 159
#1 Power Plant Road
Sunnyside, UT 84539
USA

Client Sample ID: SW
Date Received: 05/12/2004
Matrix: Soil

Project Name/# : Reject Samples

SGS Sample ID: 072-9346-004

Analyte	Result	
pH	7.72	s.u.
Neutralization Potential	140	t/1000t
Conductivity	7.39	mmhos/cm
Sand	82	%
Calcium, Soluble	56.5	meq/L
Carbon, Total Organic	11.8	%
Sulfur, AP	49.1	t/1000t
Acid Base Potential	90.9	t/1000t
Sulfur, Total	1.57	%
Nitrogen, Nitrate	5.32	ppm
Selenium, Hot Water	0.09	ppm
Boron, Total	1.05	ppm
Nitrogen, Total	0.14	%
Silt	10	%
Magnesium, Soluble	66.1	meq/L
Clay	8	%
Sodium, Soluble	38.2	meq/L
Texture Class	Loamy Sand	
Sodium Absorption Ratio	4.88	

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Kristi Bells

Denver Laboratory

SGS North America Inc | Minerals Services Division
4665 Paris Street, Suite B 200, Denver, CO 80239 t (303) 373-4772 f (303) 373-4791 www.sgs.com

Member of the SGS Group

TERMS AND CONDITIONS ON REVERSE

F-495

SGS

June 04, 2004

Sunnyside Operations
P.O. Box 159
#1 Power Plant Road
Sunnyside, UT 84539
USA

Client Sample ID: SE
Date Received: 05/12/2004
Matrix: Soil

Project Name/# : Reject Samples

SGS Sample ID: 072-9346-002

Analyte	Result	
pH	6.26	s.u.
Neutralization Potential	46.3	t/1000t
Conductivity	3.21	mmhos/cm
Sand	86	%
Calcium, Soluble	54.0	meq/L
Carbon, Total Organic	24.0	%
Sulfur, AP	41.6	t/1000t
Acid Base Potential	4.70	t/1000t
Sulfur, Total	1.33	%
Nitrogen, Nitrate	1.18	ppm
Selenium, Hot Water	0.03	ppm
Boron, Total	<0.01	ppm
Nitrogen, Total	0.28	%
Silt	8	%
Magnesium, Soluble	39.5	meq/L
Clay	6	%
Sodium, Soluble	1.49	meq/L
Texture Class	Loamy Sand	
Sodium Absorption Ratio	0.22	

MEMBER ACIL

Respectfully submitted.
SGS NORTH AMERICA INC.

Kristi Bells

Denver Laboratory

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Member of the SGS Group

F 465

TERMS AND CONDITIONS ON REVERSE

SGS

June 04, 2004

Sunnyside Operations
P.O. Box 159
#1 Power Plant Road
Sunnyside, UT 84539
USA

Client Sample ID: NW
Date Received: 05/12/2004
Matrix: Soil

Project Name/# : Reject Samples

SGS Sample ID: 072-9346-003

Analyte	Result
pH	6.92 s.u.
Neutralization Potential	58.3 t/1000t
Conductivity	3.61 mmhos/cm
Sand	88 %
Calcium, Soluble	60.4 meq/L
Carbon, Total Organic	23.8 %
Sulfur, AP	26.3 t/1000t
Acid Base Potential	32.0 t/1000t
Sulfur, Total	0.84 %
Nitrogen, Nitrate	2.24 ppm
Selenium, Hot Water	0.04 ppm
Boron, Total	1.03 ppm
Nitrogen, Total	0.33 %
Silt	6 %
Magnesium, Soluble	39.0 meq/L
Clay	6 %
Sodium, Soluble	4.96 meq/L
Texture Class	Sand
Sodium Absorption Ratio	0.70

MEMBER ACIL

Respectfully submitted.
SGS NORTH AMERICA INC.

Kristi Bells

Denver Laboratory

SGS North America Inc | Minerals Services Division
4665 Paris Street, Suite B-200, Denver, CO 80239 t (303) 373-4772 f (303) 373-4791 www.sgs.com

Member of the SGS Group

F-405

TERMS AND CONDITIONS ON REVERSE

SGS

June 04, 2004

Sunnyside Operations
P.O. Box 159
#1 Power Plant Road
Sunnyside, UT 84539
USA

Client Sample ID: NE
Date Received: 05/12/2004
Matrix: Soil

Project Name/# : Reject Samples

SGS Sample ID: 072-9346-001

Analyte	Result	
pH	6.68	s.u.
Neutralization Potential	27.1	t/1000t
Conductivity	2.33	mmhos/cm
Sand	90	%
Calcium, Soluble	31.9	meq/L
Carbon, Total Organic	29.6	%
Sulfur, AP	29.4	t/1000t
Acid Base Potential	-2.30	t/1000t
Sulfur, Total	0.94	%
Nitrogen, Nitrate	1.28	ppm
Selenium, Hot Water	0.03	ppm
Boron, Total	<0.01	ppm
Nitrogen, Total	0.47	%
Silt	6	%
Magnesium, Soluble	18.9	meq/L
Clay	4	%
Sodium, Soluble	1.75	meq/L
Texture Class	Sand	
Sodium Absorption Ratio	0.35	

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Kristi Bells

Denver Laboratory

SGS North America Inc | Minerals Services Division
4665 Paris Street Suite B-200, Denver, CO 80239 t (303) 373-4772 f (303) 373-4791 www.sgs.com

Member of the SGS Group

F-465

TERMS AND CONDITIONS ON REVERSE

APPENDIX A
CERTIFIED REPORTS

SECOND QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Clear Water Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Clear Water Pond	
	Impoundment Number	004	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 4.9 acre-feet Maximum Sediment Depth Elevation = 6527 Existing Sediment Elevation = 6523+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6530.1

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good

No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 was essentially empty.

No structure or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Railcut Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Railcut Sediment Pond	
	Impoundment Number	007	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 4.8 acre-feet Maximum Sediment Depth Elevation = 6209 Estimated Existing Sediment Elevation = 6207+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6212.34 Primary Drain Elevation = 6209.07 Maximum Sediment Depth Elevation = 6209.07

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good,
no structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. Pond was essentially empty.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER
No. 187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		OCRR Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

4. **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 outslopes of embankments, etc.

No discharge, Pond was essentially empty. inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes, no structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Pasture Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Pasture Sediment Pond	
	Impoundment Number	009	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.0 acre-feet Maximum Sediment Depth Elevation = 6485.5 Estimated Existing Sediment Elevation = 6484+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6490.6 Primary Drain Elevation = 6486.6

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

4. **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 outslopes of embankments, etc.

Pond had some water in the bottom.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		CRT Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.6 acre-feet Maximum Sediment Depth Elevation = 6177.0 Estimated Existing Sediment Elevation = 6176+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6183.63 Primary Drain Elevation = 6178.2

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		COAL RUNOFF POND	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Coal Runoff Sediment Pond	
	Impoundment Number	014	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6475±
	3. Principle and emergency spillway elevations. Spillway Elevation = 6477.9 Emergency Spillway Elevation = 6479.0

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Borrow Area Pond	
Permit Number	ACT/007/035	**Report Date** 7/25/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Borrow Area Pond	
	Impoundment Number	016	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 8.3 acre-feet Maximum Sediment Depth Elevation = 6513.3 Estimated Existing Sediment Elevation = 6511+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6517.03 Primary Drain Elevation = 6514.3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 18772 Utah

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

Permit Number	ACT/007/035	**Report Date** 7/25/05	
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	June 22, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Second Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 27+- acre-feet Maximum Sediment Depth Elevation = N/A Estimated Existing Sediment Elevation = N/A
	3. Principle and emergency spillway elevations. N/A

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond and coal fine storage. No structural or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 7/25/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Coarse Refuse Pile
Permit Number	ACT/007/035	**Report Date 7/25/05**
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	June 22, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Second Quarter Inspection 2005
		Attachments to Report? ☐ No X 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

   Removal of Coarse and fine Refuse Material Only

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Coarse Refuse Pile

5. **Final grading and revegetation of fill.**

N/A

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

No smokers visible

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.**

Waste Coal Removal

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

SCA Sunnyside Coarse Refuse Pile – Looking West June 22, 2005

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #1	
Permit Number	ACT/007/035	**Report Date 7/25/05**	
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	June 22, 2005		
Inspected By	Scott Carlson		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Second Quarter Inspection 2005	
		Attachments to Report? X **No** ☐ **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.**

   Did not receive spoils material during this Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	

5. **Final grading and revegetation of fill.**

N/A

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

None

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.**

No Construction occurred during this quarter. Construction in previous quarters had been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #2	
Permit Number	ACT/007/035	**Report Date 7/25/05**	
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	June 22, 2005		
Inspected By	Scott Carlson		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Second Quarter Inspection 2005	
		Attachments to Report? ☐ **No** X **Yes**	

Field Evaluation

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

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

2. **Placement of underdrains and protective filter systems.**

Under-drains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and storm water rerouted to other impoundments.

3. **Installation of final surface drainage systems.**

N/A

4. **Placement and compaction of fill materials.**

Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan.

Approximately 9,553 tons of material were placed during the Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #2	

5. **Final grading and revegetation of fill.**

N/A

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

None

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 Pond #1 and Slurry Pond #2 were approved for and have been filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2. A pile is being constructed on top of the filled ponds with gentle slopes in accordance with the currently approved plan. See attached photos.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

In accordance with the approved plan, SCA has begun removing the coal fines lining the old slurry ditch along the east side of this pile. These materials are being used in the power plant. Removal of these materials facilitates the construction of the east access road and drainage ditch shown on the approved plan. See attached photos.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 7/25/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

Excess Spoil Disposal Area #2 looking south June 22, 2005

Exposed Wall along east side of Excess Spoil Disposal Area #2 June 22, 2005

APPENDIX A
CERTIFIED REPORTS

THIRD QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Clear Water Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Clear Water Pond	
	Impoundment Number	004	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 4.9 acre-feet Maximum Sediment Depth Elevation = 6527 Existing Sediment Elevation = 6523+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6530.1

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

4. 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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good

No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 was essentially empty.

No structure or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 10/14/05

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Railcut Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Railcut Sediment Pond	
	Impoundment Number	007	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 4.8 acre-feet Maximum Sediment Depth Elevation = 6209 Estimated Existing Sediment Elevation = 6207+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6212.34 Primary Drain Elevation = 6209.07 Maximum Sediment Depth Elevation = 6209.07

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

4. 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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good,
no structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. Pond was essentially empty.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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, P.E Senior Project Manager

Signature: S. Scott Carlson Date: 10/14/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		OCRR Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

4. **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 outslopes of embankments, etc.

No discharge, Pond was essentially empty. inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes, no structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 10/14/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Pasture Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Pasture Sediment Pond	
	Impoundment Number	009	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND

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

Storage Capacity = 1.0 acre-feet
Maximum Sediment Depth Elevation = 6485.5
Estimated Existing Sediment Elevation = 6484+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6490.6
Primary Drain Elevation = 6486.6

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

4. 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 outslopes of embankments, etc.

Pond had some water in the bottom.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S Scott Carlson **Date:** 10/24/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		CRT Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.6 acre-feet Maximum Sediment Depth Elevation = 6177.0 Estimated Existing Sediment Elevation = 6176+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6183.63 Primary Drain Elevation = 6178.2

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 10/14/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT
CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		COAL RUNOFF POND	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Coal Runoff Sediment Pond	
	Impoundment Number	014	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6475±
	3. Principle and emergency spillway elevations. Spillway Elevation = 6477.9 Emergency Spillway Elevation = 6479.0

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: S Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S Scott Carlson **Date:** 10/14/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Borrow Area Pond	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Borrow Area Pond	
	Impoundment Number	016	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 8.3 acre-feet Maximum Sediment Depth Elevation = 6513.3 Estimated Existing Sediment Elevation = 6511+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6517.03 Primary Drain Elevation = 6514.3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 10/24/05

P.E. Number & State: 187727 Utah

REGISTERED PROFESSIONAL ENGINEER #187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		East Slurry Cell	
Permit Number	ACT/007/035	**Report Date** 10/14/05	
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	September 20, 2005
Inspected By	Scott Carlson
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Third Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 27+- acre-feet Maximum Sediment Depth Elevation = N/A Estimated Existing Sediment Elevation = N/A
	3. Principle and emergency spillway elevations. N/A

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond and coal fine storage. No structural or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Scott Carlson **Date:** 10/14/05

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 10/11/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Coarse Refuse Pile
Permit Number	ACT/007/035	**Report Date 10/14/05**
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	September 20, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Third Quarter Inspection 2005
		Attachments to Report? ☐ No X 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

   Removal of Coarse and fine Refuse Material Only

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Coarse Refuse Pile

5. **Final grading and revegetation of fill.**

N/A

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

No smokers visible

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.**

Waste Coal Removal

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 10/14/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

Coarse Refuse Pile - Looking Northwesterly September 20, 2005

Coarse Refuse Pile - Looking Northerly September 20, 2005

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #1
Permit Number	ACT/007/035	**Report Date 10/14/05**
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	September 20, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Third Quarter Inspection 2005
		Attachments to Report? X **No** ☐ **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.**

   Did not receive spoils material during this Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	

5. **Final grading and revegetation of fill.**

N/A

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

None

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.**

No Construction occurred during this quarter. Construction in previous quarters had been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 10/11/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #2
Permit Number	ACT/007/035	**Report Date 10/14/05**
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	September 20, 2005	
Inspected By	Scott Carlson	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Third Quarter Inspection 2005
		Attachments to Report? ☐ **No** X **Yes**

Field Evaluation

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

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

2. Placement of underdrains and protective filter systems.

Under-drains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and storm water rerouted to other impoundments.

3. Installation of final surface drainage systems.

N/A

4. Placement and compaction of fill materials.

Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan.

Approximately 7,401 tons of material were placed during the Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #2	

5. Final grading and revegetation of fill.

N/A

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

None

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 Pond #1 and Slurry Pond #2 were approved for and have been filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2. A pile is being constructed on top of the filled ponds with gentle slopes in accordance with the currently approved plan. See attached photos.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

In accordance with the approved plan, SCA has begun removing the coal fines lining the old slurry ditch along the east side of this pile. These materials are being used in the power plant. Removal of these materials facilitates the construction of the east access road and drainage ditch shown on the approved plan.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 10/24/05

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

Excess Spoil Disposal Area #2 North End looking westerly September 20, 2005

APPENDIX A
CERTIFIED REPORTS

FOURTH QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Clear Water Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Clear Water Pond	
	Impoundment Number	004	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.9 acre-feet
Maximum Sediment Depth Elevation = 6527
Existing Sediment Elevation = 6523+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6530.1

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

4. 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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good

No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 was essentially empty.

No structure or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty [illegible] **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 11/20/06

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Railcut Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Railcut Sediment Pond	
	Impoundment Number	007	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.8 acre-feet
Maximum Sediment Depth Elevation = 6209
Estimated Existing Sediment Elevation = 6207+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6212.34
Primary Drain Elevation = 6209.07
Maximum Sediment Depth Elevation = 6209.07

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good,
no structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. Pond was essentially empty.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nelly **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		OCRR Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

4. **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 outslopes of embankments, etc.

No discharge, Pond was essentially empty. inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes, no structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Roty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S Scott **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER #187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Pasture Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Pasture Sediment Pond	
	Impoundment Number	009	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.0 acre-feet Maximum Sediment Depth Elevation = 6485.5 Estimated Existing Sediment Elevation = 6484+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6490.6 Primary Drain Elevation = 6486.6

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

4. **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 outslopes of embankments, etc.

Pond had some water in the bottom.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Roty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 11/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		CRT Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND

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

Storage Capacity = 1.6 acre-feet
Maximum Sediment Depth Elevation = 6177.0
Estimated Existing Sediment Elevation = 6176+-

3. **Principle and emergency spillway elevations.**

Spillway Elevation = 6183.63
Primary Drain Elevation = 6178.2

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nety **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S Scott Carlson **Date:** 12/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		COAL RUNOFF POND	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Coal Runoff Sediment Pond	
	Impoundment Number	014	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6475±
	3. **Principle and emergency spillway elevations.** Spillway Elevation = 6477.9 Emergency Spillway Elevation = 6479.0

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nety **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 12/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Borrow Area Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Borrow Area Pond	
	Impoundment Number	016	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND

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

Storage Capacity = 8.3 acre-feet
Maximum Sediment Depth Elevation = 6513.3
Estimated Existing Sediment Elevation = 6511+-

3. **Principle and emergency spillway elevations.**

Spillway Elevation = 6517.03
Primary Drain Elevation = 6514.3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Roty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S. Scott Carlson **Date:** 11/30/06

P.E. Number & State: 187727 Utah

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Fourth Quarter Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 27+- acre-feet Maximum Sediment Depth Elevation = N/A Estimated Existing Sediment Elevation = N/A
	3. **Principle and emergency spillway elevations.** N/A

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond and coal fine storage. No structural or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Roty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 12/2[illegible]/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Coarse Refuse Pile
Permit Number	ACT/007/035	**Report Date 1/20/06**
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	December 14, 2005	
Inspected By	Rusty Netz	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Fourth Quarter Inspection 2005
		Attachments to Report? ☐ No **X** 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

   Removal of Coarse and fine Refuse Material Only

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Coarse Refuse Pile

5. **Final grading and revegetation of fill.**

N/A

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

No smokers visible

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.**

Waste Coal Removal

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: [signature] **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

SCA Sunnyside Coarse Refuse Pile – Looking to the west Dec 14, 2005

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #1	
Permit Number	ACT/007/035	**Report Date 1/20/06**	
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	December 14, 2005		
Inspected By	Rusty Netz		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Fourth Quarter Inspection 2005	
		Attachments to Report? X No ☐ 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.**

   Did not receive spoils material during this Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	

5. **Final grading and revegetation of fill.**

N/A

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

None

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.**

No Construction occurred during this quarter. Construction in previous quarters had been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #2	
Permit Number	ACT/007/035	**Report Date 1/20/06**	
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	December 14, 2005		
Inspected By	Rusty Netz		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Fourth Quarter Inspection 2005	
		Attachments to Report? ☐ No **X** Yes	

Field Evaluation

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

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

2. **Placement of underdrains and protective filter systems.**

Under-drains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and storm water rerouted to other impoundments.

3. **Installation of final surface drainage systems.**

N/A

4. **Placement and compaction of fill materials.**

Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan.

Approximately 16,116 tons of material were placed during the Quarter.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #2	

5. Final grading and revegetation of fill.

N/A

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

None

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 Pond #1 and Slurry Pond #2 were approved for and have been filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2. A pile is being constructed on top of the filled ponds with gentle slopes in accordance with the currently approved plan. See attached photos.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

In accordance with the approved plan, SCA has begun removing the coal fines lining the old slurry ditch along the east side of this pile. These materials are being used in the power plant. Removal of these materials facilitates the construction of the east access road and drainage ditch shown on the approved plan.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

Excess Spoil Disposal Area #2 North End looking westerly Dec 14, 2005

APPENDIX A
CERTIFIED REPORTS

ANNUAL INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Clear Water Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Clear Water Pond	
	Impoundment Number	004	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.9 acre-feet
Maximum Sediment Depth Elevation = 6527
Existing Sediment Elevation = 6523+-

3. **Principle and emergency spillway elevations.**

Spillway Elevation = 6530.1

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

4. 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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good

No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 was essentially empty.

No structure or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Ney **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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.

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

By: S. Scott Carlson, Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 UT

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Railcut Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Railcut Sediment Pond	
	Impoundment Number	007	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND.

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

Storage Capacity = 4.8 acre-feet
Maximum Sediment Depth Elevation = 6209
Estimated Existing Sediment Elevation = 6207+-

3. Principle and emergency spillway elevations.

Spillway Elevation = 6212.34
Primary Drain Elevation = 6209.07
Maximum Sediment Depth Elevation = 6209.07

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

4. **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 outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good,
no structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. Pond was essentially empty.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nety **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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.

REGISTERED PROFESSIONAL ENGINEER
S. SCOTT CARLSON
187727
STATE OF UTAH

By: S. Scott Carlson, P.E. Senior Project Manager

Signature: _____ **Date:** 1/20/06

P.E. Number & State: 187727 - UT

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		OCRR Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-
	3. **Principle and emergency spillway elevations.** Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

4. 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 outslopes of embankments, etc.

No discharge, Pond was essentially empty. inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes, no structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Raty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: _____ **Date:** 1/20/06

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Pasture Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Pasture Sediment Pond	
	Impoundment Number	009	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.0 acre-feet Maximum Sediment Depth Elevation = 6485.5 Estimated Existing Sediment Elevation = 6484+-
	3. **Principle and emergency spillway elevations.** Spillway Elevation = 6490.6 Primary Drain Elevation = 6486.6

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

4. **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 outslopes of embankments, etc.

Pond had some water in the bottom.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nety **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Pasture Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		CRT Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	**2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.6 acre-feet Maximum Sediment Depth Elevation = 6177.0 Estimated Existing Sediment Elevation = 6176+-
	3. Principle and emergency spillway elevations. Spillway Elevation = 6183.63 Primary Drain Elevation = 6178.2

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes. No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Ady **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager

Signature: S. Scott Carlson **Date:** 12/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT
CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		COAL RUNOFF POND	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Coal Runoff Sediment Pond	
	Impoundment Number	014	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6475±
	3. **Principle and emergency spillway elevations.** Spillway Elevation = 6477.9 Emergency Spillway Elevation = 6479.0

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

4. **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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Nety **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Borrow Area Pond	
Permit Number	ACT/007/035	**Report Date** 1/20/06	
Mine Name	SUNNYSIDE REFUSE AND SLURRY		
Company Name	SUNNYSIDE COGENERATION ASSOCIATES		
Impoundment Identification	**Impoundment Name**	Borrow Area Pond	
	Impoundment Number	016	
	UPDES Permit Number	UT 024759	
	MSHA ID Number	N/A	

IMPOUNDMENT INSPECTION

Inspection Date	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 8.3 acre-feet Maximum Sediment Depth Elevation = 6513.3 Estimated Existing Sediment Elevation = 6511+-
	3. **Principle and emergency spillway elevations.** Spillway Elevation = 6517.03 Primary Drain Elevation = 6514.3

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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 changes.
No structure or stability problems observed.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Roty **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Borrow Area Pond	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND 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 design and meet or exceed 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, P.E. Senior Project Manager

Signature: S Scott C Date: 1/30/06

P.E. Number & State: 187727 Utah

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
STATE OF UTAH

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

Permit Number	ACT/007/035	**Report Date** 1/20/06	
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	December 14, 2005
Inspected By	Rusty Netz
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005

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

NONE

Required for an impoundment which functions as a SEDIMENTATION POND	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.** Storage Capacity = 27+- acre-feet Maximum Sediment Depth Elevation = N/A Estimated Existing Sediment Elevation = N/A
	3. **Principle and emergency spillway elevations.** N/A

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

4. 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 outslopes of embankments, etc.

Pond was essentially empty.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations 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.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond and coal fine storage. No structural or stability problems observed.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed either directly to the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the storm flows without the Slurry Ponds in series.

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 design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: Rusty Ady **Date:** 1/20/06

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	East Slurry Cell	

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
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 condition?	yes	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	

COMMENTS AND OTHER INFORMATION

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 design and meet or exceed 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 - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 1/2070

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Coarse Refuse Pile
Permit Number	ACT/007/035	**Report Date 1/20/06**
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	December 14, 2005	
Inspected By	Rusty Netz	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Annual Inspection 2005
		Attachments to Report? ☐ No **X** 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

   Removal of Coarse and fine Refuse Material Only

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Coarse Refuse Pile

5. Final grading and revegetation of fill.

N/A

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

No smokers visible

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.

Waste Coal Removal

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

SCA Sunnyside Coarse Refuse Pile – Looking to the west Dec 14, 2005

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	
Permit Number	ACT/007/035	**Report Date 1/20/06**
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	December 14, 2005	
Inspected By	Rusty Netz	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual Inspection 2005	
	Attachments to Report? X No ☐ 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.**

   Did not receive spoils material during this year.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1	

5. Final grading and revegetation of fill.

N/A

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

None

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.

No Construction occurred during this year. Construction in previous years had been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE		Excess Spoil Pile #2	
Permit Number	ACT/007/035	**Report Date 1/20/06**	
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	December 14, 2005		
Inspected By	Rusty Netz		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Annual Inspection 2005	
		Attachments to Report? ☐ **No** **X Yes**	

Field Evaluation

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

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

2. **Placement of underdrains and protective filter systems.**

Under-drains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and storm water rerouted to other impoundments.

3. **Installation of final surface drainage systems.**

N/A

4. **Placement and compaction of fill materials.**

Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan.

Approximately 41,575 tons of material were placed during the Year.

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #2	

5. **Final grading and revegetation of fill.**

N/A

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

None

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 Pond #1 and Slurry Pond #2 were approved for and have been filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2. A pile is being constructed on top of the filled ponds with gentle slopes in accordance with the currently approved plan. See attached photos.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

In accordance with the approved plan, SCA has begun removing the coal fines lining the old slurry ditch along the east side of this pile. These materials are being used in the power plant. Removal of these materials facilitates the construction of the east access road and drainage ditch shown on the approved plan.

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 approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Senior Project Manager
(Full Name and Title)

Signature: S. Scott Carlson **Date:** 1/20/06

P.E. Number & State: 187727 - UT

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON STATE OF UTAH

Excess Spoil Disposal Area #2 Looking South March 25, 2005

Excess Spoil Area #2 Looking south along the old slurry ditch March 25, 2005

Excess Spoil Disposal Area #2 looking south June 22, 2005

Exposed Wall along east side of Excess Spoil Disposal Area #2 June 22, 2005

Excess Spoil Disposal Area #2 North End looking westerly September 20, 2005

Excess Spoil Disposal Area #2 North End looking westerly Dec 14, 2005

Excess Spoil Disposal Area #2 North End looking westerly Dec 14, 2005

APPENDIX B-1
CLIMATOLOGICAL DATA

SUNNYSIDE WEATHER STATION
2005 CLIMATOLOGICAL REPORT

	Jan			Feb			Mar			Apr			May			June		
day	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip
1	37	26	0.2	41	23	tr	47	24		51	24		51	37	0.15	72	48	
2	36	24		40	23		47	30		59	30		58	37		73	42	0.3
3	34	27	0.05	42	25		49	29		64	38		60	39		52	40	1.13
4	38	29		45	25		47	32		62	46		64	37		62	38	
5	39	26	0.4	43	23		51	31		55	22		68	45		72	43	0.1
6	39	20	0.04	40	24	tr	56	32		60	32		69	42	0.18	72	56	
7	28	8		34	11	0.4	60	33		65	37		54	35		71	43	
8	35	20	0.3	36	15		59	34		64	39		63	36		68	39	
9	40	34	0.45	37	18		63	34		46	31		67	41	tr	69	46	
10	43	36		41	26		62	32		47	25	0.14	66	48		62	45	
11	42	33	0.43	36	29		59	34		53	26		50	32	0.05	61	41	
12	35	18	0.32	41	24	0.6	61	30		58	31		54	35	0.1	58	40	1.1
13	35	14		43	29		40	24		64	36		66	34		69	39	
14	35	18		44	29		35	16		62	34		68	44		74	45	
15	37	24		40	38		40			62	37		73	44		80	54	
16	41	27		39	22					68	39		74	50		78	54	
17	43	28		39	26		47	31		71	41		68	36		80	54	
18	47	32		35	29		47	27		70	40		70	41		80	60	
19	49	33		43	31	0.25	45	30		62	42		79	48		83	51	
20	49	31		42	27	0.15	48	25	0.4	56	60		83	50		85	56	
21	50	33		41	32		48	26		55	60		85	55		90	62	
22	50	31		39	30	0.35	48	26		57	37		84	54		87	60	0.18
23	48	30		41	26		44	32	0.28	67	38		85	55		77	52	0.2
24	47	28		46	25		42	30		67	40	0.7	84	55		77	51	
25	45	31		45	30		42	30		55	40		79	43		74	50	0.32
26	41	32		43	26		47	21	0.18	62	37	0.15	78	48		77	49	
27	37	29	0.48	48	24		50	26		63	40		78	54		80	49	
28	40	32		48	27		52	35		58	38		76	51	0.26	80	57	0.06
29	42	28	0.18				46	26		52	33		76	51		74	48	
30	43	27					40	24		53	31		70	49		80	51	
31	41	24					43	18										
Total	1266	833	2.85	1152	717	1.75	1465	822	0.86	1788	1104	0.99	2100	1326	0.74	2217	1463	3.39
AVG	40.84	26.87		41.14	25.61		48.83	28.34		59.60	36.80		70.00	44.20		73.90	48.77	
AVG DAILY	33.85			33.38			38.59			48.20			57.10			61.33		

temperature in °F
precipitation in inches

SUNNYSIDE WEATHER STATION
2005 CLIMATOLOGICAL REPORT

	July			Aug			Sept			Oct			Nov			Dec		
day	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip	max temp	min temp	precip
1	89	58		85	65		80	50		71	47		53	33		29	20	
2	88	58		80	57	0.15	81	56		73	49		46	47		29	28	
3	84	56		79	56		81	56		71	58		57	39		26	22	
4	84	63		79	57		76	51		69	44	0.38	55	38		27	12	
5	88	63		81	57		79	52		53	30		50	30		26	6	
6	88	61		83	56	0.48	80	57	0.04	58	35		52	32		32	13	
7	88	59		85	58		82	55		61	38		55	38		28	6	
8	88	58		82	57	0.19	81	59	0.3	67	40		56	44		22	2	
9	89	60		82	57	0.32	67	53		52	35		56	42		27	6	
10	87	59		73	58	0.12	70	43	0.6	52	40		57	43		36	10	
11	90	60		80	54		72	58		55	36		53	35	0.35	38	20	
12	93	66		80	53		72	53		60	38		49	35		38	20	
13	94	66		79	55		66	44		62	39		48	31		40	22	tr
14	95	68		79	53	0.48	68	48		66	42		49	34		37	10	
15	93	67		80	55	0.1	69	41		67	42		42	20		30	12	
16	95	64		71	55	0.35	71	47		65	44		40	21		29	14	
17	94	65		75	49		72	43		65	43		49	29		28	14	
18	90	54		79	52		71	47		62	45	0.35	45	25		32	18	
19	91	60		80	52		73	47		53	43		49	31		40	25	tr
20	95	65		77	56		79	51		57	40		50	29		46	30	
21	91	65		78	57	0.4	75	53	0.22	62	39		53	32		47	28	
22	92	65		80	55	0.1	68	45		63	42		50	33		45	29	
23	85	64		77	55		69	49		66	43		49	30		45	29	
24	83	61	0.2	80	52		72	56		66	44		48	28		50	33	
25	81	57	0.4	80	55		72	45		67	44		47	28		46	29	
26	81	52		82	56		74	45		64	40		41	28		40	26	0.35
27	83	54		82	57		74	49	0.4	62	41		34	13		40	26	
28	88	53		83	54		67	46	0.05	53	44	0.95	32	10		37	36	
29	89	61		84	56		60	46		51	35	0.45	29	18		37	36	tr
30	88	63		85	55		69	41		49	35		33	23		38	24	
31	86	65		77	48					49	29					37	21	
Total	2750	1890	0.6	2477	1712	2.69	2190	1486	1.61	1891	1264	2.13	1427	919	0.35	1102	627	0.35
AVG	88.71	60.97		79.90	55.23		73.00	49.53		61.00	40.77		47.57	30.63		35.55	20.23	
AVG DAILY	74.84			67.56			61.27			50.89			39.10			27.89		

AVERAGE HIGH TEMPERATURE	60.00
AVERAGE LOW TEMPERATURE	39.00
TOTAL PRECIPITATION FOR 2005	18.31
AVERAGE MONTHLY PRECIPITATION	1.53

APPENDIX B-2
VEGETATION MONITORING

VEGETATION MONITORING
AT THE
SUNNYSIDE COGENERATION FACILITY

2005

RECLAIMED OLD COARSE REFUSE ROAD
AND THE
ATRIPLEX/GRASS REFERENCE AREA

Prepared by

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Patrick D. Collins, Ph.D.

for

SUNNYSIDE COGENERATION ASSOCIATES
#1 Power Plant Road
Sunnyside, Utah 84539

March 2006

TABLE OF CONTENTS

INTRODUCTION 1

METHODS 2

- Cover 3
- Density 3
- Sample Adequacy 3
- Diversity 4
- Photographs 5
- Raw Data 5

RESULTS 5

- Reclaimed Road 5
- Reference Area 6
- Comparison Between Areas 6

DISCUSSION 7

SUMMARY TABLES 9-15

PHOTOGRAPHS 16-17

RAW DATA . . . . . Appendix

VEGETATION MONITORING
AT THE
SUNNYSIDE COGENERATION FACILITY
2005

INTRODUCTION

An old road has been reclaimed and seeded on the south end of the refuse pile at the Sunnyside Cogeneration Facility. To monitor the success of vegetation establishment, either quantitative or qualitative sampling of the revegetated road has been conducted during the growing seasons of 1996 through 2005. A reference area had been chosen at an earlier date to represent standards for revegetation success. This reference area was also sampled for comparisons during the same periods as the reclaimed road in some of those years.

The Reclaimed Old Coarse Refuse Road has been reclaimed long enough that the "Responsibility Period" has passed. This means that the time required for vegetation establishment on reclaimed land before an application for bond release can be initiated. Because of this the Sunnyside Cogeneration Facility could submit the application for Phase III Bond Release. Consequently, sampling in 2005 was conducted with this in mind. In other words, if sample adequacy and statistical analyses meet the required levels, this data set could potentially be used as "Year 1" of the two consecutive years of vegetation monitoring necessary to apply for bond release. Regardless, this document provides the monitoring results for the year 2005.

Like previous years' reports, a brief history may be helpful here. Sunnyside Cogeneration Associates reclaimed an existing road on the south side of an old coarse refuse pile in the summer and fall of 1994. The work entailed regrading the road and reshaping the cut-and-fill areas to approximate the contours of the surrounding slopes. A seed mixture of native plant species (or approved introduced) to the area was then planted. The plant species used in the reclamation seed mixture are shown below.

PLANT SPECIES SEEDED
SHRUBS Four-wing saltbush (*Atriplex canescens*) Shadscale (*Atriplex confertifolia*) Winterfat (*Ceratoides lanata*) Gardner saltbush (*Atriplex gardneri*)
FORBS Lewis Flax (*Linum lewisii*) Yellow sweetclover (*Melilotus officinalis*) Globemallow (*Sphaeralcea grossulariifolia*)
GRASSES Thickspike wheatgrass (*Elymus lanceolatus*) Western wheatgrass (*Elymus smithii*) Needle-and-thread (*Stipa comata*) Indian ricegrass (*Stipa hymenoides*) Squirreltail (*Sitanion hystrix*) Slender wheatgrass (*Elymus trachycaulus*)

METHODS

Sampling methods have remained consistent for all monitoring years. For this report, the reclaimed Old Coarse Refuse Road and Atriplex/Grass Reference Area were sampled on July 26-27, 2005. Transect lines for sampling were randomly placed for the length of the reclaimed road to adequately represent the area as a whole. From these transect lines, sample locations were chosen using random numbers at right angles to them.

Cover

Cover estimates were made using ocular methods with meter square quadrats. Species composition and frequencies were also assessed from the quadrat data. The frequency values were assessed for each plant species and stated as the relative proportion of the number of times a given species was present in the quadrats. Plant nomenclature follows "A Utah Flora" (Welsh et al. 2003).

Density

Density estimates of woody plant species for the reclaimed road and reference area were made using a distance method called the point-quarter. In this method, random points were placed on the sample sites and measured into four quarters. The distances to the nearest woody plant species were then recorded in each quarter. The average point-to-individual distance was equal to the square root of the mean area per individual.

Sample Adequacy

Sample adequacy for cover and density was attempt with the goal that 90% of the samples were within 10% of the true mean for the plant communities in the area. The following formula was used:

$$nMIN = \frac{t^2 s^2}{(dx)^2}$$

where,

nMIN	= minimum adequate sample
t	= appropriate confidence t-value
s	= standard deviation
x	= sample mean
d	= desired change from mean

Diversity

Three diversity indices have been reported in this document for the reclaimed area and the reference area. To begin, **MacArthur's Diversity Index** was calculated. This index is an effective diversity measurement and is computed using the equation $1/\sum pi^2$ (MacArthur and Wilson 1976, *The Theory of Island Biogeography,* Princeton: Princeton University Press). In this equation *pi* is the proportion of sum frequency contributed by the *i*th species in the sample area of concern. The proportional contribution of each species is then squared and the values for all species in the sample areas are summed. This index integrates the number of species and the degree to which frequency of occurrence was equitably distributed among those species. In other words, this index provides greater weight to those species that are present more often (with greater frequency) than those that are merely "present" in one or two quadrats. The **average number of species** per sample quadrat is another measure of species diversity provided from the data in this report. Finally, the *total number of species present* in the sample quadrats, or "**richness**", was calculated for the sample areas.

Photographs

Color photographs were taken of the sample areas and are included in this report. All sample means, standard deviations, and raw data were also included in this report.

Raw Data

The raw cover, composition, and frequency data have been summarized on spreadsheets and have been included in the Appendix.

RESULTS

Reclaimed Road

The total living cover of the reclaimed Old Coarse Refuse Road in 2005 was 57.80% (Table 1-A). Of the living cover, 52.36% of it was comprised of grasses, 43.24% were shrubs, and 4.40% were forbs (Table 1-B). The dominant plant species in the total living cover (Table 2) were cheatgrass (*Bromus tectorum*), fourwing saltbush (*Atriplex canescens*), and shadscale (*A. confertifolia*).

The total woody species density for the reclaimed road was estimated at 3,283 plants per acre (Table 3). The most common shrubs in this measure were fourwing saltbush, winterfat (*Ceratoides lanata*), and shadscale.

Reference Area

The total living cover for the Atriplex/Grass reference area was 38.75% (Table 4-A). Grasses dominated the living cover in the reference area comprising 63.79%; shrubs comprised 27.71% and forb 8.50% (Table 4-B). The dominant plants by cover and frequency for the reference area were Salina wildrye (Elymus salinus), cheatgrass, and shadscale (Table 5).

The total woody species density for the area was estimated at 1,461 plants per acre (Table 6) and was dominated by shadscale, Gardner saltbush (*Atriplex gardneri*), and broom snakeweed (*Gutierrezia sarothrae*).

Comparisons Between Areas

Statistical analyses using Student's t-tests were employed to compare the total living cover and woody species density of the reclaimed road with the reference area. This comparison analysis is often used when applying for Phase III Bond Release. For total living cover and woody species density, Student's t-tests suggested that the reclaimed road was significantly greater than the reference area (Table 7).

Diversity of the reclaimed road was also compared with the reference area (Fig. 1). MacArthur's Index suggested the reclaimed road was slightly more diverse than the reference area. However, the mean number of species per sample quadrat was slightly greater in the reference area. For richness, the reclaimed road came out greater than the reference area.

FIG. 1. Diversity in the Sunnyside Cogeneration Area (2005)

A.
MacArthur's Index ($1/\sum pi^2$) =
Reclaimed Road: 6.008
Reference Area: 5.570

B.
Average No. Species/Quadrat =
Reclaimed Road: 3.14
Reference Area: 3.28

C.
Richness =
Reclaimed Road: 18.0
Reference Area: 14.0

DISCUSSION

The data sets in 2005 for the Sunnyside Cogeneration Facility and comparisons between them could potentially be used for "Year 1" of the two consecutive years required for monitoring vegetation for Phase III Bond Release. One problem with this scenario is that, although requirements were met for the total living cover, the sample adequacy requirements for final bond release (@ 90% ± 0.10) were not quite achieved in the density measurements. The sample adequacy for the woody species density for the reclaimed road was 84 samples (nMIN=84). Density samples recorded on the reclaimed road was 70 (n=70). Sample adequacy for density in the reference area was 101 (nMIN=101). The number of density samples taken here was 80 (n=80).

The cover, density, and diversity results suggest that monitoring for Phase III Bond Release may be warranted since the reclaimed Old Coarse Refuse Road met or exceeded these parameters when compared to the Atriplex/Grass reference area. Even though the 2005 vegetation monitoring results showed favorable revegetation success for the reclaimed areas, sample adequacy was not quite met. Therefore, vegetation monitoring for final bond release will begin in the growing season of 2006.

TABLE 1: Total cover and composition summary for the reclaimed Old Coarse Refuse Road at the Sunnyside Cogeneration Facility (2005).

A. TOTAL COVER	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZE
Living Cover	57.80	13.42	50
Litter	8.90	4.50	50
Bareground	15.70	9.59	50
Rock	17.60	10.16	50
B. COMPOSITION			
Shrubs	43.24	26.15	50
Forbs	4.40	8.65	50
Grasses	52.36	24.10	50

TABLE 2: Species cover and frequency summary for the reclaimed Old Coarse Refuse Road at the Sunnyside Cogeneration Facility (2005).

SPECIES	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZE	RELATIVE FREQUENCY
TREES & SHRUBS				
Atriplex canescens	17.30	17.84	50	66.00
Atriplex confertifolia	5.74	10.86	50	28.00
Atriplex corrugata	0.20	0.98	50	4.00
Atriplex gardneri	0.44	2.30	50	4.00
Ceratoides lanata	2.76	7.59	50	18.00
Chrysothamnus nauseosus	0.30	1.55	50	4.00
FORBS				
Halogeton glomeratus	0.10	0.70	50	2.00
Medicago sativa	0.74	2.54	50	8.00
Melilotus officinalis	0.10	0.70	50	2.00
Salsola pestifer	0.86	2.11	50	16.00
Sisymbrium altissimum	0.20	0.98	50	4.00
Sphaeralcea coccinea	0.20	0.98	50	4.00
GRASSES				
Bromus tectorum	22.26	13.14	50	96.00
Elymus lanceolatus	2.30	5.85	50	20.00
Elymus salinus	0.10	0.70	50	2.00
Elymus smithii	3.60	7.68	50	30.00
Hordeum jubatum	0.10	0.70	50	2.00
Stipa hymenoides	0.50	2.87	50	4.00

TABLE 3: Woody species densities of the reclaimed Old Coarse Refuse Road at the Sunnyside Cogeneration Facility (2005).

	NUMBER/ACRE
Atriplex canescens	1711.73
Atriplex confertifolia	586.21
Atriplex corrugata	93.79
Atriplex gardneri	140.69
Ceratoides lanata	609.66
Chrysothamnus nauseosus	105.52
Eriogonum corymbosum	11.72
Gutierrezia sarothrae	23.45
TOTAL	3282.78*

$\bar{x}$ = 3282.78*
s = 1833.91
n = 70
nMIN = 84.45

TABLE 4: Total cover and composition summary for the Atriplex/Grass Reference Area at the Sunnyside Cogeneration Facility (2005).

A. TOTAL COVER	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZE
Living Cover	38.75	11.28	40
Litter	12.63	5.48	40
Bareground	12.38	8.66	40
Rock	36.25	13.36	40
B. COMPOSITION			
Shrubs	27.71	26.73	40
Forbs	8.50	13.56	40
Grasses	63.79	28.19	40

TABLE 5: Species cover and frequency summary for the Atriplex/Grass Reference Area at the Sunnyside Cogeneration Facility (2005).

SPECIES	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZE	RELATIVE FREQUENCY
TREES & SHRUBS				
Atriplex confertifolia	9.15	12.24	40	50.00
Atriplex gardneri	0.50	2.45	40	5.00
Chrysothamnus nauseosus	0.88	5.46	40	2.50
Gutierrezia sarothrae	2.00	4.87	40	20.00
Juniperus osteosperma	0.03	0.16	40	2.50
FORBS				
Descurainia pinnata	0.45	1.34	40	12.50
Halogeton glomeratus	0.83	1.67	40	25.00
Kochia scoparia	0.05	0.31	40	2.50
Malcomia africana	0.05	0.31	40	2.50
Salsola pestifer	0.73	3.22	40	10.00
Sisymbrium altissimum	0.95	2.49	40	15.00
GRASSES				
Bromus tectorum	9.25	6.56	40	87.50
Elymus salinus	13.26	9.33	40	85.00
Stipa hymenoides	0.63	3.20	40	5.00

TABLE 6: Woody species densities of the Atriplex/Grass Reference Area at the Sunnyside Cogeneration Facility (2005).

	NUMBER/ACRE
Atriplex confertifolia	903.98
Atriplex gardneri	283.06
Chrysothamnus nauseosus	27.39
Eriogonum corymbosum	9.13
Gutierrezia sarothrae	228.28
Juniperus osteosperma	4.57
Opuntia polyacantha	4.57
TOTAL	1460.97*

$\bar{x}$ = 1460.97*
s = 894.43
n = 80
nMIN = 101.42

TABLE 7: Statistical summary sheet for the reclaimed road and reference areas at the Sunnyside Cogeneration Facility (2005).

RECLAIMED ROAD			
Total Living Cover	$\bar{x}$=57.80	s=13.42	n=50
Density	$\bar{x}$=3282.78	s=1833.91	n=70
REFERENCE AREA			
Total Living Cover	$\bar{x}$=38.75	s=11.28	n=40
Density	$\bar{x}$=1460.97	s=894.43	n=80
STATISTICAL ANALYSES			
Total Living Cover	t=7.175	df=88	SL=p<.001
Density	t=7.881	df=148	SL=p<.001

$\bar{x}$= sample mean, s = sample standard deviation, n = sample size,
NS = nonsignificant, t = Student's t-value, df = degrees of freedom,
SL = significance level, p = probability level

FIG 2: Reclaimed Road (1 of 2)

FIG 3: Reclaimed Road (2 of 2)

FIG 4: Reference Area (1 of 2)

FIG 5: Reference Area (2 of 2)

APPENDIX

(Raw Data)

SUNNYSIDE CO-GENERATION
Reclaimed Road
Exposure: Variable
Slope: Variable

Sample Date: 26-27 July 2005	1.00	2.00	3.00	4.00	5.00	6.00	7.00
TREES & SHRUBS							
Atriplex canescens	0.00	60.00	40.00	0.00	30.00	5.00	0.00
Atriplex confertifolia	0.00	0.00	0.00	0.00	0.00	0.00	5.00
Atriplex corrugata	0.00	0.00	0.00	0.00	0.00	5.00	0.00
Atriplex gardneri	0.00	0.00	0.00	15.00	0.00	0.00	0.00
Ceratoides lanata	15.00	0.00	0.00	0.00	0.00	0.00	0.00
Chrysothamnus nauseosus	10.00	0.00	0.00	0.00	0.00	0.00	0.00
FORBS							
Halogeton glomeratus	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Medicago sativa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Melilotus officinalis	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Salsola pestifer	0.00	0.00	0.00	0.00	5.00	0.00	5.00
Sisymbrium altissimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sphaeralcea coccinea	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRASSES							
Bromus tectorum	10.00	0.00	10.00	10.00	10.00	40.00	30.00
Elymus lanceolatus	0.00	0.00	10.00	0.00	0.00	5.00	0.00
Elymus salinas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Elymus smithii	0.00	10.00	0.00	0.00	0.00	5.00	0.00
Hordeum jubatum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stipa hymenoides	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVER							
Total Living Cover	35.00	70.00	60.00	25.00	45.00	60.00	40.00
Litter	15.00	20.00	10.00	5.00	10.00	10.00	10.00
Bareground	40.00	5.00	15.00	30.00	30.00	15.00	25.00
Rock	10.00	5.00	15.00	40.00	15.00	15.00	25.00
% COMPOSITION							
Shrubs	71.43	85.71	66.67	60.00	66.67	16.67	12.50
Forbs	0.00	0.00	0.00	0.00	11.11	0.00	12.50
Grasses	28.57	14.29	33.33	40.00	22.22	83.33	75.00

8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00
20.00	0.00	0.00	0.00	5.00	35.00	45.00	35.00	20.00	35.00
0.00	25.00	20.00	25.00	35.00	30.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.00	10.00	25.00	10.00	10.00	0.00	25.00	35.00	35.00	20.00
0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	15.00	0.00	10.00	0.00	0.00	0.00	5.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.00	60.00	65.00	65.00	60.00	65.00	70.00	70.00	60.00	65.00
20.00	15.00	15.00	15.00	5.00	10.00	5.00	10.00	10.00	10.00
5.00	15.00	10.00	10.00	15.00	10.00	5.00	15.00	15.00	10.00
10.00	10.00	10.00	10.00	20.00	15.00	20.00	5.00	15.00	15.00
30.77	41.67	30.77	84.62	66.67	100.00	64.29	50.00	33.33	61.54
15.38	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69
53.85	50.00	69.23	15.38	33.33	0.00	35.71	50.00	66.67	30.77

18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00
55.00	35.00	5.00	0.00	30.00	5.00	10.00	0.00	5.00	25.00
0.00	0.00	0.00	5.00	0.00	0.00	20.00	0.00	20.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	5.00	0.00	7.00	0.00	0.00
0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	5.00	0.00
0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	20.00	10.00	55.00	20.00	30.00	15.00	40.00	30.00	10.00
0.00	5.00	15.00	0.00	0.00	0.00	5.00	0.00	0.00	5.00
0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	15.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.00	80.00	35.00	65.00	55.00	40.00	50.00	55.00	65.00	55.00
5.00	10.00	10.00	5.00	25.00	10.00	10.00	10.00	10.00	5.00
5.00	5.00	50.00	10.00	10.00	15.00	25.00	15.00	15.00	20.00
15.00	5.00	5.00	20.00	10.00	35.00	15.00	20.00	10.00	20.00
73.33	56.25	14.29	7.69	54.55	12.50	60.00	9.09	38.46	45.45
0.00	0.00	0.00	7.69	9.09	12.50	0.00	18.18	7.69	0.00
26.67	43.75	85.71	84.62	36.36	75.00	40.00	72.73	53.85	54.55

28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00
5.00	35.00	0.00	0.00	20.00	0.00	20.00	0.00	20.00	30.00
0.00	0.00	35.00	35.00	0.00	0.00	5.00	0.00	0.00	20.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	5.00	10.00	0.00	0.00	15.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	5.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00
35.00	30.00	15.00	20.00	30.00	15.00	35.00	5.00	15.00	10.00
0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	5.00	0.00	0.00	0.00	40.00	5.00	10.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.00	70.00	60.00	70.00	50.00	30.00	75.00	45.00	45.00	70.00
10.00	5.00	10.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00
15.00	10.00	10.00	5.00	25.00	15.00	10.00	35.00	10.00	15.00
35.00	15.00	20.00	15.00	20.00	50.00	10.00	15.00	40.00	10.00
12.50	50.00	66.67	64.29	40.00	0.00	53.33	0.00	44.44	71.43
0.00	7.14	0.00	0.00	0.00	50.00	0.00	0.00	11.11	0.00
87.50	42.86	33.33	35.71	60.00	50.00	46.67	100.00	44.44	28.57

38.00	39.00	40.00	41.00	42.00	43.00	44.00	45.00	46.00	47.00
5.00	50.00	25.00	0.00	35.00	0.00	0.00	45.00	0.00	0.00
0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
5.00	0.00	8.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	25.00	35.00	5.00	30.00	3.00	20.00	25.00	45.00	55.00
30.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	5.00	0.00	30.00	10.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	75.00	75.00	65.00	65.00	40.00	35.00	70.00	50.00	55.00
10.00	5.00	5.00	5.00	10.00	5.00	5.00	5.00	10.00	10.00
35.00	5.00	10.00	15.00	15.00	20.00	20.00	10.00	15.00	15.00
5.00	15.00	10.00	15.00	10.00	35.00	40.00	15.00	25.00	20.00
20.00	66.67	53.33	61.54	53.85	17.50	0.00	64.29	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00
80.00	33.33	46.67	38.46	46.15	82.50	100.00	35.71	90.00	100.00

SUNNYSIDE CO-GENERATION
Reclaimed Road
Exposure: Variable
Slope: Variable
Sample Date: 26-27 July 2005

48.00	49.00	50.00	Mean	SDev	Freq	
						TREES & SHRUBS
10.00	45.00	20.00	17.30	17.84	66.00	*Atriplex canescens*
0.00	0.00	0.00	5.74	10.86	28.00	*Atriplex confertifolia*
0.00	0.00	0.00	0.20	0.98	4.00	*Atriplex corrugata*
0.00	0.00	0.00	0.44	2.30	4.00	*Atriplex gardneri*
0.00	0.00	0.00	2.76	7.59	18.00	*Ceratoides lanata*
0.00	0.00	0.00	0.30	1.55	4.00	*Chrysothamnus nauseosus*
						FORBS
0.00	0.00	5.00	0.10	0.70	2.00	*Halogeton glomeratus*
0.00	0.00	0.00	0.74	2.54	8.00	*Medicago sativa*
0.00	0.00	0.00	0.10	0.70	2.00	*Melilotus officinalis*
5.00	0.00	5.00	0.86	2.11	16.00	*Salsola pestifer*
0.00	0.00	5.00	0.20	0.98	4.00	*Sisymbrium altissimum*
0.00	0.00	0.00	0.20	0.98	4.00	*Sphaeralcea coccinea*
						GRASSES
25.00	30.00	30.00	22.26	13.14	96.00	*Bromus tectorum*
0.00	0.00	0.00	2.30	5.85	20.00	*Elymus lanceolatus*
0.00	0.00	0.00	0.10	0.70	2.00	*Elymus salinas*
0.00	0.00	0.00	3.60	7.68	30.00	*Elymus smithii*
0.00	0.00	0.00	0.10	0.70	2.00	*Hordeum jubatum*
20.00	0.00	0.00	0.50	2.87	4.00	*Stipa hymenoides*
						COVER
60.00	75.00	65.00	57.80	13.42		Total Living Cover
5.00	5.00	5.00	8.90	4.50		Litter
20.00	5.00	10.00	15.70	9.59		Bareground
15.00	15.00	20.00	17.60	10.16		Rock
						% COMPOSITION
16.67	60.00	30.77	43.24	26.15		Shrubs
8.33	0.00	23.08	4.40	8.65		Forbs
75.00	40.00	46.15	52.36	24.10		Grasses

SUNNYSIDE CO-GENERATION
Atriplex Reference Area
Exposure: S & SE
Slope: 37 deg

Sample Date: 26-27 July 2005	1.00	2.00	3.00	4.00	5.00	6.00	7.00
TREES & SHRUBS							
Atriplex confertifolia	0.00	0.00	25.00	5.00	20.00	5.00	7.00
Atriplex gardneri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chrysothamnus nauseosus	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gutierrezia sarothrae	0.00	0.00	0.00	0.00	0.00	25.00	0.00
Juniperus osteosperma	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FORBS							
Descurainia pinnata	0.00	0.00	0.00	0.00	5.00	0.00	2.00
Halogeton glomeratus	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Kochia scoparia	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Malcomia africana	0.00	0.00	0.00	2.00	0.00	0.00	0.00
Salsola pestifer	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Sisymbrium altissimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRASSES							
Bromus tectorum	12.00	4.00	10.00	8.00	10.00	5.00	1.00
Elymus salinas	13.00	15.00	4.00	20.00	10.00	5.00	35.00
Stipa hymenoides	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COVER							
Total Living Cover	25.00	20.00	40.00	35.00	45.00	40.00	45.00
Litter	10.00	5.00	15.00	5.00	15.00	5.00	10.00
Bareground	5.00	20.00	15.00	5.00	10.00	10.00	5.00
Rock	60.00	55.00	30.00	55.00	30.00	45.00	40.00
% COMPOSITION							
Shrubs	0.00	0.00	62.50	14.29	44.44	75.00	15.56
Forbs	0.00	5.00	2.50	5.71	11.11	0.00	4.44
Grasses	100.00	95.00	35.00	80.00	44.44	25.00	80.00

8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	0.00	40.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	1.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00	10.00	10.00	5.00	10.00	10.00	5.00	5.00	10.00	15.00
14.00	20.00	30.00	25.00	20.00	10.00	10.00	20.00	30.00	10.00
0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00
20.00	35.00	45.00	35.00	30.00	25.00	50.00	50.00	40.00	65.00
5.00	10.00	10.00	25.00	10.00	5.00	20.00	10.00	15.00	10.00
20.00	10.00	10.00	10.00	15.00	5.00	5.00	5.00	15.00	5.00
55.00	45.00	35.00	30.00	45.00	65.00	25.00	35.00	30.00	20.00
0.00	0.00	0.00	0.00	0.00	0.00	70.00	50.00	0.00	61.54
10.00	14.29	11.11	14.29	0.00	0.00	0.00	0.00	0.00	0.00
90.00	85.71	88.89	85.71	100.00	100.00	30.00	50.00	100.00	38.46

18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00
0.00	4.00	40.00	35.00	15.00	0.00	15.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	10.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00
0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	5.00	0.00	5.00	0.00	0.00	0.00	2.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	5.00	0.00	10.00	0.00	0.00	0.00
35.00	20.00	15.00	10.00	15.00	10.00	15.00	5.00	10.00	8.00
5.00	0.00	0.00	0.00	15.00	20.00	10.00	0.00	30.00	25.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00
40.00	25.00	65.00	50.00	50.00	40.00	50.00	25.00	40.00	35.00
15.00	10.00	15.00	10.00	15.00	20.00	15.00	5.00	20.00	20.00
5.00	10.00	5.00	10.00	10.00	10.00	10.00	10.00	10.00	20.00
40.00	55.00	15.00	30.00	25.00	30.00	25.00	60.00	30.00	25.00
0.00	20.00	76.92	70.00	30.00	12.50	30.00	0.00	0.00	0.00
0.00	0.00	0.00	10.00	10.00	12.50	20.00	0.00	0.00	5.71
100.00	80.00	23.08	20.00	60.00	75.00	50.00	100.00	100.00	94.29

28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00
30.00	0.00	0.00	15.00	0.00	30.00	5.00	15.00	10.00	0.00
0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	15.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	3.00	7.00	0.00	10.00	10.00	10.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	2.00	0.00	5.00	0.00	0.00	0.00	0.00	5.00	0.00
0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00
0.00	0.00	0.00	0.00	3.00	0.00	10.00	5.00	0.00	5.00
0.00	15.00	8.00	15.00	15.00	10.00	0.00	5.00	0.00	15.00
0.00	5.00	20.00	5.00	0.00	15.00	20.00	15.00	15.00	10.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.00	25.00	35.00	40.00	35.00	65.00	45.00	40.00	35.00	45.00
10.00	10.00	10.00	15.00	15.00	10.00	15.00	20.00	5.00	20.00
30.00	25.00	5.00	5.00	10.00	10.00	15.00	10.00	20.00	10.00
25.00	40.00	50.00	40.00	40.00	15.00	25.00	30.00	40.00	25.00
85.71	12.00	20.00	37.50	42.86	61.54	33.33	37.50	28.57	33.33
14.29	8.00	0.00	12.50	14.29	0.00	22.22	12.50	28.57	11.11
0.00	80.00	80.00	50.00	42.86	38.46	44.44	50.00	42.86	55.56

SUNNYSIDE CO-GENERATION
Atriplex Reference Area
Exposure: S & SE
Slope: 37 deg
Sample Date: 26-27 July 2005

38.00	39.00	40.00	Mean	SDev	Freq	
						TREES & SHRUBS
10.00	0.00	15.00	9.15	12.24	50.00	*Atriplex confertifolia*
0.00	0.00	0.00	0.50	2.45	5.00	*Atriplex gardneri*
0.00	0.00	0.00	0.88	5.46	2.50	*Chrysothamnus nauseosus*
0.00	0.00	0.00	2.00	4.87	20.00	*Gutierrezia sarothrae*
0.00	0.00	0.00	0.03	0.16	2.50	*Juniperus osteosperma*
						FORBS
0.00	0.00	0.00	0.45	1.34	12.50	*Descurainia pinnata*
0.00	0.00	0.00	0.83	1.67	25.00	*Halogeton glomeratus*
0.00	0.00	0.00	0.05	0.31	2.50	*Kochia scoparia*
0.00	0.00	0.00	0.05	0.31	2.50	*Malcomia africana*
0.00	20.00	0.00	0.73	3.22	10.00	*Salsola pestifer*
0.00	0.00	0.00	0.95	2.49	15.00	*Sisymbrium altissimum*
						GRASSES
10.00	0.00	0.00	9.25	6.56	87.50	*Bromus tectorum*
10.00	5.00	15.00	13.28	9.33	85.00	*Elymus salinas*
0.00	0.00	0.00	0.63	3.20	5.00	*Stipa hymenoides*
						COVER
30.00	25.00	30.00	38.75	11.28		Total Living Cover
10.00	10.00	25.00	12.63	5.48		Litter
10.00	50.00	25.00	12.38	8.66		Bareground
50.00	15.00	20.00	36.25	13.36		Rock
						% COMPOSITION
33.33	0.00	50.00	27.71	26.73		Shrubs
0.00	80.00	0.00	8.50	13.56		Forbs
66.67	20.00	50.00	63.79	28.19		Grasses

Old Coarse Refuse Road Reclamation Area (looking northerly) June 2005

Old Coarse Refuse Road Reclamation Area (looking northerly) June 2005

South bank of East Slurry Cell (looking northerly) June 2005

Coarse Refuse Pile – North Face upper lifts revegetated June 2005

Appendix B-2 Revegetation Photos

East Bank of East Slurry Cell June 2005

East Bank of East Slurry Cell June 2005

Appendix B-2 Revegetation Photos

Borrow area and topsoil piles (looking East) June 2005

Borrow area and topsoil piles (looking Southeast) June 2005

Appendix B-2 Revegetation Photos

Railcut topsoil pile June 2005

Coarse Refuse Toe Topsoil Stockpile June 2005

Appendix B-2 Revegetation Photos

Storage Area topsoil pile June 2005

APPENDIX B-3
WATER MONITORING

APPENDIX B-3
WATER MONITORING

FIRST QUARTER

Sunnyside Cogeneration Associates

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

April 13, 2005

Division of Oil, Gas & Mining
STATE OF UTAH
1594 W. North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Att: Ms. Pam Grubaugh-Littig

Subject: Quarterly Sampling Report
Monitoring Period: January, February, March 2005
DOGM Operational Water Monitoring

Dear Pam:

This letter is to confirm that the quarterly baseline water sampling data and the UPDES DMR data, have been submitted to the DOGM EDI web site. The data is correct and ready to be processed.

Should you have any questions, please contact me at (435)888-4476.

Sincerely,

Agent For
Sunnyside Cogeneration Associates

Rusty Netz

Rusty Netz
Acting Plant Manager

c.c. Karl Houskeeper/Division of Oil, Gas & Mining
Plant File

TABLE 2

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: First Quarter 2005
Samples taken March 14, 2005

Monitoring Location	Location I.D.	Temp. (C)	pH (su)	SC (umhos)	Dissolved Oxygen (mg/l)	Flow Rate (gpm)	Flow method
Icelander Creek	ICE-1	NW	NW	NW	NW	NW	NW/F
Columbia Dugway Spring	F-2	10.1	7.52	1140	8.2	25	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	9.9	7.98	4850	8.3	15	2
Dragerton Well	Well-1	NW	NW	NW	NW	NW	4
Borehole B-6	B-6	NW	NW	NW	NW	NW	NW

Notes:
na - no flow
NW- no water present
NW/F- no water present frozen
nd - data is not available due to lack of discharge
1- Flow rates were measured using a weir.
2 - Flow rates were measured using a calibrated container and stopwatch method.
3 - Flow rates were measured using the floating debris method.

SGS

April 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled March 14, 2005

Date received March 15, 2005

RECEIVED 1200
SAMPLED 0900
FIELD MEASUREMENTS
FLOW 15 TEMP 9.9
COND 4850 pH 7.98
D.O. 8.3
pH AND D.O. EXPIRED WHEN RECIEVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27302

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	03-16-2005 1500 DI
Alkalinity, Bicarbonate	379	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1012 DI
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1012 DI
Alkalinity, Total	379	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1012 DI
Anions	83.6	----	meq/l	---------	04-01-2005 1350 SJ
Calcium, Total	469.00	0.03	mg/l	EPA 200.7	03-29-2005 1603 DI
Calcium, Dissolved	469.00	0.03	mg/l	EPA 200.7	03-22-2005 1648 BW
Cations	85.9	----	meq/l	---------	04-01-2005 1350 SJ
Chloride	140	1	mg/l	EPA 300.0	03-18-2005 1742 DI
Conductivity	6450	----	umhos/cm	SM2510-B	03-15-2005 1310 BW
Hardness, Total	2839	----	mg/l as $CaCO_3$	SM2340-B	04-01-2005 1350 SJ
Iron, Total	<0.05	0.050	mg/l	EPA 200.7	03-29-2005 1603 DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	03-22-2005 1648 BW
Magnesium, Total	405.00	0.01	mg/l	EPA 200.7	03-29-2005 1603 DI
Magnesium, Dissolved	405.00	0.01	mg/l	EPA 200.7	03-22-2005 1648 BW
Manganese, Total	0.016	0.002	mg/l	EPA 200.7	03-29-2005 1603 DI
Manganese, Dissolved	0.015	0.002	mg/l	EPA 200.7	03-22-2005 1648 BW
Oil & Grease	<2	2	mg/l	EPA 413.1	03-17-2005 0900 DI
Oxygen, Dissolved	17.37	----	mg/l	EPA 360.1	03-15-2005 1410 BW
pH	8.10	----	pH units	EPA 150.1	03-15-2005 1335 MS
Potassium, Total	32.80	0.14	mg/l	EPA 200.7	03-28-2005 1603 DI
Potassium, Dissolved	30.60	0.14	mg/l	EPA 200.7	03-22-2005 1648 BW
Sodium, Total	674.00	0.09	mg/l	EPA 200.7	03-29-2005 1603 DI
Sodium, Dissolved	653.00	0.09	mg/l	EPA 200.7	03-22-2005 1648 BW

WEBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS North America Inc. | Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

Member of the SGS Group

SGS

April 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled March 14, 2005

Date received March 15, 2005

RECEIVED 1200
SAMPLED 0900
FIELD MEASUREMENTS
FLOW 15 TEMP 9.9
COND 4850 pH 7.98
D.O. 8.3
pH AND D.O. EXPIRED WHEN RECIEVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27302

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	03-15-2005 1305 DI
Solids, Total Dissolved	5968	30	mg/l	EPA 160.1	03-17-2005 0800 BW
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	03-18-2005 1100 BW
Sulfate	3460	1	mg/l	EPA 300.0	03-18-2005 1742 DI
Turbidity	0.5	0.1	NTU	EPA 180.1	03-16-2005 0800 DI
Cation/Anion Balance	1.4	----	%		04-01-2005 1350 SJ

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

April 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled March 14, 2005

Date received March 15, 2005

RECEIVED 1200
SAMPLED 0930
FIELD MEASUREMENTS
FLOW 25 TEMP 10.1
COND 1140 pH 7.52
D.O. 8.2
pH AND D.O. EXPIRED WHEN RECIEVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27303

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	03-16-2005 1500 DI
Alkalinity, Bicarbonate	466	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1032 DI
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1032 DI
Alkalinity, Total	466	5	mg/l as $CaCO_3$	EPA 310.1	03-16-2005 1032 DI
Anions	25.8	----	meq/l	---------	04-01-2005 1350 SJ
Calcium, Total	121.00	0.03	mg/l	EPA 200.7	03-29-2005 1603 DI
Calcium, Dissolved	121.00	0.03	mg/l	EPA 200.7	03-22-2005 1648 BW
Cations	27.2	----	meq/l	---------	04-01-2005 1350 SJ
Chloride	42	1	mg/l	EPA 300.0	03-18-2005 1742 DI
Conductivity	2330	----	umhos/cm	SM2510-B	03-15-2005 1310 BW
Hardness, Total	846	----	mg/l as $CaCO_3$	SM2340-B	04-01-2005 1350 SJ
Iron, Total	0.22	0.050	mg/l	EPA 200.7	03-29-2005 1603 DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	03-22-2005 1648 BW
Magnesium, Total	132.00	0.01	mg/l	EPA 200.7	03-29-2005 1603 DI
Magnesium, Dissolved	132.00	0.01	mg/l	EPA 200.7	03-22-2005 1648 BW
Manganese, Total	0.031	0.002	mg/l	EPA 200.7	03-29-2005 1603 DI
Manganese, Dissolved	0.027	0.002	mg/l	EPA 200.7	03-22-2005 1648 BW
Oil & Grease	<2	2	mg/l	EPA 413.1	03-17-2005 0900 DI
Oxygen, Dissolved	17.71	----	mg/l	EPA 360.1	03-15-2005 1410 BW
pH	8.24	----	pH units	EPA 150.1	03-15-2005 1335 MS
Potassium, Total	3.89	0.14	mg/l	EPA 200.7	03-29-2005 1603 DI
Potassium, Dissolved	3.41	0.14	mg/l	EPA 200.7	03-22-2005 1648 BW
Sodium, Total	239.00	0.09	mg/l	EPA 200.7	03-29-2005 1603 DI
Sodium, Dissolved	234.00	0.09	mg/l	EPA 200.7	03-22-2005 1648 BW

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS North America Inc. | Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

SGS

April 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled March 14, 2005

Date received March 15, 2005

RECEIVED 1200
SAMPLED 0930
FIELD MEASUREMENTS
FLOW 25 TEMP 10.1
COND 1140 pH 7.52
D.O. 8.2
pH AND D.O. EXPIRED WHEN RECIEVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27303

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	03-15-2005 1305 DI
Solids, Total Dissolved	1609	30	mg/l	EPA 160.1	03-17-2005 0800 BW
Solids, Total Suspended	6	5	mg/l	EPA 160.2	03-18-2005 1100 BW
Sulfate	734	1	mg/l	EPA 300.0	03-18-2005 1742 DI
Turbidity	1.9	0.1	NTU	EPA 180.1	03-16-2005 0800 DI
Cation/Anion Balance	2.6	----	%		04-01-2005 1350 SJ

WEBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS North America Inc. | Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

Member of the SGS Group

APPENDIX B-3
WATER MONITORING

SECOND QUARTER

Sunnyside Cogeneration Associates

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

July 26, 2005

Division of Oil, Gas & Mining
STATE OF UTAH
1594 W. North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Att: Ms. Pam Grubaugh-Littig

Subject: Quarterly Sampling Report
Monitoring Period: April, May, June 2005
DOGM Operational Water Monitoring

Dear Pam:

This letter is to confirm that the quarterly baseline water sampling data and the UPDES DMR data, have been submitted to the DOGM EDI web site. The data is correct and ready to be processed.

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. Robert Escalante
Rusty Netz
Plant File

TABLE 2

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: second Quarter 2005
Samples taken June 14, 2005

Monitoring Location	Location I.D.	Temp. (C)	pH (su)	SC (umhos)	Dissolved Oxygen (mg/l)	Flow Rate (gpm)	Flow method
Icelander Creek	ICE-1	16.8	7.81	2310	7.9	2	2
Columbia Dugway Spring	F-2	16.4	8.05	2005	8.1	75	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	15	7.82	5020	8.1	35	2
Dragerton Well	Well-1	17.4	8.47	524	8.12	250	4
Borehole B-6	B-6	NW	NW	NW	NW	NW	NW

Notes:
na - no flow
NW- no water present
NW/F- no water present frozen
nd - data is not available due to lack of discharge
1- Flow rates were measured using a weir.
2 - Flow rates were measured using a calibrated container and stopwatch method.
3 - Flow rates were measured using the floating debris method.

SGS

June 28, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Net

Date sampled June 14, 2005

Date received June 16, 2005

RECEIVED 1100
SAMPLED NO TIME
FIELD MEASUREMENTS
FLOW 75 TEMP 16.4
COND 2005 pH 8.05
D.O. 8.1
NOTES:
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27520

Parameter	Result	MRL	Units		Method	Analyzed Date/Time/Analyst	
Alkalinity, Bicarbonate	481	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Alkalinity, Carbonate	<5	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Alkalinity, Total	481	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Anions	27.1	----	meq/l		---------	06-28-2005 1445	SJ
Calcium, Dissolved	119.00	0.03	mg/l		EPA 200.7	06-25-2005 1413	DI
Cations	27.4	----	meq/l		---------	06-28-2005 1445	SJ
Chloride	45	1	mg/l		EPA 300.0	06-20-2005 2015	BW
Hardness, Total	845	----	mg/l	as $CaCO_3$	SM2340-B	06-28-2005 1445	SJ
Iron, Total	0.29	0.050	mg/l		EPA 200.7	06-24-2005 1420	BW
Iron, Dissolved	0.08	0.030	mg/l		EPA 200.7	06-25-2005 1413	DI
Magnesium, Dissolved	133.00	0.01	mg/l		EPA 200.7	06-25-2005 1413	DI
Manganese, Total	0.030	0.002	mg/l		EPA 200.7	06-24-2005 1420	BW
Manganese, Dissolved	0.022	0.002	mg/l		EPA 200.7	06-25-2005 1413	DI
Oil & Grease	<2	2	mg/l		EPA 413.1	06-22-2005 0900	JJ
Potassium, Dissolved	4.68	0.14	mg/l		EPA 200.7	06-25-2005 1413	DI
Sodium, Dissolved	240.00	0.09	mg/l		EPA 200.7	06-25-2005 1413	DI
Solids, Settleable	<0.1	0.1	ml/l		EPA 160.5	06-16-2005 0830	BW
Solids, Total Dissolved	1601	30	mg/l		EPA 160.1	06-15-2005 1130	JJ
Solids, Total Suspended	<5	5	mg/l		EPA 160.2	06-15-2005 1130	JJ
Sulfate	779	1	mg/l		EPA 300.0	06-20-2005 1931	BW
Cation/Anion Balance	0.6	----	%			06-28-2005 1445	SJ

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

Member of the SGS Group

SGS

July 13, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:Well 1

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Net

Date sampled June 14, 2005

Date received June 16, 2005

RECEIVED 1100
SAMPLED NO TIME
FIELD MEASUREMENTS
FLOW 250 TEMP 17.4
COND 524 pH 8.47
D.O. 8.12
NOTES:
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27519

Parameter	Result	MRL	Units		Method	Analyzed Date/Time/Analyst
Alkalinity, Bicarbonate	237	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Alkalinity, Carbonate	6	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Alkalinity, Total	243	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Anions	6.2	----	meq/l		---------	07-12-2005 1230 SJ
Calcium, Dissolved	51.80	0.03	mg/l		EPA 200.7	07-08-2005 1411 DI
Cations	6.5	----	meq/l		---------	07-12-2005 1230 SJ
Chloride	2	1	mg/l		EPA 300.0	06-20-2005 2000 BW
Hardness, Total	268	----	mg/l	as $CaCO_3$	SM2340-B	07-12-2005 1230 SJ
Iron, Total	0.08	0.050	mg/l		EPA 200.7	06-24-2005 1420 BW
Iron, Dissolved	<0.03	0.030	mg/l		EPA 200.7	06-25-2005 1413 DI
Magnesium, Dissolved	33.70	0.01	mg/l		EPA 200.7	07-08-2005 1411 DI
Manganese, Total	0.009	0.002	mg/l		EPA 200.7	06-24-2005 1420 BW
Manganese, Dissolved	<0.002	0.002	mg/l		EPA 200.7	06-25-2005 1413 DI
Oil & Grease	<2	2	mg/l		EPA 413.1	06-22-2005 0900 JJ
Potassium, Dissolved	1.52	0.14	mg/l		EPA 200.7	06-25-2005 1413 DI
Sodium, Dissolved	24.70	0.09	mg/l		EPA 200.7	06-25-2005 1413 DI
Solids, Settleable	<0.1	0.1	ml/l		EPA 160.5	06-16-2005 0830 BW
Solids, Total Dissolved	324	30	mg/l		EPA 160.1	06-15-2005 1130 JJ
Solids, Total Suspended	<5	5	mg/l		EPA 160.2	06-15-2005 1130 JJ
Sulfate	60	1	mg/l		EPA 300.0	06-20-2005 1931 BW
Cation/Anion Balance	2.4	----	%			07-12-2005 1230 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

June 30, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:ICE-1

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Net

Date sampled June 14, 2005

Date received June 16, 2005

RECEIVED 1100
SAMPLED NO TIME
FIELD MEASUREMENTS
FLOW 2 TEMP 16.8
COND 2310 pH 7.81
D.O. 7.9
NOTES:
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27521

Parameter	Result	MRL	Units		Method	Analyzed Date/Time/Analyst
Alkalinity, Bicarbonate	419	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Alkalinity, Carbonate	<5	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Alkalinity, Total	419	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400 BW
Anions	31.5	----	meq/l		---------	06-30-2005 0720 SJ
Calcium, Dissolved	145.00	0.03	mg/l		EPA 200.7	06-28-2005 1316 DI
Cations	31.1	----	meq/l		---------	06-30-2005 0720 SJ
Chloride	56	1	mg/l		EPA 300.0	06-20-2005 2029 BW
Hardness, Total	951	----	mg/l	as $CaCO_3$	SM2340-B	06-30-2005 0720 SJ
Iron, Total	0.54	0.050	mg/l		EPA 200.7	06-24-2005 1420 BW
Iron, Dissolved	<0.03	0.030	mg/l		EPA 200.7	06-25-2005 1413 DI
Magnesium, Dissolved	143.00	0.01	mg/l		EPA 200.7	06-28-2005 1316 DI
Manganese, Total	0.008	0.002	mg/l		EPA 200.7	06-24-2005 1420 BW
Manganese, Dissolved	<0.002	0.002	mg/l		EPA 200.7	06-25-2005 1413 DI
Oil & Grease	<2	2	mg/l		EPA 413.1	06-22-2005 0900 JJ
Potassium, Dissolved	9.39	0.14	mg/l		EPA 200.7	06-25-2005 1413 DI
Sodium, Dissolved	273.00	0.09	mg/l		EPA 200.7	06-25-2005 1413 DI
Solids, Settleable	<0.1	0.1	ml/l		EPA 160.5	06-16-2005 0830 BW
Solids, Total Dissolved	1925	30	mg/l		EPA 160.1	06-15-2005 1130 JJ
Solids, Total Suspended	23	5	mg/l		EPA 160.2	06-15-2005 1130 JJ
Sulfate	1034	1	mg/l		EPA 300.0	06-22-2005 1658 DI
Cation/Anion Balance	-0.6	----	%			06-30-2005 0720 SJ

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

Member of the SGS Group

SGS

June 30, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Net

Date sampled June 14, 2005

Date received June 16, 2005

RECEIVED 1100
SAMPLED NO TIME
FIELD MEASUREMENTS
FLOW 35 TEMP 15.0
COND 5020 pH 7.82
D.O. 8.1
NOTES:
DIS.METALS
FILTERED @ LAB

Page 1 of 1

Analysis report no. 59-27522

Parameter	Result	MRL	Units		Method	Analyzed Date/Time/Analyst	
Alkalinity, Bicarbonate	370	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Alkalinity, Carbonate	<5	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Alkalinity, Total	370	5	mg/l	as $CaCO_3$	EPA 310.1	06-20-2005 1400	BW
Anions	89.0	----	meq/l		---------	06-30-2005 0720	SJ
Calcium, Dissolved	491.00	0.03	mg/l		EPA 200.7	06-28-2005 1316	DI
Cations	87.0	----	meq/l		---------	06-30-2005 0720	SJ
Chloride	126	1	mg/l		EPA 300.0	06-20-2005 2044	BW
Hardness, Total	2923	----	mg/l	as $CaCO_3$	SM2340-B	06-30-2005 0720	SJ
Iron, Total	0.20	0.050	mg/l		EPA 200.7	06-24-2005 1420	BW
Iron, Dissolved	<0.03	0.030	mg/l		EPA 200.7	06-25-2005 1413	DI
Magnesium, Dissolved	412.00	0.01	mg/l		EPA 200.7	06-28-2005 1316	DI
Manganese, Total	0.037	0.002	mg/l		EPA 200.7	06-24-2005 1420	BW
Manganese, Dissolved	0.005	0.002	mg/l		EPA 200.7	06-25-2005 1413	DI
Oil & Grease	<2	2	mg/l		EPA 413.1	06-22-2005 0900	JJ
Potassium, Dissolved	30.10	0.14	mg/l		EPA 200.7	06-25-2005 1413	DI
Sodium, Dissolved	641.00	0.09	mg/l		EPA 200.7	06-25-2005 1413	DI
Solids, Settleable	<0.1	0.1	ml/l		EPA 160.5	06-16-2005 0830	BW
Solids, Total Dissolved	5641	30	mg/l		EPA 160.1	06-15-2005 1130	JJ
Solids, Total Suspended	<5	5	mg/l		EPA 160.2	06-15-2005 1130	JJ
Sulfate	3750	1	mg/l		EPA 300.0	06-22-2005 1658	DI
Cation/Anion Balance	-1.1	----	%			06-30-2005 0720	SJ

MEMBER ACIL

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

Minerals Services Division
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APPENDIX B-3
WATER MONITORING

THIRD QUARTER

Sunnyside Cogeneration Associates

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

October 31, 2005

Division of Oil, Gas & Mining
STATE OF UTAH
1594 W. North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Att: Ms. Pam Grubaugh-Littig

Subject: Quarterly Sampling Report
Monitoring Period: July, August, September
DOGM Operational Water Monitoring

Dear Pam:

This letter is to confirm that the quarterly baseline water sampling data and the UPDES DMR data, have been submitted to the DOGM EDI web site. The data is correct and ready to be processed.

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. Robert Escalante
Rusty Netz
Plant File

TABLE 2

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: third Quarter 2005
Samples taken September 9, 2005

Monitoring Location	Location I.D.	Temp. (C)	pH (su)	SC (umhos)	Dissolved Oxygen (mg/l)	Flow Rate (gpm)	Flow method
Icelander Creek	ICE-1	17.1	8.37	1765	8.25	30	2
Columbia Dugway Spring	F-2	15.5	8.31	1625	8.1	60	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	15.3	7.99	5260	7.9	25	2
Dragerton Well	Well-1	18.1	7.78	1146	8.2	250	4
Borehole B-6	B-6	NW	NW	NW	NW	NW	NW

Notes:
na - no flow
NW- no water present
NW/F- no water present frozen
nd - data is not available due to lack of discharge
1- Flow rates were measured using a weir.
2 - Flow rates were measured using a calibrated container and stopwatch method.
3 - Flow rates were measured using the floating debris method.
4 - Flow rates were measured using a meter

SGS

October 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:ICE 1

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by R.N.

Date sampled September 8, 2005

Date received September 9, 2005

RECEIVED 1045
SAMPLED 1000
FIELD MEASUREMENTS
FLOW 30 TEMP 17.1
COND 1765 pH 8.37
D.O. 8.25
pH AND DO EXPIRED WHEN RECEIVED
DIS.METALS
FILTERED @ LAB

Page 1 of 1

Analysis report no. 59-27954

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst	
Alkalinity, Bicarbonate	457	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1435	BM
Alkalinity, Carbonate	17	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1435	BM
Alkalinity, Total	474	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1435	BM
Anions	20.9	----	meq/l	---------	10-04-2005 0800	SJ
Calcium, Dissolved	75.10	0.03	mg/l	EPA 200.7	09-13-2005 1312	JJ
Cations	21.9	----	meq/l	---------	10-04-2005 0800	SJ
Chloride	45	1	mg/l	EPA 300.0	09-13-2005 1123	JJ
Hardness, Total	603	----	mg/l as $CaCO_3$	SM2340-B	10-04-2005 0800	SJ
Iron, Total	0.08	0.050	mg/l	EPA 200.7	09-21-2005 1556	JJ
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	09-13-2005 1312	JJ
Magnesium, Dissolved	101.00	0.01	mg/l	EPA 200.7	09-13-2005 1312	JJ
Manganese, Total	0.026	0.002	mg/l	EPA 200.7	09-21-2005 1556	JJ
Manganese, Dissolved	0.016	0.002	mg/l	EPA 200.7	09-13-2005 1312	JJ
Oil & Grease	<2	2	mg/l	EPA 413.1	09-14-2005 0815	JJ
Oxygen, Dissolved	10.48	----	mg/l	EPA 360.1	09-09-2005 1110	BM
pH	8.35	----	pH units	EPA 150.1	09-09-2005 1050	BM
Potassium, Dissolved	5.89	0.14	mg/l	EPA 200.7	09-13-2005 1312	JJ
Sodium, Dissolved	222.00	0.09	mg/l	EPA 200.7	09-13-2005 1312	JJ
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	09-09-2005 1120	BM
Solids, Total Dissolved	1291	30	mg/l	EPA 160.1	09-13-2005 1000	BM
Solids, Total Suspended	5	5	mg/l	EPA 160.2	09-14-2005 1100	BM
Sulfate	486	1	mg/l	EPA 300.0	09-13-2005 1123	JJ
Turbidity	6.4	0.1	NTU	EPA 180.1	09-09-2005 1200	BM
Cation/Anion Balance	2.3	----	%		10-04-2005 0800	SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

October 25, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by R.N.

Date sampled September 8, 2005

Date received September 9, 2005

RECEIVED 1045
SAMPLED 0930
FIELD MEASUREMENTS
FLOW 25 TEMP 15.3
COND 5260 pH 7.99
D.O. 7.9
pH AND DO EXPIRED WHEN RECEIVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27956

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Alkalinity, Bicarbonate	357	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1454 BM
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1454 BM
Alkalinity, Total	357	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1454 BM
Anions	87.4	----	meq/l	---------	10-25-2005 1450 SJ
Calcium, Dissolved	438.00	0.03	mg/l	EPA 200.7	10-19-2005 1301 JJ
Cations	79.3	----	meq/l	---------	10-25-2005 1450 SJ
Chloride	119	1	mg/l	EPA 300.0	09-13-2005 1123 JJ
Hardness, Total	2652	----	mg/l as $CaCO_3$	SM2340-B	10-25-2005 1450 SJ
Iron, Total	0.19	0.050	mg/l	EPA 200.7	09-21-2005 1556 JJ
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	09-13-2005 1312 JJ
Magnesium, Dissolved	378.50	0.01	mg/l	EPA 200.7	10-19-2005 1301 JJ
Manganese, Total	0.097	0.002	mg/l	EPA 200.7	09-21-2005 1556 JJ
Manganese, Dissolved	0.005	0.002	mg/l	EPA 200.7	10-19-2005 1301 JJ
Oil & Grease	<2	2	mg/l	EPA 413.1	09-14-2005 0815 JJ
Oxygen, Dissolved	9.60	----	mg/l	EPA 360.1	09-09-2005 1110 BM
pH	7.90	----	pH units	EPA 150.1	09-09-2005 1050 BM
Potassium, Dissolved	26.80	0.14	mg/l	EPA 200.7	10-19-2005 1301 JJ
Sodium, Dissolved	590.00	0.09	mg/l	EPA 200.7	10-19-2005 1301 JJ
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	09-09-2005 1120 BM
Solids, Total Dissolved	5888	30	mg/l	EPA 160.1	09-13-2005 1000 BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	09-14-2005 1100 BM
Sulfate	3695	1	mg/l	EPA 300.0	10-22-2005 2333 DI
Turbidity	1.9	0.1	NTU	EPA 180.1	09-09-2005 1200 BM
Cation/Anion Balance	-4.8	----	%		10-25-2005 1450 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.us.sgs.com/minerals

Member of the SGS Group

SGS

October 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by R.N.

Date sampled September 8, 2005

Date received September 9, 2005

RECEIVED 1045
SAMPLED 0945
FIELD MEASUREMENTS
FLOW 60 TEMP 15.5
COND 1625 pH 8.31
D.O. 8.1
pH AND DO EXPIRED WHEN RECEIVED
DIS.METALS
FILTERED @ LAB

Page 1 of 1

Analysis report no. 59-27955

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst	
Alkalinity, Bicarbonate	465	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1446	BM
Alkalinity, Carbonate	27	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1446	BM
Alkalinity, Total	491	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1446	BM
Anions	20.0	----	meq/l	---------	10-04-2005 0800	SJ
Calcium, Dissolved	86.50	0.03	mg/l	EPA 200.7	09-13-2005 1312	JJ
Cations	19.7	----	meq/l	---------	10-04-2005 0800	SJ
Chloride	33	1	mg/l	EPA 300.0	09-13-2005 1123	JJ
Hardness, Total	588	----	mg/l as $CaCO_3$	SM2340-B	10-04-2005 0800	SJ
Iron, Total	0.20	0.050	mg/l	EPA 200.7	09-21-2005 1556	JJ
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	09-13-2005 1312	JJ
Magnesium, Dissolved	90.30	0.01	mg/l	EPA 200.7	09-13-2005 1312	JJ
Manganese, Total	0.018	0.002	mg/l	EPA 200.7	09-21-2005 1556	JJ
Manganese, Dissolved	0.006	0.002	mg/l	EPA 200.7	09-13-2005 1312	JJ
Oil & Grease	<2	2	mg/l	EPA 413.1	09-14-2005 0815	JJ
Oxygen, Dissolved	10.34	----	mg/l	EPA 360.1	09-09-2005 1110	BM
pH	8.20	----	pH units	EPA 150.1	09-09-2005 1050	BM
Potassium, Dissolved	3.27	0.14	mg/l	EPA 200.7	09-13-2005 1312	JJ
Sodium, Dissolved	182.00	0.09	mg/l	EPA 200.7	09-13-2005 1312	JJ
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	09-09-2005 1120	BM
Solids, Total Dissolved	1175	30	mg/l	EPA 160.1	09-13-2005 1000	BM
Solids, Total Suspended	7	5	mg/l	EPA 160.2	09-14-2005 1100	BM
Sulfate	444	1	mg/l	EPA 300.0	09-13-2005 1123	JJ
Turbidity	4.1	0.1	NTU	EPA 180.1	09-09-2005 1200	BM
Cation/Anion Balance	-0.7	----	%		10-04-2005 0800	SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

October 4, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:Well #1

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by R.N.

Date sampled September 8, 2005

Date received September 9, 2005

RECEIVED 1045
SAMPLED 0900
FIELD MEASUREMENTS
FLOW 250 TEMP 18.1
COND 1146 pH 7.78
D.O. 8.2
pH AND DO EXPIRED WHEN RECEIVED
DIS.METALS
FILTERED @ LAB

Analysis report no. 59-27953

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Alkalinity, Bicarbonate	410	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1425 BM
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1425 BM
Alkalinity, Total	410	5	mg/l as $CaCO_3$	EPA 310.1	09-12-2005 1425 BM
Anions	13.0	----	meq/l	---------	10-04-2005 0800 SJ
Calcium, Dissolved	68.50	0.03	mg/l	EPA 200.7	09-13-2005 1312 JJ
Cations	13.7	----	meq/l	---------	10-04-2005 0800 SJ
Chloride	19	1	mg/l	EPA 300.0	09-13-2005 1123 JJ
Hardness, Total	420	----	mg/l as $CaCO_3$	SM2340-B	10-04-2005 0800 SJ
Iron, Total	0.83	0.050	mg/l	EPA 200.7	09-21-2005 1556 JJ
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	09-13-2005 1312 JJ
Magnesium, Dissolved	60.50	0.01	mg/l	EPA 200.7	09-13-2005 1312 JJ
Manganese, Total	0.007	0.002	mg/l	EPA 200.7	09-21-2005 1556 JJ
Manganese, Dissolved	0.004	0.002	mg/l	EPA 200.7	09-13-2005 1312 JJ
Oil & Grease	<2	2	mg/l	EPA 413.1	09-14-2005 0815 JJ
Oxygen, Dissolved	9.77	----	mg/l	EPA 360.1	09-09-2005 1110 BM
pH	7.71	----	pH units	EPA 150.1	09-09-2005 1050 BM
Potassium, Dissolved	2.66	0.14	mg/l	EPA 200.7	09-13-2005 1312 JJ
Sodium, Dissolved	120.00	0.09	mg/l	EPA 200.7	09-13-2005 1312 JJ
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	09-09-2005 1120 BM
Solids, Total Dissolved	740	30	mg/l	EPA 160.1	09-13-2005 1000 BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	09-14-2005 1100 BM
Sulfate	203	1	mg/l	EPA 300.0	09-13-2005 1123 JJ
Turbidity	13.3	0.1	NTU	EPA 180.1	09-09-2005 1200 BM
Cation/Anion Balance	2.7	----	%		10-04-2005 0800 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

APPENDIX B-3
WATER MONITORING

FOURTH QUARTER

Sunnyside Cogeneration Associates

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

January 11, 2006

Division of Oil, Gas & Mining
STATE OF UTAH
1594 W. North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Att: Ms. Pam Grubaugh-Littig

Subject: Quarterly Sampling Report
Monitoring Period: October, November, December 2005
DOGM Operational Water Monitoring

Dear Pam:

This letter is to confirm that the quarterly baseline water sampling data and the UPDES DMR data, have been submitted to the DOGM EDI web site. The data is correct and ready to be processed.

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. Robert Escalante
Rusty Netz
Plant File

TABLE 2

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data
DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: Fourth Quarter 2005
Samples taken November 14, 2005

Monitoring Location	Location I.D.	Temp. (C)	pH (su)	SC (umhos)	Dissolved Oxygen (mg/l)	Flow Rate (gpm)	Flow method
Icelander Creek	ICE-1	7.7	8.61	1529	9.7	50	2
Columbia Dugway Spring	F-2	9.1	8.58	1489	9	55	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	7.8	8.02	4870	8.15	45	2
Dragerton Well	Well-1	10.5	7.98	1124	9.2	250	4
Borehole B-6	B-6	NW	NW	NW	NW	NW	NW

Notes:
na - no flow
NW- no water present
NW/F- no water present frozen
nd - data is not available due to lack of discharge
1- Flow rates were measured using a weir.
2 - Flow rates were measured using a calibrated container and stopwatch method.
3 - Flow rates were measured using the floating debris method.
4 - Flow rates were measured using a meter

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:Well #1
RECEIVED 1015
SAMPLED 1115
FIELD MEASUREMENTS
FLOW 250 TEMP 10.5
COND 1124 pH 7.98
D.O. 9.2
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28331

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst	
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	11-23-2005 1330	DI
Alkalinity, Bicarbonate	407	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Alkalinity, Total	407	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Anions	13.0	----	meq/l	---------	12-20-2005 0700	SJ
Calcium, Total	64.40	0.03	mg/l	EPA 200.7	12-03-2005 1917	DI
Calcium, Dissolved	63.50	0.03	mg/l	EPA 200.7	12-06-2005 1617	JJ
Cations	13.5	----	meq/l	---------	12-20-2005 0700	SJ
Chloride	19	1	mg/l	EPA 300.0	12-09-2005 0900	TSM
Conductivity	1277	----	umhos/cm	SM2510-B	11-21-2005 1345	BW
Hardness, Total	400	----	mg/l as $CaCO_3$	SM2340-B	12-20-2005 0700	SJ
Iron, Total	0.95	0.050	mg/l	EPA 200.7	12-03-2005 1917	DI
Iron, Dissolved	0.14	0.030	mg/l	EPA 200.7	12-06-2005 1617	JJ
Magnesium, Total	59.60	0.01	mg/l	EPA 200.7	12-03-2005 1917	DI
Magnesium, Dissolved	58.70	0.01	mg/l	EPA 200.7	12-06-2005 1617	JJ
Manganese, Total	0.006	0.002	mg/l	EPA 200.7	01-20-2037 1917	JJ
Manganese, Dissolved	0.002	0.002	mg/l	EPA 200.7	12-06-2005 1617	JJ
Oil & Grease	<2	2	mg/l	EPA 413.1	11-17-2005 0845	JJ
Oxygen, Dissolved	10.82	----	mg/l	EPA 360.1	11-15-2005 1020	JJ
pH	7.74	----	pH units	EPA 150.1	11-15-2005 1020	JJ
Potassium, Total	3.02	0.14	mg/l	EPA 200.7	12-03-2005 1917	DI
Potassium, Dissolved	2.88	0.14	mg/l	EPA 200.7	12-06-2005 1617	JJ
Sodium, Total	128.00	0.09	mg/l	EPA 200.7	12-03-2005 1917	DI
Sodium, Dissolved	124.00	0.09	mg/l	EPA 200.7	12-06-2005 1617	JJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:Well #1
RECEIVED 1015
SAMPLED 1115
FIELD MEASUREMENTS
FLOW 250 TEMP 10.5
COND 1124 pH 7.98
D.O. 9.2
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28331

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	11-15-2005 1100 JJ
Solids, Total Dissolved	738	30	mg/l	EPA 160.1	11-21-2005 0900 BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	11-21-2005 0900 BM
Sulfate	210	1	mg/l	EPA 300.0	12-09-2005 0900 TSM
Turbidity	10.0	0.1	NTU	EPA 180.1	11-15-2005 1350 DI
Cation/Anion Balance	1.6	----	%		12-20-2005 0700 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2
RECEIVED 1015
SAMPLED 1100
FIELD MEASUREMENTS
FLOW 55 TEMP 9.1
COND 1489 pH 8.58
D.O. 9.0
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28332

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst	
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	11-23-2005 1330	DI
Alkalinity, Bicarbonate	436	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Alkalinity, Carbonate	31	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Alkalinity, Total	467	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106	JJ
Anions	17.9	----	meq/l	---------	12-20-2005 0700	SJ
Calcium, Total	81.40	0.03	mg/l	EPA 200.7	12-03-2005 1917	DI
Calcium, Dissolved	81.40	0.03	mg/l	EPA 200.7	11-17-2005 1804	DI
Cations	18.8	----	meq/l	---------	12-20-2005 0700	SJ
Chloride	30	1	mg/l	EPA 300.0	12-09-2005 0900	TSM
Conductivity	1702	----	umhos/cm	SM2510-B	11-21-2005 1345	BW
Hardness, Total	560	----	mg/l as $CaCO_3$	SM2340-B	12-20-2005 0700	SJ
Iron, Total	0.25	0.050	mg/l	EPA 200.7	12-03-2005 1917	DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	11-17-2005 1804	DI
Magnesium, Total	86.70	0.01	mg/l	EPA 200.7	12-03-2005 1917	DI
Magnesium, Dissolved	86.70	0.01	mg/l	EPA 200.7	11-17-2005 1804	DI
Manganese, Total	0.020	0.002	mg/l	EPA 200.7	12-03-2005 1917	DI
Manganese, Dissolved	0.011	0.002	mg/l	EPA 200.7	11-17-2005 1804	DI
Oil & Grease	<2	2	mg/l	EPA 413.1	11-17-2005 0845	JJ
Oxygen, Dissolved	9.70	----	mg/l	EPA 360.1	11-15-2005 1020	JJ
pH	8.37	----	pH units	EPA 150.1	11-15-2005 1024	JJ
Potassium, Total	3.58	0.14	mg/l	EPA 200.7	12-03-2005 1917	DI
Potassium, Dissolved	3.58	0.14	mg/l	EPA 200.7	11-17-2005 1804	DI
Sodium, Total	173.00	0.09	mg/l	EPA 200.7	12-03-2005 1917	DI
Sodium, Dissolved	173.00	0.09	mg/l	EPA 200.7	11-17-2005 1804	DI

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:F-2
RECEIVED 1015
SAMPLED 1100
FIELD MEASUREMENTS
FLOW 55 TEMP 9.1
COND 1489 pH 8.58
D.O. 9.0
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28332

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst	
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	11-15-2005 1100	JJ
Solids, Total Dissolved	1046	30	mg/l	EPA 160.1	11-21-2005 0900	BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	11-21-2005 0900	BM
Sulfate	370	1	mg/l	EPA 300.0	12-09-2005 0900	TSM
Turbidity	3.9	0.1	NTU	EPA 180.1	11-15-2005 1350	DI
Cation/Anion Balance	2.5	----	%		12-20-2005 0700	SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:ICE 1
RECEIVED 1015
SAMPLED 1030
FIELD MEASUREMENTS
FLOW 50 TEMP 5.7
COND 1529 pH 8.61
D.O. 9.7
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28333

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	11-23-2005 1330 DI
Alkalinity, Bicarbonate	407	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Alkalinity, Carbonate	38	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Alkalinity, Total	445	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Anions	18.3	----	meq/l	---------	12-20-2005 0700 SJ
Calcium, Total	72.20	0.03	mg/l	EPA 200.7	12-03-2005 1917 DI
Calcium, Dissolved	72.20	0.03	mg/l	EPA 200.7	11-17-2005 1804 DI
Cations	19.9	----	meq/l	---------	12-20-2005 0700 SJ
Chloride	30	1	mg/l	EPA 300.0	12-09-2005 0900 TSM
Conductivity	1741	----	umhos/cm	SM2510-B	11-21-2005 1345 BW
Hardness, Total	565	----	mg/l as $CaCO_3$	SM2340-B	12-20-2005 0700 SJ
Iron, Total	0.18	0.050	mg/l	EPA 200.7	12-03-2005 1917 DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	11-17-2005 1804 DI
Magnesium, Total	93.40	0.01	mg/l	EPA 200.7	12-03-2005 1917 DI
Magnesium, Dissolved	93.40	0.01	mg/l	EPA 200.7	11-17-2005 1804 DI
Manganese, Total	0.012	0.002	mg/l	EPA 200.7	12-03-2005 1917 DI
Manganese, Dissolved	0.006	0.002	mg/l	EPA 200.7	11-17-2005 1804 DI
Oil & Grease	<2	2	mg/l	EPA 413.1	11-17-2005 0845 JJ
Oxygen, Dissolved	9.64	----	mg/l	EPA 360.1	11-15-2005 1020 JJ
pH	8.46	----	pH units	EPA 150.1	11-15-2005 1030 JJ
Potassium, Total	4.47	0.14	mg/l	EPA 200.7	12-03-2005 1917 DI
Potassium, Dissolved	4.47	0.14	mg/l	EPA 200.7	11-17-2005 1804 DI
Sodium, Total	196.00	0.09	mg/l	EPA 200.7	12-03-2005 1917 DI
Sodium, Dissolved	196.00	0.09	mg/l	EPA 200.7	11-17-2005 1804 DI

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:ICE 1
RECEIVED 1015
SAMPLED 1030
FIELD MEASUREMENTS
FLOW 50 TEMP 5.7
COND 1529 pH 8.61
D.O. 9.7
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28333

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	11-15-2005 1100 JJ
Solids, Total Dissolved	1083	30	mg/l	EPA 160.1	11-21-2005 0900 BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	11-21-2005 0900 BM
Sulfate	410	1	mg/l	EPA 300.0	12-09-2005 0900 TSM
Turbidity	7.6	0.1	NTU	EPA 180.1	11-15-2005 1350 DI
Cation/Anion Balance	4.3	----	%		12-20-2005 0700 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB
RECEIVED 1015
SAMPLED 1000
FIELD MEASUREMENTS
FLOW 45 TEMP 7.8
COND 4870 pH 8.02
D.O. 8.15
Ph AND D.O. EXPIRED WHEN RECIEVED
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB
Page 1 of 2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28334

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	5	mg/l as $CaCO_3$	D1067-92	11-23-2005 1330 DI
Alkalinity, Bicarbonate	375	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Alkalinity, Carbonate	<5	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Alkalinity, Total	375	5	mg/l as $CaCO_3$	EPA 310.1	11-15-2005 1106 JJ
Anions	78.8	----	meq/l	---------	12-20-2005 0700 SJ
Calcium, Total	470.00	0.03	mg/l	EPA 200.7	12-03-2005 1917 DI
Calcium, Dissolved	470.00	0.03	mg/l	EPA 200.7	11-17-2005 1804 DI
Cations	82.8	----	meq/l	---------	12-20-2005 0700 SJ
Chloride	130	1	mg/l	EPA 300.0	12-09-2005 0900 TSM
Conductivity	6270	----	umhos/cm	SM2510-B	11-21-2005 1345 BW
Hardness, Total	2714	----	mg/l as $CaCO_3$	SM2340-B	12-20-2005 0700 SJ
Iron, Total	0.75	0.050	mg/l	EPA 200.7	12-03-2005 1917 DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	11-17-2005 1804 DI
Magnesium, Total	374.00	0.01	mg/l	EPA 200.7	12-03-2005 1917 DI
Magnesium, Dissolved	374.00	0.01	mg/l	EPA 200.7	11-17-2005 1804 DI
Manganese, Total	0.379	0.002	mg/l	EPA 200.7	12-03-2005 1917 DI
Manganese, Dissolved	0.291	0.002	mg/l	EPA 200.7	11-17-2005 1804 DI
Oil & Grease	<2	2	mg/l	EPA 413.1	11-17-2005 0845 JJ
Oxygen, Dissolved	12.09	----	mg/l	EPA 360.1	11-15-2005 1020 JJ
pH	8.17	----	pH units	EPA 150.1	11-15-2005 1035 JJ
Potassium, Total	30.60	0.14	mg/l	EPA 200.7	12-03-2005 1917 DI
Potassium, Dissolved	29.30	0.14	mg/l	EPA 200.7	11-17-2005 1804 DI
Sodium, Total	639.00	0.09	mg/l	EPA 200.7	12-03-2005 1917 DI
Sodium, Dissolved	639.00	0.09	mg/l	EPA 200.7	11-17-2005 1804 DI

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS

December 20, 2005

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:CRB
RECEIVED 1015
SAMPLED 1000
FIELD MEASUREMENTS
FLOW 45 TEMP 7.8
COND 4870 pH 8.02
D.O. 8.15
Ph AND D.O. EXPIRED WHEN RECIEVED
CHLORIDE & SULFATE ANALYZED @ CHEMTECH FORD
DIS.METALS
FILTERED @ LAB
Page 2 of 2

Kind of sample reported to us Water

Sample taken at Sunnyside Cogeneration

Sample taken by Rusty Netz

Date sampled November 14, 2005

Date received November 15, 2005

Analysis report no. 59-28334

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	11-15-2005 1100 JJ
Solids, Total Dissolved	5734	30	mg/l	EPA 160.1	11-21-2005 0900 BM
Solids, Total Suspended	<5	5	mg/l	EPA 160.2	11-21-2005 0900 BM
Sulfate	3250	1	mg/l	EPA 300.0	12-09-2005 0900 TSM
Turbidity	3.5	0.1	NTU	EPA 180.1	11-15-2005 1350 DI
Cation/Anion Balance	2.4	----	%		12-20-2005 0700 SJ

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

APPENDIX C
DEPARTMENT OF COMMERCE
CERTIFICATES OF EXISTENCE

Utah Department of Commerce
Division of Corporations & Commercial Code
160 East 300 South, 2nd Floor, PO Box 146705
Salt Lake City, UT 84114-6705
Service Center: (801) 530-4849
Toll Free: (877) 526-3994 Utah Residents
Fax: (801) 530-6438
Web Site: http://www.commerce.utah.gov

02/17/2006
4911242-015002172006-464007

CERTIFICATE OF EXISTENCE

Registration Number:	4911242-0150
Business Name:	SUNNYSIDE COGENERATION ASSOCIATES
Registered Date:	April 24, 2001
Entity Type:	DBA
Current Status:	Good Standing

The Division of Corporations and Commercial Code of the State of Utah, custodian of the records of business registrations, certifies that the business entity on this certificate is authorized to transact business and was duly registered under the laws of the State of Utah. The Division also certifies that this entity has paid all fees and penalties owed to this state; its most recent annual report has been filed by the Division; and, that Articles of Dissolution have not been filed.

Kathy Berg
Director
Division of Corporations and Commercial Code

Utah Department of Commerce
Division of Corporations & Commercial Code
160 East 300 South, 2nd Floor, PO Box 146705
Salt Lake City, UT 84114-6705
Service Center: (801) 530-4849
Toll Free: (877) 526-3994 Utah Residents
Fax: (801) 530-6438
Web Site: http://www.commerce.utah.gov

02/17/2006
2113550-018102172006-464009

CERTIFICATE OF EXISTENCE

Registration Number:	2113550-0181
Business Name:	SUNNYSIDE II, L.P.
Registered Date:	December 30, 1994
Entity Type:	Limited Partnership
Current Status:	Good Standing

The Division of Corporations and Commercial Code of the State of Utah, custodian of the records of business registrations, certifies that the business entity on this certificate is authorized to transact business and was duly registered under the laws of the State of Utah. The Division also certifies that this entity has paid all fees and penalties owed to this state; its most recent annual report has been filed by the Division; and, that Articles of Dissolution have not been filed.

Kathy Berg

Kathy Berg
Director
Division of Corporations and Commercial Code

Utah Department of Commerce
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160 East 300 South, 2nd Floor, PO Box 146705
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Toll Free: (877) 526-3994 Utah Residents
Fax: (801) 530-6438
Web Site: http://www.commerce.utah.gov

03/24/2006
1215877-014303242006-465679

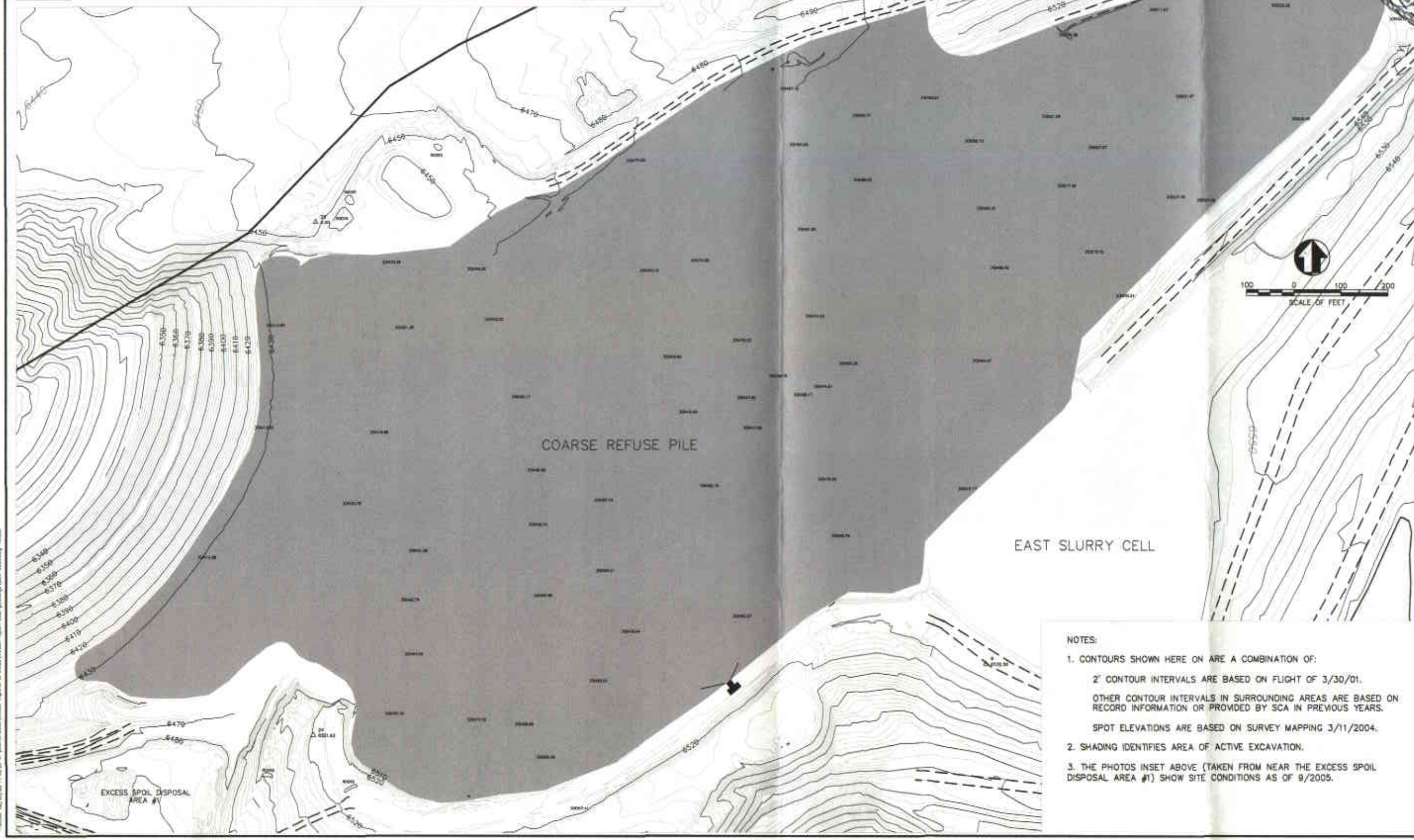
CERTIFICATE OF EXISTENCE

Registration Number:	1215877-0143
Business Name:	SUNNYSIDE HOLDINGS I, INC.
Registered Date:	December 30, 1994
Entity Type:	Corporation
Current Status:	Good Standing

The Division of Corporations and Commercial Code of the State of Utah, custodian of the records of business registrations, certifies that the business entity on this certificate is authorized to transact business and was duly registered under the laws of the State of Utah. The Division also certifies that this entity has paid all fees and penalties owed to this state; its most recent annual report has been filed by the Division; and, that Articles of Dissolution have not been filed.

Kathy Berg
Director
Division of Corporations and Commercial Code

APPENDIX D
MINE MAP



NOTES:

1. CONTOURS SHOWN HERE ON ARE A COMBINATION OF:

   2' CONTOUR INTERVALS ARE BASED ON FLIGHT OF 3/30/01.

   OTHER CONTOUR INTERVALS IN SURROUNDING AREAS ARE BASED ON RECORD INFORMATION OR PROVIDED BY SCA IN PREVIOUS YEARS.

   SPOT ELEVATIONS ARE BASED ON SURVEY MAPPING 3/11/2004.

2. SHADING IDENTIFIES AREA OF ACTIVE EXCAVATION.

3. THE PHOTOS INSET ABOVE (TAKEN FROM NEAR THE EXCESS SPOIL DISPOSAL AREA #1) SHOW SITE CONDITIONS AS OF 9/2005.

REGISTERED PROFESSIONAL ENGINEER
REED S. SCOTT CARLSON
STATE OF UTAH

SUNNYSIDE COGENERATION ASSO.
SUNNYSIDE REFUSE/SLURRY MINE MAP

TWIN PEAKS Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3311, (801) 439-0700 FAX

AH	AH	SSC
DRAWN	CHECKED	DESIGNED

SHEET 1 OF 1