Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

March 31, 2019

Steve Christensen
Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84116

RE: Sunnyside Cogeneration Associates, Annual Reports
Sunnyside Refuse/Slurry, C007/035
Star Point Waste Fuel, C/007/042

Dear Mr. Christensen,

Enclosed, please find the Annual Reports for the Sunnyside Refuse/Slurry, C007/035 and Star Point Waste Fuel, C/007/042 mine sites. As requested, we have saved the reports and a variety of supplemental information electronically on the enclosed CD.

Your January 11, 2019 standard letter mentioned several items, in addition to the regular report information.

1. Raptor and archeology reports – SCA is not required to submit any raptor or archeology reports.

2. Mine map identifying mining in 2018 and proposed mining for the next five years – SCA has submitted with the report an updated mining map.

If you have any questions, please feel free to call Rusty Netz or myself at (435) 888-4476.

Thank You,

Gerald Hascall
Agent for
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

SUNNYSIDE COGENERATION ASSOCIATES
SUNNYSIDE REFUSE/SLURRY
C/007/0035
2018 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

RECEIVED
APR 05 2019
DIV OF OIL, GAS & MINING

SUNNYSIDE COGENERATION ASSOCIATES
SUNNYSIDE REFUSE/SLURRY
2018 ANNUAL REPORT

TABLE OF CONTENTS

I. GENERAL PERMIT INFORMATION

Permit Number:	C/007/0035
Mine Name:	Sunnyside Refuse/Slurry
Permittee:	Sunnyside Cogeneration Associates
Company Representative & Resident Agent:	Mr. Gerald Hascall Plant Manager 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, 2018
Date of Expiration:	February 4, 2023

SCA did not submit any permit amendments during 2018.

II. IDENTIFICATION OF OTHER PERMITS

MSHA ID Numbers:	Sunnyside Waste Coal Site	42-02093
	Coarse Refuse Pile	1211-UT-09-02093-01
	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 July 1, 2018
Expires June 30, 2023

Air Quality Title V Operating Permit: #700030001

SCA renewed its Title V permit in 2013. 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.

III. CERTIFIED REPORTS

All impoundments, 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 storm water discharges occurred during 2018.

All of the spoils materials and coal reject materials generated during 2018 were placed in the Excess Spoil Disposal Area #2 Phase 2 area. No new materials were placed in the Excess Spoil Disposal Area #1. Construction is progressing in general conformance with design requirements as currently approved.

SCA gathered soil samples from material added in 2018 to the Excess Spoil Disposal Area #2 Phase 2, composited the samples and sent the composite sample to BYU Lab. Test results were received in March, 2019. These analytical test results are included at the end of **Appendix A** in this report. The 2018 results will also be submitted with the 1st Quarter 2019 inspection report.

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

Sunnyside City has discontinued collection of weather data. No local source is available.

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 2011, SCA performed final reclamation treatment on the Phase 1 portion of the Excess Spoil Disposal Area #2. Low precipitation conditions during 2012 produced less vegetation growth than desired. SCA reseeded this area in Fall 2012. Vegetation shows signs of success.

In an effort to perform contemporaneous reclamation, SCA is committed to reclaim areas of two acres or larger that are permanently excavated of waste, and are no longer needed for the continued operations. There are currently no additional areas that meet these criteria.

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. These areas previously reseeded with the interim revegetation seed mix have been periodically checked by SCA and appear to have vegetative growth similar to the surrounding area.

4. Raptor Surveys and Wildlife Programs

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.

SCA is committed to carrying out its operations in a manner that minimizes potential impact on wildlife in the area. These operations are centered on excavation and hauling activities in and around the coal pile and storage areas. These operations continue to be performed in a manner that does not prevent the necessary migration of large mammals. No additional efforts have been requested by DOGM to provide for migration routes.

SCA also provides periodic wildlife awareness training during employee staff meetings to educate employees associated with the site activities regarding the values of the wildlife resources in the local area. Employee training advises against unnecessary harassment or taking of wildlife on site.

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 MRP (Appendix 7-8). The results of these analyses indicate that the water quality has remained in general similarity to that observed during the prior monitoring periods.

The 2018 water data from each of the quarterly monitoring periods was submitted to the Division throughout the year. An additional copy of the data has been included in **Appendix B** 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 2018, SCA burned approximately 85,864 tons from the Sunnyside permit area. The Sunnyside facility also received and processed approximately 222,543 tons from the Star Point facility, approximately 130,083 tons from the Price River Terminal and approximately 3,042 from BRC - SUFCO.

b. Excess Spoil Disposal Area #1

No new material was placed in this disposal area during 2018.

c. Excess Spoil Disposal Area #2

Approximately 26,565 tons of material was placed in the XS Spoil #2 Phase 2 area during 2018.

Inspections of the refuse area and both 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.

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 Colmac Utah Inc. **Appendix C** includes copies of the Certificates of Existence for Sunnyside Cogeneration Associates, Colmac Utah Inc, Sunnyside Holdings I. Inc. and its parent company Colmac Sunnyside, Inc. 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 includes recent site contours obtained from an aerial survey used to generate contours of the site. This aerial survey was performed in April 2017.

Mining excavation of the refuse pile has occurred in general conformance with the approved mining plan.

Mining activity proposed for the next five years is projected to occur in general conformance with the mining plan shown on the PE Certified drawings approved in the Mining and Reclamation Permit.

2018 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2019.

GENERAL INFORMATION

Company Name	Sunnyside Cogeneration Associates	Mine Name	Sunnyside Refuse and Slurry
Permit Number	C/007/0035	Permit Expiration Date	2023-02-04
Operator Name	Gerald Hascall - Plant Manager	Phone Number	+1 (435) 888-4476
Mailing Address	PO Box 159	Email	
City	Sunnyside		
State	UT	Zip Code	84539

		DOGM File Location or Annual Report Location
Excess Spoil Piles	☒ Required ☐ Not Required	Submitted Quarterly to DOGM
Refuse Piles	☒ Required ☐ Not Required	Submitted Quarterly to DOGM
Impoundments	☒ Required ☐ Not Required	Submitted Quarterly to DOGM
Other:		

OPERATOR COMMENTS

Sediment Ponds, Refuse Pile and Excess Spoil Disposal Area were inspected quarterly and PE Certified reports were submitted to the division.
All impoundments performed as designed. No discharges were recorded in 2018
Refuse Pile is being excavated as intended and in conformance with the approved plan.
Disposal areas are being constructed in conformance with the approved plan.
Permit renewal was completed in 2018

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: ANNUAL RECLAMATION
Objective: To reclaim areas no longer needed for mining activities and to reduce the acreage under the currency reclamation cost estimate.
Frequency: Annually
Status: Ongoing.
Reports: Annual- Summary of Reclamation work and include vegetation monitoring reports (if any).
Citation: Chapter 9, page 900-25, section 9.12

OPERATOR COMMENTS

The Phase 1 portion of the Excess Spoil Disposal Area #2 was reclaimed in accordance with final reclamation requirements in 2011. vegetation cover appears to be succeeding

No other areas within the permit boundary are ready for reclamation at this time.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: EXCESS SPOIL (REFUSE) SAMPLING
Objective: To evaluate the chemistry of the waste rock for the purpose of determining final cover depth requirement per R-645-301-553.252.
Frequency: After completion of each 2-4 ft. lift.
Status: Ongoing.
Reports: Annual report
Citation: Chapter 9, page 900-12 and Appendices 9-5 and 9-7

OPERATOR COMMENTS

SCA Sampled material placed in the Excess Spoil Disposal Area #2 Phase 2 in Dec 2018. Samples were composited and tested at BYU soils lab for parameters and methods as directed by the Division. Test results were received in March 2018 and are included with this annual report. SCA anticipates adding a vegetative soil cover over this area as part of the reclamation process.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: REFUSE SAMPLING PRIOR TO FINAL RECLAMATION

Objective: To sample the remainder of the refuse and slurry areas for acid/toxic parameters prior to final reclamation.
Frequency: Final Reclamation
Status: Ongoing
Reports: Annual
Citation: Chapter 7, section 731.300 thru 731.320, page 700-15.

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

No local temperature and precipitation data is available, No subsidence monitoring is required. No raptor surveys are required.
No Geological monitoring is required

Quarterly water monitoring reports are submitted to the Division throughout the year.
SCA burned approximately 85,864 tons of material excavated from the Sunnyside site, in addition to material transported in from other locations (222,543 tons from Star Point, 130,083 tons from Price River Terminal in Wellington, and 3,042 tons from BRC SUFCO).
Approximately 26,565 tons of material were placed in the Excess Spoil Disposal Area #2, Phase 2 area during 2018.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Mine Map	1	☒	☐	☐	☒
Mine Sequening plan is current in Permit document	9-4	☐	☒	☐	☒
		☐	☐	☐	☐
		☐	☐	☐	☐
		☐	☐	☐	☐

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Mining terraces range from approximately 6400 at the low end (west) to about 6530 at the high end (east). the active areas have varied somewhat over the past few years to meet the fuel demands and operational needs of the facility.

APPENDIX A
CERTIFIED REPORTS

APPENDIX A
CERTIFIED REPORTS

FIRST QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

April 23, 2018

Daron Haddock
Utah Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: 1st Quarter 2018 Inspection Report
Sunnyside Refuse Pile C/007/035

Dear Daron:

Please find enclosed a copy of the First Quarter 2018 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil areas.

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

Thank You,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **RailCut Sediment Pond #007**
UPDES Permit Number: UT024759

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

RECEIVED
APR 20 2018
BY:

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 4.8 Acre-feet
Pond bottom elevation = 6206.0
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7
Existing Sediment Elevation = 6207.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07
Emergency Spillway Elevation = 6212.34

2. Field Information

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

Pond had no water. No samples were taken Pond did not require decanting
Sediment levels were acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Rail Cut Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	March 29, 2018
Mine Name:	Sunnyside Refuse and Slurry		First Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty netz
Impoundment Name:	**Old Coarse Refuse Road Sediment Pond #008**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 0.9 Acre-feet
Pond bottom elevation = 6394.0
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75
Existing Sediment Elevation = 6394.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75
Emergency Spillway Elevation = 6399.4

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Old Coarse Refuse Road Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

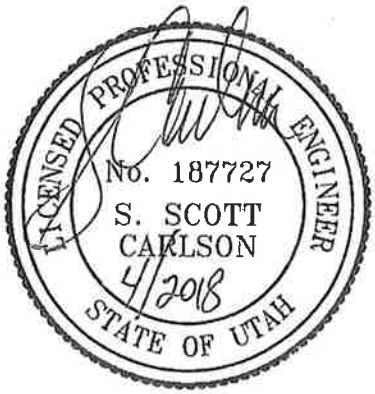
COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	March 29, 2018
Mine Name:	Sunnyside Refuse and Slurry		First Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Pasture Sediment Pond #009**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 3.2 Acre-feet
Pond bottom elevation = 6484.5
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5
Existing Sediment Elevation = 6484.9 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6
Emergency Spillway Elevation = 6490.6

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Pasture Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	March 29, 2018
Mine Name:	Sunnyside Refuse and Slurry		First Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Coarse Refuse Toe Sediment Pond #012**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.6 Acre-feet
Pond bottom elevation = 6176.0
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0
Existing Sediment Elevation = 6176.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2
Emergency Spillway Elevation = 6183.63

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coarse Refuse Toe Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

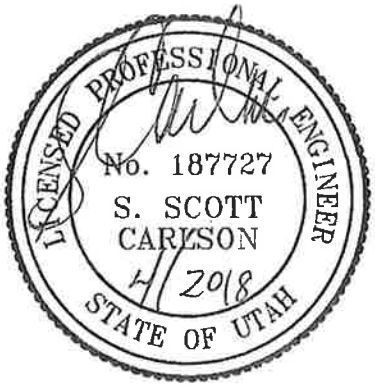
None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Coal Pile Sediment Pond #014**
UPDES Permit Number: UT024759

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.65 Acre-feet
Pond bottom elevation = 6471.5
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6472.0 +/-

b. Principle and emergency spillway elevations.

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

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coal Pile Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Borrow Area Sediment Pond #016**
UPDES Permit Number: UT024759

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

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

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3
Emergency Spillway Elevation = 6517.03

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Borrow Area Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – REFUSE PILE

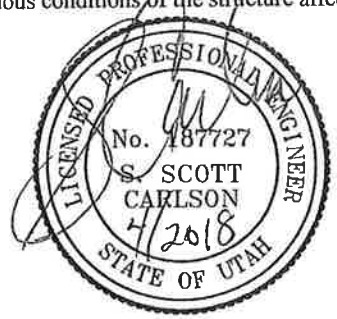
Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-01
Facility Name: **Coarse Refuse Pile**

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg **15** Maximum **25** Elevation of Active Benches: **approximately 6400, 6425, 6450**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 2.6–3.1 Million Tons** Volume removed during year: **2018 ytd: apx. 27,327tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **NA**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **N/A - Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** — **none observed**
    b. Is there any detectable sloughing or bulging? **NO** — **none observed**
    c. Do slope erosion problems exist? **NO** — **none observed**
    d. Cracks or scarps in slope? **NO** — **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** — **none observed**
    f. Erosion of Toe? **NO** — **none observed**
    g. Water impounded by structure? **NO** — **none observed**
    h. Are diversion ditches stable? **YES** — **appear reasonable**
    i. Is drainage positive? **YES** — **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**

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

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



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-04
Facility Name: **Excess Spoil Disposal Area #1**

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2018 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

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

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

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON 4/20/18 STATE OF UTAH

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-05
Facility Name: **Excess Spoil Disposal Area #2**

Inspection Date: March 29, 2018
First Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx 5,600 tons of material placed in the Phase II area during the quarter**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K-350K cuyd** Remaining storage capacity **estimated 85K-125K cuyd**
   Volume placed during year: **2018 ytd: 5,600 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2017 is provided as an attachment to this report**

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

By: S. Scott Carlson, PE, Twin Peaks, P.C.
P.E. Number & State: 187727 UTAH
Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
4/2018
STATE OF UTAH

BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory
1026 LSB
Provo, UT 84602
801-422-2147

Plant and Wildlife Sciences Department

SAMPLE TEST REPORT AND RECOMMENDATIONS

Name: Sunnyside Cogeneration
Street: One Power Plant Road
Sunnyside (City) Utah (State) 84539 (Zip)

Date: 28-Mar-17
Telephone: 435-888-4476
Work Order: 859

Sample Identification	Crop to be grown	pH	% Sand	% Silt	% Clay	Soil Texture	% Organic Matter	% Organic Carbon
12/2/16 Composite Sample Spoils Material	Turf	7.5	58.9	20.7	20.4	Sandy Clay Loam	7.3	4.2

Test	Results	Very Low	Low	Medium	High	Very High	Recommendations
Nitrate-Nitrogen ppm N	1.9	X					apply 2.8 lbs of N/1000 sq ft
Phosphorus ppm P	9.0		X				apply 1.4 lbs of P2O5/1000 sq ft
Potassium ppm K	134				X		no fertilizer needed
Salinity-ECe dS/m	3.9			X			potential salinity problem
Boron mg/kg B	3.4				X		
Selenium mg/kg Se	0.04	X					
SAR-Sodium Adsorption Ratio	0.2	X		X			no sodium hazard
Calcium-SAR ppm Ca	568						
Potassium SAR ppm K	29						
Magnesium SAR ppm Mg	36						
Sodium SAR ppm Na	22						
Sulfur %S	0.41		X				
Acid Potential tons CaCO3/1000 tons	12.8						
Ca Carbonate %CaCO3	8.7		X				
Neutralization Pot. tons CaCO3/1000 tons	87.0						
Acid Base Potential tons CaCO3/1000 tons	74.2	X					Good

Notes:

APPENDIX A
CERTIFIED REPORTS

SECOND QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

July 23, 2018

Daron Haddock
Utah Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: 2nd Quarter 2018 Inspection Report
Sunnyside Refuse Pile C/007/035

Dear Daron:

Please find enclosed a copy of the Second Quarter 2018 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil areas.

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

Thank You,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	June 28, 2018
Mine Name:	Sunnyside Refuse and Slurry		Second Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**RailCut Sediment Pond #007**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 4.8 Acre-feet
Pond bottom elevation = 6206.0
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7
Existing Sediment Elevation = 6207.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07
Emergency Spillway Elevation = 6212.34

2. Field Information

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

Pond had no water. No samples were taken Pond did not require decanting
Sediment levels were acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Rail Cut Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Inspection Date: June 28, 2018
Mine Name: Sunnyside Refuse and Slurry
Second Quarter 2018
Mine Operator (Permittee): Sunnyside Cogeneration Associates
Inspector: Rusty Netz
MSHA ID Number: N/A
Signature: Rusty Netz
Impoundment Name: **Old Coarse Refuse Road Sediment Pond #008**
UPDES Permit Number: UT024759

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 0.9 Acre-feet
Pond bottom elevation = 6394.0
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75
Existing Sediment Elevation = 6394.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75
Emergency Spillway Elevation = 6399.4

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Old Coarse Refuse Road Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	June 28, 2018
Mine Name:	Sunnyside Refuse and Slurry		Second Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Pasture Sediment Pond #009**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 3.2 Acre-feet
Pond bottom elevation = 6484.5
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5
Existing Sediment Elevation = 6484.9 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6
Emergency Spillway Elevation = 6490.6

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Pasture Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	June 28, 2018
Mine Name:	Sunnyside Refuse and Slurry		Second Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Coarse Refuse Toe Sediment Pond #012**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.6 Acre-feet
Pond bottom elevation = 6176.0
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0
Existing Sediment Elevation = 6176.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2
Emergency Spillway Elevation = 6183.63

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coarse Refuse Toe Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

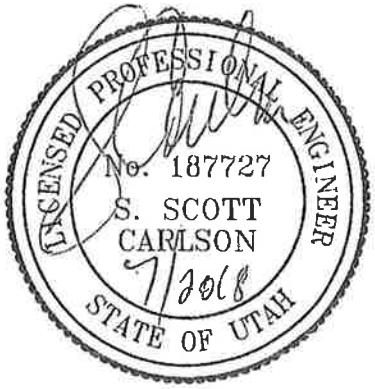
None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Coal Pile Sediment Pond #014**
UPDES Permit Number: UT024759

Inspection Date: June 28, 2018
Second Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.65 Acre-feet
Pond bottom elevation = 6471.5
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6472.5 +/-

b. Principle and emergency spillway elevations.

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

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coal Pile Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

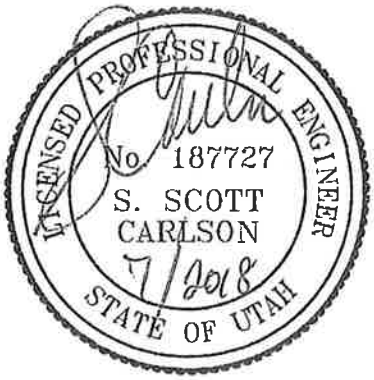
COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Borrow Area Sediment Pond #016**
UPDES Permit Number: UT024759

Inspection Date: June 28, 2018
Second Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

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

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3
Emergency Spillway Elevation = 6517.03

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Borrow Area Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – REFUSE PILE

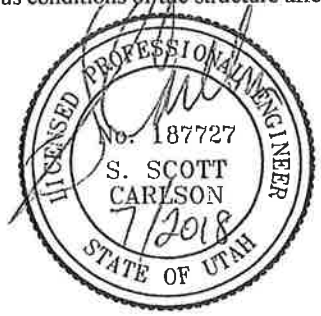
Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-01
Facility Name: **Coarse Refuse Pile**

Inspection Date: June 28, 2018
Second Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg **15** Maximum **25** Elevation of Active Benches: **approximately 6400, 6425, 6450**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 2.6–3.1 Million Tons** Volume removed during year: **2018 ytd: apx. 53,000tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **NA**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **N/A - Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** — **none observed**
    b. Is there any detectable sloughing or bulging? **NO** — **none observed**
    c. Do slope erosion problems exist? **NO** — **none observed**
    d. Cracks or scarps in slope? **NO** — **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** — **none observed**
    f. Erosion of Toe? **NO** — **none observed**
    g. Water impounded by structure? **NO** — **none observed**
    h. Are diversion ditches stable? **YES** — **appear reasonable**
    i. Is drainage positive? **YES** — **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**

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

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



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-04
Facility Name: **Excess Spoil Disposal Area #1**

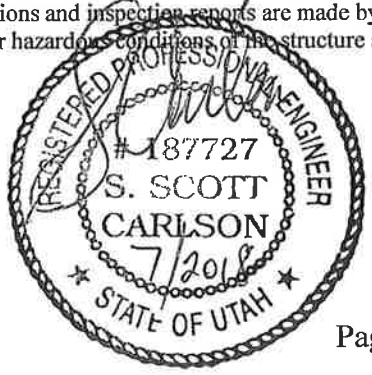
Inspection Date: June 28, 2018
Second Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2018 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-05
Facility Name: **Excess Spoil Disposal Area #2**

Inspection Date: June 28, 2018
Second Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx 6,500 tons of material placed in the Phase II area during the quarter**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K-350K cuyd** Remaining storage capacity **estimated 85K-125K cuyd**
   Volume placed during year: **2018 ytd: 12,100 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO none observed**
    b. Is there any detectable sloughing or bulging? **NO none observed**
    c. Do slope erosion problems exist? **NO erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO none observed**
    e. Surface movements? (valley bottom, hillsides) **NO none observed**
    f. Erosion of Toe? **NO none observed**
    g. Water impounded by structure? **NO none observed**
    h. Are diversion ditches stable? **YES appear reasonable**
    i. Is drainage positive? **YES surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2017 was provided as an attachment to the 1st Qtr report**

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

By: S. Scott Carlson, PE, Twin Peaks, P.C.
P.E. Number & State: 187727 UTAH
Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
7/2018
STATE OF UTAH

APPENDIX A
CERTIFIED REPORTS

THIRD QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

October 30, 2018

Daron Haddock
Utah Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: 3rd Quarter 2018 Inspection Report
Sunnyside Refuse Pile C/007/035

Dear Daron:

Please find enclosed a copy of the Third Quarter 2018 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil areas.

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

Thank You,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **RailCut Sediment Pond #007**
UPDES Permit Number: UT024759

Inspection Date: Sept 27, 2018
Third Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 4.8 Acre-feet
Pond bottom elevation = 6206.0
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7
Existing Sediment Elevation = 6207.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07
Emergency Spillway Elevation = 6212.34

2. Field Information

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

Pond had no water. No samples were taken Pond did not require decanting
Sediment levels were acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Rail Cut Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Sept 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Third Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Old Coarse Refuse Road Sediment Pond #008**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 0.9 Acre-feet
Pond bottom elevation = 6394.0
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75
Existing Sediment Elevation = 6394.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75
Emergency Spillway Elevation = 6399.4

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Old Coarse Refuse Road Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Sept 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Third Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty netz
Impoundment Name:	**Pasture Sediment Pond #009**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 3.2 Acre-feet
Pond bottom elevation = 6484.5
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5
Existing Sediment Elevation = 6484.9 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6
Emergency Spillway Elevation = 6490.6

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Pasture Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Sept 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Third Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Coarse Refuse Toe Sediment Pond #012**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.6 Acre-feet
Pond bottom elevation = 6176.0
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0
Existing Sediment Elevation = 6176.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2
Emergency Spillway Elevation = 6183.63

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coarse Refuse Toe Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Coal Pile Sediment Pond #014**
UPDES Permit Number: UT024759

Inspection Date: Sept 27, 2018
Third Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.65 Acre-feet
Pond bottom elevation = 6471.5
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6472.5 +/-

b. Principle and emergency spillway elevations.

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

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coal Pile Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Sept 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Third Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Borrow Area Sediment Pond #016**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

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

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3
Emergency Spillway Elevation = 6517.03

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Borrow Area Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – REFUSE PILE

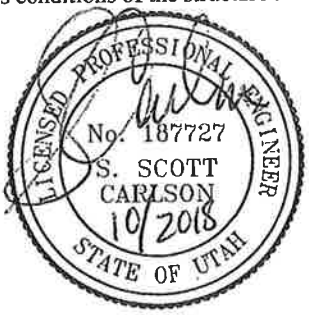
Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-01
Facility Name: **Coarse Refuse Pile**

Inspection Date: Sept 27, 2018
Third Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg **15** Maximum **25** Elevation of Active Benches: **approximately 6400, 6425, 6450**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 2.6–3.1 Million Tons** Volume removed during year: **2018 ytd: apx. 78,000tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **NA**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **N/A - Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** — **none observed**
    b. Is there any detectable sloughing or bulging? **NO** — **none observed**
    c. Do slope erosion problems exist? **NO** — **none observed**
    d. Cracks or scarps in slope? **NO** — **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** — **none observed**
    f. Erosion of Toe? **NO** — **none observed**
    g. Water impounded by structure? **NO** — **none observed**
    h. Are diversion ditches stable? **YES** — **appear reasonable**
    i. Is drainage positive? **YES** — **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**

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

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



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

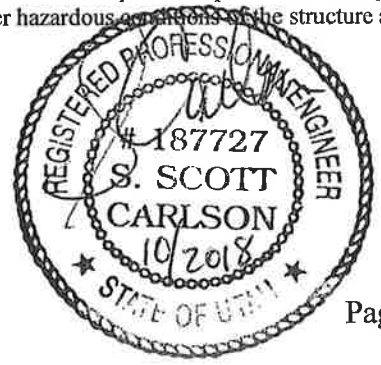
Permit Number:	C/007/035	Inspection Date:	Sept 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Third Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	1211-UT-09-02093-04	Signature:	Rusty Netz
Facility Name:	**Excess Spoil Disposal Area #1**		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2018 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-05
Facility Name: **Excess Spoil Disposal Area #2**

Inspection Date: Sept 27, 2018
Third Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx 9,310 tons of material placed in the Phase II area during the quarter**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K-350K cuyd** Remaining storage capacity **estimated 76K-116K cuyd**
   Volume placed during year: **2018 ytd: 21,400 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2017 was provided as an attachment to the 1st Qtr report**

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

By: S. Scott Carlson, PE, Twin Peaks, P.C.
P.E. Number & State: 187727 UTAH
Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER
#187727
S. SCOTT CARLSON
10/2018
STATE OF UTAH

APPENDIX A
CERTIFIED REPORTS

FOURTH QUARTER INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

January 11, 2019

Daron Haddock
Utah Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: 4th Quarter 2018 Inspection Report
Sunnyside Refuse Pile C/007/035

Dear Daron:

Please find enclosed a copy of the Fourth Quarter 2018 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil areas.

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

Thank You,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**RailCut Sediment Pond #007**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 4.8 Acre-feet
Pond bottom elevation = 6206.0
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7
Existing Sediment Elevation = 6207.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07
Emergency Spillway Elevation = 6212.34

2. Field Information

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

Pond had snow/ice cover. No samples were taken Pond did not require decanting
Sediment levels were acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Rail Cut Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Old Coarse Refuse Road Sediment Pond #008**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 0.9 Acre-feet
Pond bottom elevation = 6394.0
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75
Existing Sediment Elevation = 6394.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75
Emergency Spillway Elevation = 6399.4

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
Some water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Old Coarse Refuse Road Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Pasture Sediment Pond #009**
UPDES Permit Number: UT024759

Inspection Date: Dec 27, 2018
Fourth Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 3.2 Acre-feet
Pond bottom elevation = 6484.5
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5
Existing Sediment Elevation = 6484.9 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6
Emergency Spillway Elevation = 6490.6

2. Field Information

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

Pond had no water, some ice. No samples were taken Pond did not require decanting.
Sediment level was good
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Pasture Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Coarse Refuse Toe Sediment Pond #012**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.6 Acre-feet
Pond bottom elevation = 6176.0
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0
Existing Sediment Elevation = 6176.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2
Emergency Spillway Elevation = 6183.63

2. Field Information

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

Pond had some snow / ice cover. No samples were taken Pond did not require decanting
Sediment level was acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coarse Refuse Toe Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

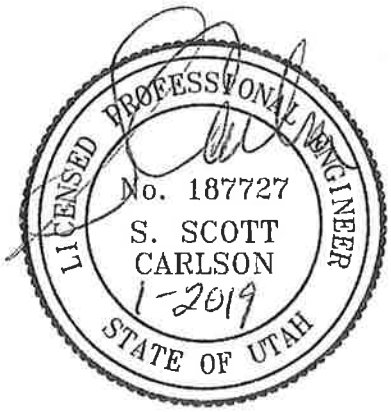
None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Coal Pile Sediment Pond #014**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.65 Acre-feet
Pond bottom elevation = 6471.5
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6472.5 +/-

b. Principle and emergency spillway elevations.

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

2. Field Information

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

Pond had no water, some ice. No samples were taken Pond did not require decanting.
Sediment level was good.
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coal Pile Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

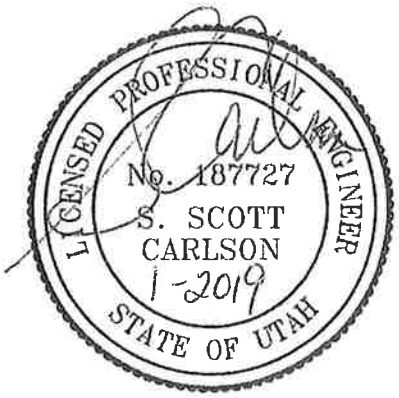
COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Borrow Area Sediment Pond #016**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

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

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3
Emergency Spillway Elevation = 6517.03

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
Some water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Borrow Area Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – REFUSE PILE

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Fourth Quarter 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	1211-UT-09-02093-01	Signature:	Rustynetz
Facility Name:	**Coarse Refuse Pile**		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg **15** Maximum **25** Elevation of Active Benches: **approximately 6400, 6425, 6450**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 2.6–3.1 Million Tons** Volume removed during year: **2018 ytd: apx. 87,000tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **NA**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **N/A - Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **none observed**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**

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

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

LICENSED PROFESSIONAL ENGINEER
No. 187727
S. SCOTT CARLSON
1-2019
STATE OF UTAH

QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-04
Facility Name: **Excess Spoil Disposal Area #1**

Inspection Date: Dec 27, 2018
Fourth Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2018 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

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

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

Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
1-2019
STATE OF UTAH

QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-05
Facility Name: **Excess Spoil Disposal Area #2**

Inspection Date: Dec 27, 2018
Fourth Quarter 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx 4,830 tons of material placed in the Phase II area during the quarter**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K cuyd** Remaining storage capacity **estimated 30K-70K cuyd**
   Volume placed during year: **2018 ytd: 26,200 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2018 will be provided as an attachment to the 1st Qtr 2019 report**

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

By: S. Scott Carlson, PE, Twin Peaks, P.C.
P.E. Number & State: 187727 UTAH
Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER
187727
S. SCOTT CARLSON
1/2019
STATE OF UTAH

APPENDIX A
CERTIFIED REPORTS

ANNUAL INSPECTION

IMPOUNDMENTS, REFUSE PILE AND DISPOSAL AREAS

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

January 11, 2019

Daron Haddock
Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: Annual 2018 Inspection Report
Sunnyside Refuse and Slurry C/007/035

Dear Mr. Haddock:

Please find enclosed a copy of the Annual 2018 Inspection Report for the Sunnyside refuse pile, impoundments, and excess spoil areas.

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

Thank You,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **RailCut Sediment Pond #007**
UPDES Permit Number: UT024759

Inspection Date: Dec 27, 2018
Annual 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 4.8 Acre-feet
Pond bottom elevation = 6206.0
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7
Existing Sediment Elevation = 6207.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07
Emergency Spillway Elevation = 6212.34

2. Field Information

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

Pond had snow/ice cover. No samples were taken Pond did not require decanting
Sediment levels were acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Rail Cut Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Annual 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Old Coarse Refuse Road Sediment Pond #008**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 0.9 Acre-feet
Pond bottom elevation = 6394.0
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75
Existing Sediment Elevation = 6394.6 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75
Emergency Spillway Elevation = 6399.4

2. Field Information

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

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

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
Some water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Old Coarse Refuse Road Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Annual 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rusty Netz
Impoundment Name:	**Pasture Sediment Pond #009**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 3.2 Acre-feet
Pond bottom elevation = 6484.5
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5
Existing Sediment Elevation = 6484.9 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6
Emergency Spillway Elevation = 6490.6

2. Field Information

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

Pond had no water, some ice. No samples were taken Pond did not require decanting.
Sediment level was good
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Pasture Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: N/A
Impoundment Name: **Coarse Refuse Toe Sediment Pond #012**
UPDES Permit Number: UT024759

Inspection Date: Dec 27, 2018
Annual 2018
Inspector: Rusty Netz
Signature: Rusty Netz

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.6 Acre-feet
Pond bottom elevation = 6176.0
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0
Existing Sediment Elevation = 6176.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2
Emergency Spillway Elevation = 6183.63

2. Field Information

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

Pond had some snow / ice cover. No samples were taken Pond did not require decanting
Sediment level was acceptable
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

Coarse Refuse Toe Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

COMMENTS/ OTHER INFORMATION

None

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Annual 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	N/A	Signature:	Rustynetz
Impoundment Name:	**Coal Pile Sediment Pond #014**		
UPDES Permit Number:	UT024759		

IMPOUNDMENT INSPECTION

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

None

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

Total Pond Volume = 1.65 Acre-feet
Pond bottom elevation = 6471.5
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6472.5 +/-

b. Principle and emergency spillway elevations.

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

2. Field Information

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

Pond had no water, some ice. No samples were taken Pond did not require decanting.
Sediment level was good.
Embankment conditions were good. Vegetation on outslopes was adequate.
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

3. Field Evaluation.

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

No recent changes in the geometry of the structure have been observed
No water was impounded. Sediment level was good.
No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUARTERLY INSPECTION FORM – IMPOUNDMENT

Coal Pile Sediment Pond

CERTIFIED REPORT
IMPOUNDMENT EVALUATION

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

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

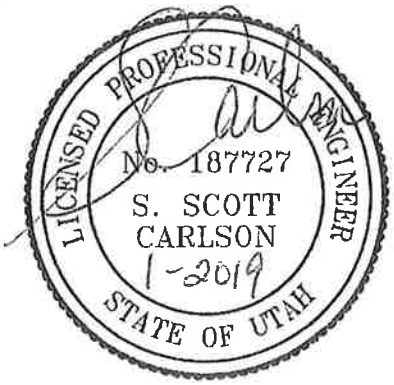
COMMENTS/ OTHER INFORMATION

CERTIFICATION STATEMENT:

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – REFUSE PILE

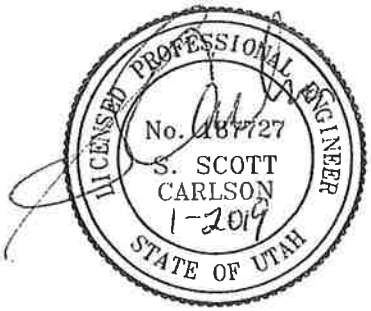
Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-01
Facility Name: **Coarse Refuse Pile**

Inspection Date: Dec 27, 2018
Annual 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg **15** Maximum **25** Elevation of Active Benches: **approximately 6400, 6425, 6450**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 2.6–3.1 Million Tons** Volume removed during year: **2018 ytd: apx. 87,000tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **NA**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **N/A - Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **none observed**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**

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

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



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

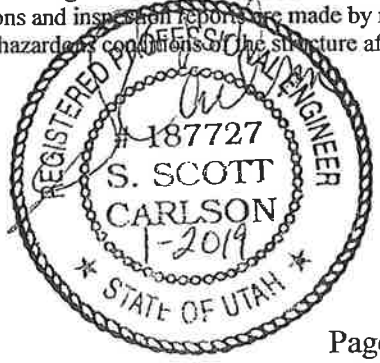
Permit Number:	C/007/035	Inspection Date:	Dec 27, 2018
Mine Name:	Sunnyside Refuse and Slurry		Annual 2018
Mine Operator (Permittee):	Sunnyside Cogeneration Associates	Inspector:	Rusty Netz
MSHA ID Number:	1211-UT-09-02093-04	Signature:	Rusty Netz
Facility Name:	**Excess Spoil Disposal Area #1**		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2018 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

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

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

Affix Signature, Stamp and Date



QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035
Mine Name: Sunnyside Refuse and Slurry
Mine Operator (Permittee): Sunnyside Cogeneration Associates
MSHA ID Number: 1211-UT-09-02093-05
Facility Name: **Excess Spoil Disposal Area #2**

Inspection Date: Dec 27, 2018
Annual 2018
Inspector: Rusty Netz
Signature: Rusty Netz

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx 4,830 tons of material placed in the Phase II area during the quarter**
2. Lift Height / Thickness Avg **2-4 ft** Maximum **4 ft** Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K cuyd** Remaining storage capacity **estimated 30K-70K cuyd**
   Volume placed during year: **2018 ytd: 26,200 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location , and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
    a. Are there any cracks or scarps in crest? **NO** **none observed**
    b. Is there any detectable sloughing or bulging? **NO** **none observed**
    c. Do slope erosion problems exist? **NO** **erosion conditions are minimal**
    d. Cracks or scarps in slope? **NO** **none observed**
    e. Surface movements? (valley bottom, hillsides) **NO** **none observed**
    f. Erosion of Toe? **NO** **none observed**
    g. Water impounded by structure? **NO** **none observed**
    h. Are diversion ditches stable? **YES** **appear reasonable**
    i. Is drainage positive? **YES** **surface runoff flows to collection ditches**
    j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
    k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
    l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2017 is attached. Analysis for 2018 material will be provided as an attachment to the 2019 report**

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

By: S. Scott Carlson, PE, Twin Peaks, P.C.
P.E. Number & State: 187727 UTAH
Affix Signature, Stamp and Date

REGISTERED PROFESSIONAL ENGINEER # 187727 S. SCOTT CARLSON 1/2019 STATE OF UTAH

APPENDIX A
CERTIFIED REPORTS

EXCESS SPOIL DISPOSAL AREA #2

SOIL SAMPLE ANALYTICAL RESULTS

BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory

244 WIDB

Provo, UT 84602

801-422-2147

Plant and Wildlife Sciences Department

Name SCA

Street One Power Plant Rd

Sunnyside (City) UT (State) 84539 (Zip)

SAMPLE TEST REPORT AND RECOMMENDATIONS

Date: 15-Mar-19

Telephone: 435.888.4476

Fax: 1788

Sample Identification	Crop to be grown	pH	% Sand	% Silt	% Clay	Soil Texture	Cation Exchange meq/100g	% Organic Carbon
Rejects matreial: date sampled 12/3/18		6.65						

Test	Results	Very Low	Low	Medium	High	Very High	Recommendations
Nitrate-Nitrogen ppm N	3.98	X					
Phosphorus ppm P	15.8	X					
Potassium ppm K	84.5	X					
Salinity-ECe dS/m	3.50			X			no salinity problem
Boron ppm B	3.65					X	no fertilizer needed
Selenium ppm Se	<MDL						
SAR-Sodium Absorption Ratio	0.54	X					no sodium hazard
Calcium-SAR ppm Ca	33.7						
Potassium SAR ppm K	25.3						
Magnesium SAR ppm Mg	28.9						
Sodium SAR ppm Na	70.7						
Sulfur % pyritic S	0.59	X					
Acid Potential tons CaCO3/1000 tons	18.4						
Ca Carbonate %CaCO3	BDL						
Neutralization Pot. tons CaCO3/1000 tons	BDL						
Acid Base Potential tons CaCO3/1000 tons	NA						

Notes:

BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory
244 WIDB
Provo, UT 84602
801-422-2147

Plant and Wildlife Sciences Department

Name SCA
Street One Power Plant Rd
Sunnyside UT 84539
City State Zip

SAMPLE TEST REPORT AND RECOMMENDATIONS

Date: 15-Mar-19
Telephone: 435.888.4476
Fax: 1788

Sample Identification	Crop to be grown	pH	% Sand	% Silt	% Clay	Soil Texture	Cation Exchange meq/100g	% Organic Carbon
Soil: date sampled 2/7/19		7.46						

Test	Results	Very Low	Low	Medium	High	Very High	Recommendations
Nitrate-Nitrogen ppm N	2.36	X					
Phosphorus ppm P	2.34	X					
Potassium ppm K	43.8	X					
Salinity-ECe dS/m	2.60		X				no salinity problem
Boron ppm B	2.95					X	no fertilizer needed
Selenium ppm Se	<MDL						
SAR-Sodium Absorption Ratio	0.98	X					no sodium hazard
Calcium-SAR ppm Ca	33.1						
Potassium SAR ppm K	4.94						
Magnesium SAR ppm Mg	13.2						
Sodium SAR ppm Na	6.62						
Sulfur % pyritic S	0.02	X					
Acid Potential tons CaCO3/1000 tons	0.48						
Ca Carbonate %CaCO3	11.7						
Neutralization Pot. tons CaCO3/1000 tons	117						
Acid Base Potential tons CaCO3/1000 tons	117						Good

Notes:

APPENDIX B
WATER MONITORING

APPENDIX B
WATER MONITORING

FIRST QUARTER

Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

April 23, 2018

Daron Haddock
Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

Subject: Quarterly Sampling Report
Monitoring Period: January, February, March 2018
DOGM Operational Water Monitoring

Dear Daron:

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,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: First Quarter 2018
Samples taken March 13, 2018

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
Columbia Dugway Spring	F-2	4.29	8.47	1742	11	5	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	6.2	7.39	7312	11	15	2
Dragerton Well	Well-1	NW	NW	NW	NW	NW	NW
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

Analysis Report

March 29, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	CRB	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Mar 13, 2018	Sample Taken At:	CRB
Date Received:	Mar 14, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	830
		Time Received:	1030
		Mine:	27
		Site:	9
		Field - pH:	7.39 pH
		Field - Dis. Oxygen:	11 mg/L
		Field - Flow:	15 gpm
		Field - Conductivity:	7312 umhos/cm
		Field - Temperature:	6.2 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received.

SGS Minerals Sample ID: 782-1802536-001

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	2706	mg/L	SM2340-B	1	2018-03-27	13:52:00	KN
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2018-03-21	09:00:00	CH
Cations	102.96	meq/L	SM1030E	0	2018-03-27	13:52:00	KN
Anions	111.07	meq/L	SM1030E	0	2018-03-27	13:52:00	KN
Balance	-3.79	%	SM1030E	-10	2018-03-27	13:52:00	KN
Alkalinity, mg CaCO3/L (pH 4.5)	406	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
Bicarbonate Alkalinity as CaCO3	406	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
pH	8.15		SM4500-H	0.01	2018-03-16	07:55:00	HL
pH Temperature	19.00	°C	SM4500-H	0.01	2018-03-16	07:55:00	HL
Settleable Solids	<0.1	mL/L	SM2540-F a	0.1	2018-03-14	11:19:00	BP
Total Dissolved Solids	7472	mg/L	SM2540-C	30	2018-03-19	11:00:00	BP
Total Suspended Solids	<5	mg/L	SM2540-D	5	2018-03-19	11:00:00	BP
Chloride, Cl	187	mg/L	EPA 300.0	1	2018-03-20	14:00:00	CH
Sulfate, SO4	4693	mg/L	EPA 300.0	1	2018-03-20	14:00:00	CH
METALS BY ICP							
Calcium, Ca - Dissolved	396.60	mg/L	EPA 200.7	0.03	2018-03-16	19:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

March 29, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	CRB	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Mar 13, 2018	Sample Taken At:	CRB
Date Received:	Mar 14, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	830
		Time Received:	1030
		Mine:	27
		Site:	9
		Field - pH:	7.39 pH
		Field - Dis. Oxygen:	11 mg/L
		Field - Flow:	15 gpm
		Field - Conductivity:	7312 umhos/cm
		Field - Temperature:	6.2 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received.

SGS Minerals Sample ID: 782-1802536-001

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.05	2018-03-16	19:38:00	KN
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2018-03-16	19:38:00	KN
Magnesium, Mg - Dissolved	416.60	mg/L	EPA 200.7	0.01	2018-03-16	19:38:00	KN
Manganese, Mn - Total	<0.002	mg/L	EPA 200.7	0.002	2018-03-16	19:38:00	KN
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	2018-03-16	19:38:00	KN
Potassium, K - Dissolved	76.63	mg/L	EPA 200.7	0.14	2018-03-16	19:38:00	KN
Sodium, Na - Dissolved	1079.00	mg/L	EPA 200.7	0.09	2018-03-16	19:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

March 29, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	F2	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Mar 13, 2018	Sample Taken At:	F2
Date Received:	Mar 14, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	915
		Time Received:	1030
		Mine:	27
		Site:	11
		Field - pH:	8.47 pH
		Field - Dis. Oxygen:	11mg/L
		Field - Flow:	5 gpm
		Field - Conductivity:	1742 umhos/cm
		Field - Temperature:	4.29 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received.

SGS Minerals Sample ID: 782-1802536-002

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	668	mg/L	SM2340-B	1	2018-03-27	13:52:00	KN
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2018-03-21	09:00:00	CH
Cations	21.39	meq/L	SM1030E	0	2018-03-27	13:52:00	KN
Anions	21.94	meq/L	SM1030E	0	2018-03-27	13:52:00	KN
Balance	-1.28	%	SM1030E	-10	2018-03-27	13:52:00	KN
Alkalinity, mg CaCO3/L (pH 4.5)	411	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
Bicarbonate Alkalinity as CaCO3	403	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
Carbonate Alkalinity as CaCO3	8	mg/L	SM2320-B	5	2018-03-19	13:45:00	HL
pH	8.33		SM4500-H	0.01	2018-03-16	07:58:00	HL
pH Temperature	18.80	°C	SM4500-H	0.01	2018-03-16	07:58:00	HL
Settleable Solids	<0.1	mL/L	SM2540-F a	0.1	2018-03-14	11:20:00	BP
Total Dissolved Solids	1304	mg/L	SM2540-C	30	2018-03-19	11:00:00	BP
Total Suspended Solids	<5	mg/L	SM2540-D	5	2018-03-19	11:00:00	BP
Chloride, Cl	45	mg/L	EPA 300.0	1	2018-03-20	14:00:00	CH
Sulfate, SO4	599	mg/L	EPA 300.0	1	2018-03-20	14:00:00	CH
METALS BY ICP							
Calcium, Ca - Dissolved	96.70	mg/L	EPA 200.7	0.03	2018-03-16	19:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

March 29, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	F2	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Mar 13, 2018	Sample Taken At:	F2
Date Received:	Mar 14, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	915
		Time Received:	1030
		Mine:	27
		Site:	11
		Field - pH:	8.47 pH
		Field - Dis. Oxygen:	11mg/L
		Field - Flow:	5 gpm
		Field - Conductivity:	1742 umhos/cm
		Field - Temperature:	4.29 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received.

SGS Minerals Sample ID: 782-1802536-002

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Total	0.28	mg/L	EPA 200.7	0.05	2018-03-16	19:38:00	KN
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2018-03-16	19:38:00	KN
Magnesium, Mg - Dissolved	103.70	mg/L	EPA 200.7	0.01	2018-03-16	19:38:00	KN
Manganese, Mn - Total	0.021	mg/L	EPA 200.7	0.002	2018-03-16	19:38:00	KN
Manganese, Mn - Dissolved	0.006	mg/L	EPA 200.7	0.002	2018-03-16	19:38:00	KN
Potassium, K - Dissolved	4.89	mg/L	EPA 200.7	0.14	2018-03-16	19:38:00	KN
Sodium, Na - Dissolved	181.80	mg/L	EPA 200.7	0.09	2018-03-16	19:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

APPENDIX B
WATER MONITORING

SECOND QUARTER

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

July 11, 2018

Daron Haddock
Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

Subject: Quarterly Sampling Report
Monitoring Period: April, May and June 2018
DOGM Operational Water Monitoring

Dear Daron:

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,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: Second Quarter 2018
Samples taken June 4, 2018

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	2
Columbia Dugway Spring	F-2	12.8	8.4	1844	11	4	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	12.7	8.09	7310	7.7	15	2
Dragerton Well	Well-1	NW	NW	NW	NW	NW	NW
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

Analysis Report

June 18, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	F2	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Jun 4, 2018	Sample Taken At:	F2
Date Received:	Jun 5, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	945
		Time Received:	1018
		Mine:	27
		Site:	11
		Field - pH:	8.40 pH
		Field - Dis. Oxygen:	11.0 mg/L
		Field - Flow:	4 gpm
		Field - Conductivity:	1844 umhos/cm
		Field - Temperature:	12.8 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received

SGS Minerals Sample ID: 782-1805240-001

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	744	mg/L	SM2340-B	1	2018-06-18	12:43:00	KN
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2018-06-13	08:20:00	HL
Cations	23.50	meq/L	SM1030E	0	2018-06-18	12:43:00	KN
Anions	24.28	meq/L	SM1030E	0	2018-06-18	12:43:00	KN
Balance	-1.63	%	SM1030E	-10	2018-06-18	12:43:00	KN
Alkalinity, mg CaCO3/L (pH 4.5)	474	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
Bicarbonate Alkalinity as CaCO3	462	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
Carbonate Alkalinity as CaCO3	12	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
pH	8.23		SM4500-H	0.01	2018-06-05	12:00:00	HL
pH Temperature	19.80	°C	SM4500-H	0.01	2018-06-05	12:00:00	HL
Settleable Solids	<0.1	mL/L	SM2540-F a	0.1	2018-06-05	11:30:00	HL
Total Dissolved Solids	1404	mg/L	SM2540-C	30	2018-06-07	11:00:00	BP
Total Suspended Solids	18	mg/L	SM2540-D	5	2018-06-07	11:00:00	BP
Chloride, Cl	47	mg/L	EPA 300.0	1	2018-06-08	14:23:00	HL
Sulfate, SO4	646	mg/L	EPA 300.0	1	2018-06-08	14:23:00	HL
METALS BY ICP							
Calcium, Ca Dissolved	106.60	mg/L	EPA 200.7	0.03	2018-06-13	08:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

June 18, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	F2	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Jun 4, 2018	Sample Taken At:	F2
Date Received:	Jun 5, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	945
		Time Received:	1018
		Mine:	27
		Site:	11
		Field - pH:	8.40 pH
		Field - Dis. Oxygen:	11.0 mg/L
		Field - Flow:	4 gpm
		Field - Conductivity:	1844 umhos/cm
		Field - Temperature:	12.8 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received

SGS Minerals Sample ID: 782-1805240-001

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	ANALYZED TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Total	0.56	mg/L	EPA 200.7	0.05	2018-06-13	08:38:00	KN
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2018-06-13	08:38:00	KN
Magnesium, Mg - Dissolved	116.00	mg/L	EPA 200.7	0.01	2018-06-13	08:38:00	KN
Manganese, Mn - Total	0.054	mg/L	EPA 200.7	0.002	2018-06-13	08:38:00	KN
Manganese, Mn - Dissolved	0.021	mg/L	EPA 200.7	0.002	2018-06-13	08:38:00	KN
Potassium, K - Dissolved	4.66	mg/L	EPA 200.7	0.14	2018-06-13	08:38:00	KN
Sodium, Na - Dissolved	195.80	mg/L	EPA 200.7	0.09	2018-06-13	08:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

June 18, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	CRB	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Jun 4, 2018	Sample Taken At:	CRB
Date Received:	Jun 5, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	930
		Time Received:	1018
		Mine:	27
		Site:	9
		Field - pH:	8.09 pH
		Field - Dis. Oxygen:	7.7 mg/L
		Field - Flow:	15 gpm
		Field - Conductivity:	7310 umhos/cm
		Field - Temperature:	12.7 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received

SGS Minerals Sample ID: 782-1805240-002

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
Hardness, mg equivalent CaCO3/L	109	mg/L	SM2340-B	1	2018-06-18	12:43:00	KN
Oil and Grease, (HEM)	<5	mg/L	EPA 1664A	5	2018-06-13	08:20:00	HL
Cations	109.06	meq/L	SM1030E	0	2018-06-18	12:43:00	KN
Anions	106.20	meq/L	SM1030E	0	2018-06-18	12:43:00	KN
Balance	1.33	%	SM1030E	-10	2018-06-18	12:43:00	KN
Alkalinity, mg CaCO3/L (pH 4.5)	405	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
Bicarbonate Alkalinity as CaCO3	405	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
Carbonate Alkalinity as CaCO3	<5	mg/L	SM2320-B	5	2018-06-05	15:16:00	KN
pH	8.11		SM4500-H	0.01	2018-06-05	12:00:00	HL
pH Temperature	19.20	°C	SM4500-H	0.01	2018-06-05	12:00:00	HL
Settleable Solids	<0.1	mL/L	SM2540-F a	0.1	2018-06-05	11:30:00	HL
Total Dissolved Solids	7602	mg/L	SM2540-C	30	2018-06-07	11:00:00	BP
Total Suspended Solids	<5	mg/L	SM2540-D	5	2018-06-07	11:00:00	BP
Chloride, Cl	191	mg/L	EPA 300.0	1	2018-06-08	14:23:00	HL
Sulfate, SO4	4453	mg/L	EPA 300.0	1	2018-06-08	14:23:00	HL
METALS BY ICP							
Calcium, Ca - Dissolved	422.60	mg/L	EPA 200.7	0.03	2018-06-13	08:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

SGS

Analysis Report

June 18, 2018

SUNNYSIDE COGENERATION FAC
PO BOX 10
EAST CARBON UT 84520

ATTN: RUSTY NETZ

Client Sample ID:	CRB	Sample ID By:	Sunnyside Cogeneration
Date Sampled:	Jun 4, 2018	Sample Taken At:	CRB
Date Received:	Jun 5, 2018	Sample Taken By:	RCS
Product Description:	WATER	Time Sampled:	930
		Time Received:	1018
		Mine:	27
		Site:	9
		Field - pH:	8.09 pH
		Field - Dis. Oxygen:	7.7 mg/L
		Field - Flow:	15 gpm
		Field - Conductivity:	7310 umhos/cm
		Field - Temperature:	12.7 Deg C

Comments: Dissolved Metals Filtered at Lab, pH expired when received

SGS Minerals Sample ID: 782-1805240-002

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	ANALYZED DATE	TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.05	2018-06-13	08:38:00	KN
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.03	2018-06-13	08:38:00	KN
Magnesium, Mg - Dissolved	458.10	mg/L	EPA 200.7	0.01	2018-06-13	08:38:00	KN
Manganese, Mn - Total	0.002	mg/L	EPA 200.7	0.002	2018-06-13	08:38:00	KN
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	2018-06-13	08:38:00	KN
Potassium, K - Dissolved	86.92	mg/L	EPA 200.7	0.14	2018-06-13	08:38:00	KN
Sodium, Na - Dissolved	1105.00	mg/L	EPA 200.7	0.09	2018-06-13	08:38:00	KN

Kaitlyn Natelli
Lead Lab Tech

SGS North America Inc. | Minerals Services Division
2035 North Airport Road Huntington UT 84528 t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

APPENDIX B
WATER MONITORING

THIRD QUARTER

October 15, 2018

Daron Haddock
Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

Subject: Quarterly Sampling Report
Monitoring Period: July, August and September 2018
DOGM Operational Water Monitoring

Dear Daron:

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,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: Third Quarter 2018
Samples taken August 27, 2018

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	2
Columbia Dugway Spring	F-2	NW	NW	NW	NW	NW	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	NW	NW	NW	NW	NW	2
Dragerton Well	Well-1	NW	NW	NW	NW	NW	NW
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

APPENDIX B
WATER MONITORING

FOURTH QUARTER

Sunnyside Operations Associates L.P.

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

January 3, 2019

Daron Haddock
Division of Oil, Gas & Mining
1594 W. North Temple, Suite 1210
Salt Lake City, Utah 84116

Subject: Quarterly Sampling Report
Monitoring Period: October, November and December 2018
DOGM Operational Water Monitoring

Dear Daron:

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,

Gerald Hascall
Agent For
Sunnyside Cogeneration Associates

c.c. Rusty Netz
Plant File

Sunnyside Cogeneration Facility
Sunnyside, Utah

Field Parameter Data

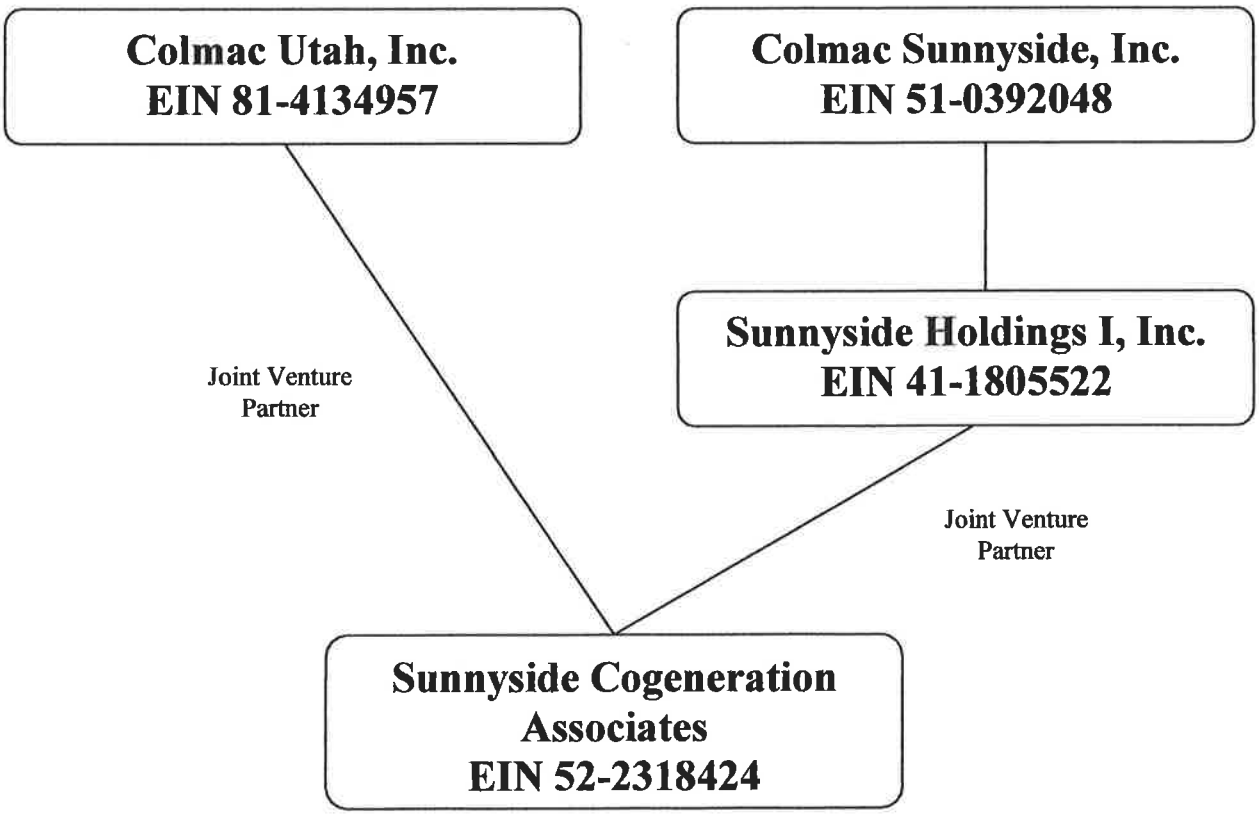
DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: Fourth Quarter 2018
Samples taken November 27, 2018

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	2
Columbia Dugway Spring	F-2	NW	NW	NW	NW	NW	2
Coarse Refuse Seep Source	CRS	NA	NA	NA	NA	NA	NA
Coarse Refuse Seep Boundary	CRB	NW	NW	NW	NW	NW	2
Dragerton Well	Well-1	NW	NW	NW	NW	NW	NW
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

APPENDIX C
DEPARTMENT OF COMMERCE
CERTIFICATES OF EXISTENCE

Sunnyside Cogeneration Associates
Figure 1-7
Information Regarding "Owners" and "Controllers"
Permit No. C/007/035



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

03/28/2019
4911242-015003282019-2365353

CERTIFICATE OF EXISTENCE

Registration Number:	4911242-0150
Business Name:	SUNNYSIDE COGENERATION ASSOCIATES
Registered Date:	April 24, 2001
Entity Type:	DBA
Status:	Current

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 (unless Delinquent); and, that Articles of Dissolution have not been filed.

Jason Sterzer
Director
Division of Corporations and Commercial Code

Registered Principals

Name	Type	City	Status
SUNNYSIDE COGENERATION ASSOCIATES	DBA	EAST CARBON CITY	Active

Position	Name	Address	
Applicant	COLMAC UTAH, INC.	1105 N MARKET STREET	WILMINGTON DE 19801
Applicant	SUNNYSIDE HOLDINGS I, INC.	1105 N MARKET STREET	WILMINGTON DE 19801
Registered Agent	BRIAN W BURNETT	50 E SOUTH TEMPLE ST	SALT LAKE CITY UT 84111

If you believe there may be more principals, click here to View Filed Documents

SUNNYSIDE COGENERATION ASSOCIATES

Update this Business

Entity Number: 4911242-0150
Company Type: DBA
Address: ONE POWER PLANT RD PO BOX 10 EAST CARBON CITY, UT 84520
State of Origin:
Registered Agent: BRIAN W BURNETT
Registered Agent Address:
50 E SOUTH TEMPLE ST STE 400
SALT LAKE CITY, UT 84111

View Management Team

Status: Active

Purchase Certificate of Existence

Status: Active *as of 04/24/2001*
Renew By: 04/30/2022
Status Description: Current
The "Current" status represents that a renewal has been filed, within the most recent renewal period, with the Division of Corporations and Commercial Code.
Employment Verification: Not Registered with Verify Utah

History

View Filed Documents

Registration Date: 04/24/2001
Last Renewed: 02/19/2019

Additional Information

NAICS Code: 2211 **NAICS Title:** 2211-Electric Power Generation, Transmis

<< Back to Search Results

Search by: Business Name | Number | Executive Name | Search Hints

Business Name:

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

03/28/2019
10140172-014303282019-2945803

CERTIFICATE OF EXISTENCE

Registration Number:	10140172-0143
Business Name:	COLMAC UTAH, INC.
Registered Date:	October 25, 2016
Entity Type:	Corporation - Foreign - Profit
Status:	Current

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 (unless Delinquent); and, that Articles of Dissolution have not been filed.

Jason Sterzer
Director
Division of Corporations and Commercial Code

Registered Principals

Name	Type	City	Status
COLMAC UTAH, INC.	Corporation	Wilmington	Active

Position	Name	Address	
Registered Agent	ALL-SEARCH & INSPECTION, INC.	1108 E SOUTH UNION AVE	Midvale UT 84047
Treasurer	ROBERT S MCLEESE	1105 N MARKET ST STE 650	Wilmington DE 19801
Director	ROBERT S MCLEESE	1105 N MARKET ST STE 650	Wilmington DE 19801
Director	CHRIS L THOMPSON	1105 N MARKET ST STE 650	Wilmington DE 19801
President	CHRIS L THOMPSON	1105 N MARKET ST STE 650	Wilmington DE 19801

If you believe there may be more principals, click here to View Filed Documents

COLMAC UTAH, INC.

Update this Business

Entity Number: 10140172-0143
Company Type: Corporation - Foreign - Profit
Address: 1105 N MARKET ST STE 650 Wilmington, DE 19801
State of Origin: DE
Registered Agent: ALL-SEARCH & INSPECTION, INC.
Registered Agent Address:
1108 E SOUTH UNION AVE
Midvale, UT 84047

View Management Team

Status: Active

Purchase Certificate of Existence

Status: Active *as of 10/25/2016*
Renew By: 10/31/2019
Status Description: Current
The "Current" status represents that a renewal has been filed, within the most recent renewal period, with the Division of Corporations and Commercial Code.
Employment Verification: Not Registered with Verify Utah

History

View Filed Documents

Registration Date: 10/25/2016
Last Renewed: 09/05/2018

Additional Information

NAICS Code: 9999 **NAICS Title:** 9999-Nonclassifiable Establishment

<< Back to Search Results

Search by: Business Name | Number | Executive Name | Search Hints

Business Name:

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

03/28/2019
1215877-014303282019-93564

CERTIFICATE OF EXISTENCE

Registration Number:	1215877-0143
Business Name:	SUNNYSIDE HOLDINGS I, INC.
Registered Date:	December 30, 1994
Entity Type:	Corporation - Foreign - Profit
Status:	Current

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 (unless Delinquent); and, that Articles of Dissolution have not been filed.

Jason Sterzer
Director
Division of Corporations and Commercial Code

Registered Principals

Name	Type	City	Status
SUNNYSIDE HOLDINGS I, INC.	Corporation	WILMINGTON	Active

Position	Name	Address	
Registered Agent	CT CORPORATION SYSTEM	1108 E SOUTH UNION AVE	Midvale UT 84047
Director	ROBERT S MCLEESE	1105 N MARKET ST	WILMINGTON DE 19801
President	CHRIS L THOMPSON	1105 N MARKET STREET	WILMINGTON DE 19801

If you believe there may be more principals, click here to View Filed Documents

Business Name:

SUNNYSIDE HOLDINGS I, INC.

Update this Business

Entity Number: 1215877-0143
Company Type: Corporation - Foreign - Profit
Address: 1105 N MARKET STREET STE 650 WILMINGTON, DE 19801
State of Origin: DE
Registered Agent: CT CORPORATION SYSTEM
Registered Agent Address:
1108 E SOUTH UNION AVE
Midvale, UT 84047

View Management Team

Status: Active

Purchase Certificate of Existence

Status: Active *as of 02/28/2011*
Renew By: 12/31/2019
Status Description: Current
The "Current" status represents that a renewal has been filed, within the most recent renewal period, with the Division of Corporations and Commercial Code.
Employment Verification: Not Registered with Verify Utah

History

View Filed Documents

Registration Date: 12/30/1994
Last Renewed: 10/30/2018

Additional Information

NAICS Code: 5617 **NAICS Title:** 5617-Services to Buildings and Dwellings

Doing Business As

SUNNYSIDE COGENERATION ASSOCIATES

Former Business Names

NRG SUNNYSIDE INC.

<< Back to Search Results

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

03/28/2019
10229118-014303282019-3358765

CERTIFICATE OF EXISTENCE

Registration Number:	10229118-0143
Business Name:	COLMAC SUNNYSIDE SERVICES, INC
Registered Date:	January 17, 2017
Entity Type:	Corporation - Foreign - Profit
Status:	Current

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 (unless Delinquent); and, that Articles of Dissolution have not been filed.

Jason Sterzer
Director
Division of Corporations and Commercial Code

Registered Principals

Name	Type	City	Status
COLMAC SUNNYSIDE SERVICES, INC	Corporation	Wilmington	Active

Position	Name	Address	
Registered Agent	ALL-SEARCH & INSPECTION, INC.	1108 E SOUTH UNION AVE	Midvale UT 84047
Treasurer	ROBERT S MCLEESE	1105 N MARKET ST STE 650	Wilmington DE 19801
Director	ROBERT S MCLEESE	1105 N MARKET ST STE 650	Wilmington DE 19801
Director	CHRIS L THOMPSON	1105 N MARKET ST STE 650	Wilmington DE 19801
President	CHRIS L THOMPSON	1105 N MARKET ST STE 650	Wilmington DE 19801

If you believe there may be more principals, click here to View Filed Documents

COLMAC SUNNYSIDE SERVICES, INC

Update this Business

Entity Number: 10229118-0143
Company Type: Corporation - Foreign - Profit
Address: 1105 N MARKET ST STE 650 Wilmington, DE 19801
State of Origin: DE
Registered Agent: ALL-SEARCH & INSPECTION, INC.
Registered Agent Address:
1108 E SOUTH UNION AVE
Midvale, UT 84047

View Management Team

Status: Active

Purchase Certificate of Existence

Status: Active *as of 03/05/2018*
Renew By: 01/31/2020
Status Description: Current
The "Current" status represents that a renewal has been filed, within the most recent renewal period, with the Division of Corporations and Commercial Code.
Employment Verification: Not Registered with Verify Utah

History

View Filed Documents

Registration Date: 01/17/2017
Last Renewed: 12/10/2018

Additional Information

NAICS Code: 9999 **NAICS Title:** 9999-Nonclassifiable Establishment

<< Back to Search Results

Search by: Business Name | Number | Executive Name | Search Hints

Business Name:

APPENDIX D
MINE MAP

As required under R645-302-525-270

NOTES:

1. CONTOURS SHOWN HERE ARE BASED ON A FLIGHT OF 4 / 2017

2. TICK MARKS PROVIDE A CUT (-) OR FILL (+) VALUES COMPARING 4 / 2017 ELEVATIONS WITH APPROXIMATE BOTTOM OF PILE

3. 2018 MINING EXCAVATION OCCURRED WITHIN THE AREA OUTLINED IN RED

4. 2019-23 MINING EXCAVATION EXPECTED WITHIN THE AREA OUTLINED IN GREEN

ADJACENT LAND OWNER: EAST CARBON CITY

ADJACENT LAND OWNER: SUNNYSIDE COGENERATION ASSOCIATES

ADJACENT LAND OWNER: SUNNYSIDE PROPERTIES, LLC

SCA NEW RESERVOIR

COAL FIRED SED POND

PASTURE POND

SPOIL AREA #2 PHASE 1 (RECLAIMED)

SPOIL AREA #2 PHASE 2 (ACTIVE)

SPOIL AREA #2 PHASE 3 AREA (FUTURE)

REFUSE AREA

BORROW AREA POND

SPOIL AREA #1

SCA#2 ASH LANDFILL

OCUP POND

ADJACENT LAND OWNER: HISTORICAL PROPERTIES INC

ADJACENT LAND OWNER: SCA

ADJACENT LAND OWNER: UNITED STATES OF AMERICA (B.L.M.)

LAND OWNER: COVOL TECHNOLOGIES, INC.

ADJACENT LAND OWNER: LEVADA EF FIVE LLC

SW 1/4 SECTION 5

ADJACENT LAND OWNER: SCA

ADJACENT LAND OWNER: SCA

ADJACENT LAND OWNER: SCA

SECTION LINE

LAND OWNER: UNITED STATES OF AMERICA (B.L.M.)

NW 1/4 SECTION 8

GRAPHIC SCALE
0' 100' 200' 400' 600'
Scale: 1" = 200'
(when plotted at 24x36 size)

Electronically signed by S. Scott Carlson 387570

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

SUNNYSIDE COGEN. ASSOCIATES

SUNNYSIDE REFUSE/SLURRY MINE MAP

Carbon County, Utah

TWIN PEAKS
Engineering & Land Surveying
2264 NORTH 1450 EAST LEHI, UTAH 84043
(801) 450-3511

DWG DATE: March 2019

PLOT DATE: 28 March 2019

SHEET 1 OF 1