



Sunnyside Cogeneration Associates

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

January 17, 2023

Doug Taylor
Solid Waste Program Manager
195 North 1950 West
Salt Lake City, Utah 84116

RE: Sunnyside Cogeneration Associates (SCA)
SCA #2 Ash Landfill
CCR Annual Ground Water Report

Dear Mr. Taylor:

Please find attached SCA's CCR Annual Ground Water Report. Monitoring wells MW-8, MW-9, MW-10 and MW-11, were sampled on June 14, 2022 and December 14, 2022, in accordance with Federal regulations under 40CFR 257 and State regulations under R315-319.

Water samples were collected at MW-8 only, since MW-9, MW-10 and MW-11 were dry wells. MW-8 sampling results were well within permit protection limits.

SCA will post this annual report on its CCR web site.

Enclosures:

<u>Table 1:</u>	CCR Ground Water Analysis for year 2022
<u>Table 2:</u>	CCR Monitoring Well Parameters for year 2022

SCA #2 Ash Landfill
CCR Annual Ground Water Report
Page 2:

If you have any questions regarding the sampling activities or this report, please contact Rusty Netz or myself at (435) 888-4476.

Thank You,

A handwritten signature in blue ink, appearing to read "Gerald Hascall".

Gerald Hascall
Agent for
Sunnyside Cogeneration Associates

Cc: Rusty Netz
Plant File

CCR Monitoring Wells



Legend
Wells

Google Earth

500 ft

TABLE 1

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling

First half of 2022
Sampling Date: 6/14/22

Sample Location	Field Parameters				Metals(mg/l)					
	Temp. (C)	pH (S.U.)	SC (umhos)	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
Permit Background Values	N.A.	N.A.	N.A.	0.35	422	251	0.6	7.2	6743	11013
Permit Protection Levels	N.A.	N.A.	N.A.	0.46	510.70	394.2	1.42	7.98	7988	12659
MW-8	12.3	6.89	8852	ND	297	215	0.2	7.5	4870	7710
MW-9	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-11	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW

NW= No water present in well
NA= Non-Applicable
ND=NoN-Detect

TABLE 2

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling First Half 2022

Date: June 14, 2022
 GROUND WATER WELLS:
 Casing Diameter (inches) 2
 Casing Type: PVC

LOCATION	Monitoring Well	Personnel	Weather	Static Water Level (ft.)	Total Well Depth (ft.)	Calculated Purge Volume (gals.)	Purge Method	Purge Volume (gals.)	Field Parameters		
									Temp. (C)	pH (su)	SC (um)
SCA #2 Ash Landfill	MW-8	R. Netz	Clear	17.4	50.0	15.64	PUMP	15.0	12.3	6.89	8852
SCA #2 Ash Landfill	MW-9	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-10	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-11	R. Netz	Clear	NW	65.0	NW	NW	NW	NW	NW	NW

Purge volume (gallons) = ((well depth-static water level)/25) x (casing dia.)² x 3

NW- NO Water Present in well

NS=No Sample Taken

TABLE 1

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling

Second half of 2022
Sampling Date: 12/14/22

Sample Location	Field Parameters				Metals(mg/l)					
	Temp. (C)	pH (S.U.)	SC (umhos)	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
Permit Background Values	N.A.	N.A.	N.A.	0.35	422	251	0.6	7.2	6743	11013
Permit Protection Levels	N.A.	N.A.	N.A.	0.46	510.70	394.2	1.42	7.98	7988	12659
MW-8	12.4	6.78	8419	0.27	292	208	0.23	7.3	4610	7680
MW-9	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-11	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW

NW= No water present in well
NA= Non-Applicable
ND=Non-Detect

TABLE 2

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling Second Half 2022

Date: December 14, 2022
 GROUND WATER WELLS:
 Casing Diameter (inches) 2
 Casing Type: PVC

LOCATION	Monitoring Well	Personnel	Weather	Static Water Level (ft.)	Total Well Depth (ft.)	Calculated Purge Volume (gals.)	Purge Method	Purge Volume (gals.)	Field Parameters		
									Temp. (C)	pH (su)	SC (um)
SCA #2 Ash Landfill	MW-8	R. Netz	Cold/clear	17.8	50.0	15.45	PUMP	15.0	12.4	6.78	8419
SCA #2 Ash Landfill	MW-9	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-10	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-11	R. Netz	Clear	NW	65.0	NW	NW	NW	NW	NW	NW

Purge volume (gallons) = ((well depth-static water level)/25) x (casing dia.)² x 3
 NW- NO Water Present in well
 NS=No Sample Taken



Chemtech-Ford Laboratories

Serving the Intermountain West Since 1953

9632 South 500 West
Sandy, UT 84070
O:(801) 262-7299 F: (866) 792-0093
www.ChemtechFord.com



Certificate of Analysis

Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520

PO#:
Receipt: 6/15/22 11:00 @ 14.8 °C
Date Reported: 6/28/2022
Project Name: CCR Sampling

Sample ID: MW-8

Matrix: Water

Date Sampled: 6/14/22 9:15

Sampled By: Client

Lab ID: 22F1268-01

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	215	mg/L	10.0	EPA 300.0	6/20/22	6/20/22	
Fluoride	0.2	mg/L	0.1	EPA 300.0	6/20/22	6/20/22	
pH	7.5	pH Units	0.1	SM 4500 H-B	6/15/22 14:38	6/15/22 15:19	SPH
Sulfate	4870	mg/L	100	EPA 300.0	6/20/22	6/21/22	
Total Dissolved Solids (TDS)	7710	mg/L	20	SM 2540 C	6/16/22	6/16/22	
Metals							
Boron, Total	ND	mg/L	0.50	EPA 200.7	6/23/22	6/23/22	
Calcium, Total	297	mg/L	2.0	EPA 200.7	6/23/22	6/23/22	



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Certificate of Analysis

**Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520**

PO#:
Receipt: 6/15/22 11:00 @ 14.8 °C
Date Reported: 6/28/2022
Project Name: **CCR Sampling**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL)

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

SPH = Sample submitted past method specified holding time.

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SunnySide
 ADDRESS: _____
 CITY/STATE/ZIP: 866-4476
 PHONE #: _____
 CONTACT: Rush note
 EMAIL: _____

BILLING ADDRESS: _____
 BILLING CITY/STATE/ZIP: _____
 PURCHASE ORDER #: _____

FAX: _____
 PROJECT: CCR Sampling



TURNAROUND REQUIRED: _____
* Turnaround times are based on the number of samples.

22F1268

Lab Use Only	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	TESTS REQUESTED	Notes
01	MW-8	6/14/22	915			added tests per history B.C. Cl. PH SO4 TDS
2						
3						
4						
5						
6						
7						
8						
9						
10						

CLIENT SAMPLE INFORMATION

Sample ID: _____
 Sample by: _____
 Date: _____
 Time: _____
 Matrix: _____

- Sample Receipt:**
- Custody Seals initials
 - COC Complete
 - Containers Intact Sample Volume OK
 - COC/Labels Linked Headspace Present (VOC)
 - Received on Ice Temp Blank
 - Correct Containers Within Hold Time
 - COC Included Checked by: _____

ON ICE NOT ON ICE Temp (C°): 14.8

Special Instructions:
 Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Received by (Signature): Rush
 Date: 6/14/22 11:45
 Received by (Signature): _____
 Date: _____



Certificate of Analysis

**Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520**

PO#:
Receipt: **12/15/22 12:30 @ 5.8 °C**
Date Reported: **12/22/2022**
Project Name: **CCR Samples**

Sample ID: **MW-8**

Matrix: **Water**

Lab ID: **22L1246-01**

Date Sampled: **12/14/22 10:00**

Sampled By: **Client**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	208	mg/L	100	EPA 300.0	12/15/22	12/16/22	
Fluoride	0.230	mg/L	0.100	EPA 300.0	12/15/22	12/16/22	
pH	7.3	pH Units	0.1	SM 4500 H-B	12/15/22 14:44	12/15/22 16:28	SPH
Sulfate	4610	mg/L	100	EPA 300.0	12/15/22	12/16/22	
Total Dissolved Solids (TDS)	7680	mg/L	20	SM 2540 C	12/15/22	12/15/22	
Metals							
Boron, Total	0.27	mg/L	0.05	EPA 200.7	12/19/22	12/20/22	
Calcium, Total	292	mg/L	0.2	EPA 200.7	12/19/22	12/20/22	

CHEMTECH - FORD ANALYTICAL LABORATORY

SCA

COMPANY: _____
 ADDRESS: _____
 CITY/STATE/ZIP: _____
 PHONE #: _____
 CONTACT: _____
 EMAIL: _____

BILLING ADDRESS: _____
 BILLING CITY/STATE/ZIP: _____
 PURCHASE ORDER #: _____

435-868-4476 FAX: _____
 Rusty PROJECT: CCR Samples

CHAIN OF CUSTODY



CHEMTECH-FORD
 ANALYTICAL SERVICES

TURNAROUND REQUIRED: *
 * Expedited turnaround subject to additional charge

CLIENT SAMPLE INFORMATION				TESTS REQUESTED		BACTERIA	
Lab Use Only	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Sample Number	Chain of Custody	Chain of Custody
01	MW-8	12/14/22	10:00				
2							
3							
4							
5							
6							
7							
8							
9							
10							

TRC, sulfate, pH
 Chloride, Fluoride
 * Client contacted about tests

Ag 1183 M1207

Sample - Insipient Conditions:
 () Heatspace Present (VOC)
 () Temperature Blank
 () Received within Hold
 Checked by: R

Efficient Sample Volume

Sampled by: [signature]

Received by: [signature]

Reinquinished by: [signature]

Reinquinished by: [signature]

Date/Time: 12/14/22 12:00

Date/Time: 12/15/22 12:30

Date/Time: _____

ON ICE NOT ON ICE Temp (C): 5.8

Samples received outside the EPA recommended temperature range of 0-6 C may be rejected.

CHEMTECH-FORD
 9632 South 500 West
 Sandy, UT 84070

Payment Terms are net 30 days OAC. 1.5% interest charge per month (1.8% per annum). Client agrees to pay collection costs and attorney's fees.

VPS 12E8-1214039965208