



Sunnyside Cogeneration Associates

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

February 17, 2011

Walter L. Baker
Division of Water Quality
195 North 1950 West
Salt Lake City, Utah 84116

RE: Sunnyside Cogeneration Associates(SCA)
Ash Leachate Sampling
Ground Water Permit No. UGW070002

Dear Mr. Baker:

Please find attached the ash leachate analysis pertaining to Sunnyside's Ash Landfill. The testing is in accordance with section E.5.d of SCA's Ground Water Permit, which requires ash leachate testing every five years. SCA is required to submit the ash leachate testing by June of 2011.

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

Thank You,

Richard Carter
Agent for
Sunnyside Cogeneration Associates

cc. Steve Gross
William Rossiter
Maggie Estrada
Paul Shepard
Rusty Netz
Plant File



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Certificate of Analysis

Lab Sample No.: 1100492-01

Name: Sunnyside Cogeneration	Sample Date: 12/12/2010 10:00 AM
Sample Site: Ash Composite Sample	Receipt Date: 1/19/2011 12:00 PM
Comments:	Sampler: Client
Sample Type: Solid	System No.:
Source Code:	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Alkalinity - Bicarbonate (Soluble)	ND	20.0	mg/kg	1/21/2011 15:00	TSM	EPA 325.2	
Alkalinity - Hydroxide (Soluble)	6530	20.0	mg/kg	1/21/2011 15:00	TSM	EPA 325.2	
Alkalinity - Carbonate (Soluble)	180	20.0	mg/kg	1/21/2011 15:00	TSM	EPA 325.2	
Chloride, Soluble (IC)	388	1000	mg/kg	1/21/2011 15:00	TSM	EPA 300.0	
pH	12.3	0.1	pH Units	1/26/2011 16:00	TJS	EPA 9045C	E
Sulfate, Soluble (IC)	10000	1000	mg/kg	1/21/2011 15:00	TSM	EPA 300.0	
Total Solids	85.6	0.1	%	1/20/2011 7:30	ECF	SM 2540G	SPH
Metals							
Calcium, Total	101000	20.1	mg/kg dry	1/21/2011 11:43	AKL	EPA 6010B	
Magnesium, Total	10200	20.1	mg/kg dry	1/21/2011 11:43	AKL	EPA 6010B	
Manganese, Total	90.6	0.504	mg/kg dry	1/21/2011 11:43	AKL	EPA 6010B	
Potassium, Total	6800	50.4	mg/kg dry	1/21/2011 11:43	AKL	EPA 6010B	
Sodium, Total	1520	50.4	mg/kg dry	1/21/2011 11:43	AKL	EPA 6010B	
TCLP Metals							
Arsenic, TCLP	0.26	0.50	mg/L	1/28/2011 9:42	MJB	EPA 6010B	J
Barium, TCLP	0.30	0.05	mg/L	1/28/2011 9:42	MJB	EPA 6010B	
Cadmium, TCLP	ND	0.050	mg/L	1/28/2011 9:42	MJB	EPA 6010B	
Chromium, TCLP	0.033	0.050	mg/L	1/28/2011 9:42	MJB	EPA 6010B	J
Copper, TCLP	0.005	0.050	mg/L	1/28/2011 9:42	MJB	EPA 6010B	J
Lead, TCLP	ND	0.20	mg/L	1/28/2011 9:42	MJB	EPA 6010B	
Mercury, TCLP	ND	0.0002	mg/L	1/31/2011 11:48	PNM	EPA 7470A	SPH
Selenium, TCLP	0.37	0.20	mg/L	1/28/2011 9:42	MJB	EPA 6010B	
Silver, TCLP	ND	0.05	mg/L	1/28/2011 9:42	MJB	EPA 6010B	
Zinc, TCLP	ND	0.10	mg/L	1/28/2011 9:42	MJB	EPA 6010B	



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Certificate of Analysis

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.

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.

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

E = The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).

CHEMTECH - FORD ANALYTICAL LABORATORY

COMPANY: SCA - Sunnyside Cogen
 ADDRESS: _____
 CITY/STATE/ZIP: _____
 PHONE #: _____ FAX: _____
 CONTACT: Rusty Netz PROJECT: ASH Pile
 EMAIL: _____

CHAIN OF CUSTODY

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

TURNAROUND REQUIRED: * _____

* Expedited turnaround subject to additional charge

Mark 'X' here if you want a copy sent to DEQ Division of Drinking Water.

Lab ID #	SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	SAMPLE SOURCE CODE	POINT CODE	MATRIX	ANALYTICAL TESTS REQUESTED				Bacteriological				REPEAT	SYSTEM #	
							FIELD: Residual Chlorine	Total Coliform + E. coli (Present/Absent)	Total Coliform + F. coli (Enumerated)	HPC (Plate Count)	E. coli only	Ww Total Coliform + Fecal Coliform	R = Routine	I = Investigative			TG = Trigger Source
00492	ASH Composite Sample	11/7/11	1600			Drinking Water Only											

ON ICE / NOT ON ICE

Special Instructions: See Attachment

Relinquished by: [signature]	Date/TIME: 11/7/11 1600	Received by: [signature]	Date/TIME: 1-19-11 12:00
Relinquished by: [signature]	Date/TIME:	Received by: [signature]	Date/TIME:
Relinquished by: [signature]	Date/TIME:	Received by: [signature]	Date/TIME:

CHEMTECH-FORD 6100 South Stralzer Street (360 West) Murray, UT 84107 Phone: 801-262-7299 FAX: 801-262-7378 www.chemtechford.com
 Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agrees to pay collection costs and attorney's fees.

402-4896
 K0659760266
 VS6625F UTSLC109 Jan 18 05 20 5
 US 8410 HTP 18 1 2 LP2044



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CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: 00492

Delivery Method: (circle one)

UPS FedEX USPS
 Walk-In Courier Chemtech

Sample(s) sealed: Yes / No

Appropriate container/preserve: Yes / No

Temperature 14°C

	Lab ID #	Bottle Type	Lot # (preservative)	No. of Subsample(s)	Preserved by client / third party	Preserved in Receiving/Laboratory	Vials submitted with headspace	Sample submitted past hold time	Filtered by client in field
1	-01	B							
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
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14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Comments:
 B = 5 Gallon Bucket

Bottle Type	
Plastic	Glass
A- Plastic Unpreserved	D- 625 (Na ₂ S ₂ O ₃)
B- Miscellaneous Plastic	G- Glass Unpreserved
C- Cyanide Qt (NaOH)	H- HAA _s (NH ₄ Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	J- 508/515/525 (Na ₂ SO ₃)
M- Metals Pint (HNO ₃)	O- Oil & Grease (1:1 HCl)
N- Nutrient Pint (H ₂ SO ₄)	P- Phenols (H ₂ SO ₄)
R- Radiological Gallon (HNO ₃)	T- TOC/TOX (H ₃ PO ₄)
S- Sludge Cups/Tubs	U- 531 (MCAA, Na ₂ S ₂ O ₃)
Q- Plastic Bags	V- 524/THMs (Ascorbic Acid)
E- Coliform/Ecoll	W- 8260 (1:1 HCl)
Additional Volumes	
X- Vial Unpreserved	
Q- quart 1/2pt- half pint	Y- 624/504 (Na ₂ S ₂ O ₃)
P- pint 1/2- half gallon	Z- Miscellaneous Glass