Keith E.

Sunnyside Cogeneration Associates

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

January 14, 2011

Keith Eagan
Division of Water Quality
288 North 1460 West
Sah Lake City, Utah 84116

RE: Sunnyside Cogeneration Associates
Semi-Annual Monitoring Reports
Ground Water Permit No. UGW070002

Dear Mr. Eagan:

Please find attached the sampling report for the July, August, September, October, November and December semi-annual monitoring period. Monitoring of the Ground Water Discharge Permit sampling locations was performed on November 30, 2010, in accordance with the Ground Water Quality Sampling Plan for Ground Water Discharge Permit Number UGW070002.

Results from the November 30, 2010, sampling event indicated that TDS concentrations were elevated in MW-7 and the selenium concentrations were slightly elevated in MW-3.

On January 3, 2011, SCA re-sampled MW-7 and MW-3, in accordance with permit condition II.F.1.a, to verify TDS and selenium concentrations. The TDS re-sampled results for MW-7 were well within permit limits. The selenium re-sample results in MW-3 continue to be slightly elevated above permit protection limits.

SCA believes that the elevated concentrations are attributed to naturally occurring background conditions and are not attributed to SCA's Ash Landfill. SCA addressed this issue in a report submitted to the UDWQ on January 25, 2005. The UDWQ concurred with the findings in the January report and agreed with SCA's future sampling approach.

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
Sumyside Cogeneration Associates

Enclosures:

Table 1:	Ground Water Analysis for the 2nd half of 2010
Table 2:	MW-7 Analysis-2nd half of 2010
Table 3:	MW-7 and MW-3 Re-Sampling Analysis
Attachment A:	Analytical Reports
Attachment B:	Re-Sampling Analytical Reports

Cc: Steve Gross
William Rossiter
Maggie Estrada
Paul Shepard
Rusty Netz
Plant File

TABLE 1

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
Second half 2010
Sampling Date: November 30, 2010

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.0036	0.0767	0.0031	0.012	0.007	0.0063	0.008	0.0624
Permit Protection Levels	N.A.	N.A.	N.A.	0.0125	0.50	0.0039	0.325	0.0088	0.0125	0.026	1.25
Whitmore Springs	0.6	8.56	1795	0.0005	0.028	ND	ND	0.0007	0.0024	ND	ND
Freshwater Reservoir	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Coal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Ash Disposal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Well MW-1	13.8	7.41	2930	0.0016	0.012	ND	ND	ND	0.0099	ND	ND
Well MW-2	11.7	7.59	1951	0.0007	0.021	ND	ND	0.0028	0.0123	ND	ND
Well MW-3	11.2	7.65	1618	ND	0.029	ND	ND	ND	0.0138	ND	ND
Well MW-4	15.1	7.5	2070	0.0006	0.05	ND	ND	0.0028	0.0019	ND	0.01

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	1677	8.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	3018	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Whitmore Springs	1520	8.1	107	757	208	4	119	47	648	556	ND	456
Freshwater Reservoir	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Coal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Ash Disposal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Well MW-1	2490	7.3	83.6	847	454	5.2	155	150	1130	648	ND	532
Well MW-2	1640	7.2	111	792	232	6.8	125	50	690	590	ND	484
Well MW-3	1250	7.2	97.3	663	186	6.4	102	41	434	626	ND	514
Well MW-4	1710	7.1	118	739	262	8.3	108	78	750	542	ND	444

A "<" sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this limit. were not quantifiable. These results should be considered non-detect.
NW= No water present in basin.
NA= Non-Applicable
BA=BI-Annually
NS=No Sample Taken
ND-Non Detect

TABLE 2

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
MW-7
Second half of 2010
Sampling Date: November 30, 2010

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.006	0.10	0.003	0.018	0.01	0.0167	0.0011	0.037
Permit Protection Levels	N.A.	N.A.	N.A.	0.025	1.00	0.0025	0.65	0.0075	0.025	0.05	2.5
MW-7	11.8	7.66	7240	0.0052	0.019	ND	ND	0.0006	0.0143	ND	ND

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	4289.8	7.979	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	5363	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MW-7	5890	7.6	40	241	1840	9.4	34.3	320	3120	888	12	748

A "<" sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this limit. were not quantifiable. These results should be considered non-detect.
NW= No water present in basin.
NA= Non-Applicable
BA=Bl-Annually
ND=NoN-Detect

TABLE 3

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
Re-Sampling event
Second half of 2010
Re Sampling Date: January 3, 2011

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.006	0.19	0.003	0.018	0.01	0.0167	0.0011	0.037
Permit Protection Levels	N.A.	N.A.	N.A.	0.025	1.00	0.0025	6.66	0.0075	0.0125	0.05	2.5
MW-3	11.3	7.59	1718	**	**	**	**	**	0.0153	**	**
MW-7	11.6	7.51	5850	**	**	**	**	**	**	**	**

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	4289.8	7.979	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	5363	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MW-3	**	**	**	**	**	**	**	**	**	**	**	**
MW-7	4830	**	**	**	**	**	**	**	**	**	**	**

** Only sampled for parameters that were above the permit protection levels.

Attachment A

Analytical Reports

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Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1009863-06

Name:	Sunnyside Cogeneration	**Sample Date:**	11/30/2010 11:30 AM
Sample Site:	WS	**Receipt Date:**	12/1/2010 11:00 AM
Comments:		**Sampler:**	Rusty Netz
Sample Type:	Wastewater	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	757	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	556	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	403	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	456	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	47	1	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	8.1	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	648	5	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1520	10	mg/L	12/6/2010 9:26	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0005	0.0005	mg/L	12/10/2010 10:50	ICP-M	EPA 200.8	
Barium, Total	0.028	0.005	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Calcium, Total	107	0.2	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:50	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Lead, Total	0.0007	0.0005	mg/L	12/10/2010 10:50	ICP-M	EPA 200.8	
Magnesium, Total	119	0.2	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Potassium, Total	4.0	0.5	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Selenium, Total	0.0024	0.0005	mg/L	12/10/2010 10:50	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:50	ICP-M	EPA 200.8	
Sodium, Total	208	0.5	mg/L	12/8/2010 13:30	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	12/8/2010 13:30	MJB	EPA 200.7	

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.

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Certificate of Analysis

Lab Sample No.: 1009863-02

Name: Sunnyside Cogeneration
Sample Site: MW-1
Comments:
Sample Type: Wastewater
Source Code:
Sample Date: 11/30/2010 9:50 AM
Receipt Date: 12/1/2010 11:00 AM
Sampler: Rusty Netz
System No.:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	847	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	648	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	470	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	532	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	150	10	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	7.3	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	1130	10	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	2490	10	mg/L	12/6/2010 9:18	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0016	0.0005	mg/L	12/10/2010 10:36	ICP-M	EPA 200.8	
Barium, Total	0.012	0.005	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Calcium, Total	83.6	0.2	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:36	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	12/10/2010 10:36	ICP-M	EPA 200.8	
Magnesium, Total	155	0.2	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Potassium, Total	5.2	0.5	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Selenium, Total	0.0099	0.0005	mg/L	12/10/2010 10:36	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:36	ICP-M	EPA 200.8	
Sodium, Total	454	0.5	mg/L	12/8/2010 13:13	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	12/8/2010 13:13	MJB	EPA 200.7	

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Certificate of Analysis

Lab Sample No.: 1009863-04

Name:	Sunnyside Cogeneration	**Sample Date:**	11/30/2010 10:30 AM
Sample Site:	MW-2	**Receipt Date:**	12/1/2010 11:00 AM
Comments:		**Sampler:**	Rusty Netz
Sample Type:	Wastewater	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	792	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	590	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	432	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	484	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	50	1	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	7.2	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	690	10	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1640	10	mg/L	12/6/2010 9:22	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0007	0.0005	mg/L	12/10/2010 10:43	ICP-M	EPA 200.8	
Barium, Total	0.021	0.005	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Calcium, Total	111	0.2	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:43	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Lead, Total	0.0028	0.0005	mg/L	12/10/2010 10:43	ICP-M	EPA 200.8	
Magnesium, Total	125	0.2	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Potassium, Total	6.8	0.5	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Selenium, Total	0.0123	0.0005	mg/L	12/10/2010 10:43	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:43	ICP-M	EPA 200.8	
Sodium, Total	232	0.5	mg/L	12/8/2010 13:21	MJB	EPA 200.7	
Zinc, Total	0.02	0.01	mg/L	12/8/2010 13:21	MJB	EPA 200.7	

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Certificate of Analysis

Lab Sample No.: 1009863-05

Name: Sunnyside Cogeneration
Sample Site: MW-3
Comments:
Sample Type: Wastewater
Source Code:
Sample Date: 11/30/2010 11:00 AM
Receipt Date: 12/1/2010 11:00 AM
Sampler: Rusty Netz
System No.:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	663	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	626	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	458	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	514	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	41	1	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	7.2	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	434	5	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1250	10	mg/L	12/6/2010 9:24	JSH	SM 2540 C	
Metals							
Arsenic, Total	ND	0.0005	mg/L	12/10/2010 10:46	ICP-M	EPA 200.8	
Barium, Total	0.029	0.005	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Calcium, Total	97.3	0.2	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:46	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	12/10/2010 10:46	ICP-M	EPA 200.8	
Magnesium, Total	102	0.2	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Potassium, Total	6.4	0.5	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Selenium, Total	0.0138	0.0005	mg/L	12/10/2010 10:46	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:46	ICP-M	EPA 200.8	
Sodium, Total	186	0.5	mg/L	12/8/2010 13:26	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	12/8/2010 13:26	MJB	EPA 200.7	

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Certificate of Analysis

Lab Sample No.: 1009863-03

Name:	Sunnyside Cogeneration	**Sample Date:**	11/30/2010 10:05 AM
Sample Site:	MW-4	**Receipt Date:**	12/1/2010 11:00 AM
Comments:		**Sampler:**	Rusty Netz
Sample Type:	Wastewater	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	739	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	542	2.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	2.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	395	2.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	2.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	444	2.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	78	1	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	7.1	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	750	10	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1710	10	mg/L	12/6/2010 9:20	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0006	0.0005	mg/L	12/10/2010 10:39	ICP-M	EPA 200.8	
Barium, Total	0.050	0.005	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Calcium, Total	118	0.2	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:39	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Lead, Total	0.0028	0.0005	mg/L	12/10/2010 10:39	ICP-M	EPA 200.8	
Magnesium, Total	108	0.2	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Potassium, Total	8.3	0.5	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Selenium, Total	0.0019	0.0005	mg/L	12/10/2010 10:39	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:39	ICP-M	EPA 200.8	
Sodium, Total	262	0.5	mg/L	12/8/2010 13:17	MJB	EPA 200.7	
Zinc, Total	0.01	0.01	mg/L	12/8/2010 13:17	MJB	EPA 200.7	

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CHEMTECH-FORD Laboratories
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Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1009863-01

Name:	Sunnyside Cogeneration	**Sample Date:**	11/30/2010 9:30 AM
Sample Site:	MW-7	**Receipt Date:**	12/1/2010 11:00 AM
Comments:		**Sampler:**	Rusty Netz
Sample Type:	Wastewater	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	241	1	mg/L	12/9/2010 9:00	MJB	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate	888	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate	12.0	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - CO2	654	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	748	1.0	mg/L	12/7/2010 8:00	TSM	SM 2320 B	
Chloride	320	20	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
pH	7.6	0.1	pH Units	12/1/2010 17:00	JSH	SM 4500 H-B	SPH
Sulfate	3120	20	mg/L	12/1/2010 13:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	5890	10	mg/L	12/6/2010 9:16	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0052	0.0005	mg/L	12/10/2010 10:33	ICP-M	EPA 200.8	
Barium, Total	0.019	0.005	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Calcium, Total	40.0	0.2	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	12/10/2010 10:33	ICP-M	EPA 200.8	
Copper, Total	ND	0.005	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Lead, Total	0.0006	0.0005	mg/L	12/10/2010 10:33	ICP-M	EPA 200.8	
Magnesium, Total	34.3	0.2	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Potassium, Total	9.4	0.5	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Selenium, Total	0.0143	0.0005	mg/L	12/10/2010 10:33	ICP-M	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	12/10/2010 10:33	ICP-M	EPA 200.8	
Sodium, Total	1840	0.5	mg/L	12/8/2010 13:08	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	12/8/2010 13:08	MJB	EPA 200.7	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SCA
ADDRESS: #1 Power plant RD
CITY/STATE/ZIP: Sunnyside UT 84526
PHONE #: FAX:
CONTACT: Rusty Nitz PROJECT: Ground WTR
EMAIL:

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

TURNAROUND REQUIRED:* 1/15/11
*Expedited turnaround subject to additional charge

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

MATRIX
DW = Drinking Water
WW = Wastewater
W = Water
S = Soil
SO = Solid
SL = Sludge
O = Other

ANALYTICAL TESTS REQUESTED

Bacteriological
R = Routine
I = Investigative
TG = Trigger Source
CO = Confirmation

REPEAT
OR = Original Location
UP = Upstream
DN = Downstream

Lab ID #		SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	Drinking Water Only: SAMPLE SOURCE CODE	Drinking Water Only: SAMPLE POINT CODE	FIELD: Residual Chlorine	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	E. coli only	WW: Total Coliform + Fecal Coliform	Repeat (Fall #)	SYSTEM #
9863														
01	1	MW-7	11/30	930										
02	2	MW-1	11	950										
03	3	MW-4	11	1005										
04	4	MW-2	11	1030										
05	5	MW-3	11	1100										
06	6	WS	11	1130										
	7													
	8													
	9													
	10													

2 Samples Each

Sampled by: (print)
Sampled by: (signature)
ON ICE NOT ON ICE

Special Instructions:

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Rusty Nitz	11/30/10 1200	Alison Bailey	12-1-10 11:00
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

CHEMTECH-FORD 6100 South Stratler Street (380 West) Murray, UT 84107 Phone: 801-262-7299 FAX: 801-262-7378 www.chemtechford.com

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Fed Ex: 7941 6442 4038

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CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: 9863

Delivery Method: (circle one)

UPS (FedEX) USPS

Walk-In Courier Chemtech

Sample(s) sealed: Yes / (No)

Appropriate container/preserve: (Yes) / No

Temperature 5 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	-01-03	A½							
2		M	819						
3									
4	-04	A½							
5		M	HNO_3		X				
6									
7	-05	A½							
8		M	819						
9									
10	-06	A½							
11		M	HNO_3		X				
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Comments:

Bottle Type

Plastic	Glass
A- Plastic Unpreserved	D- 625 ($Na_2S_2O_3$)
B- Miscellaneous Plastic	G- Glass Unpreserved
C- Cyanide Qt (NaOH)	H- HAAs (NH_4Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	J- S08/515/525 (Ns_2SO_3)
M- Metals Pint (HNO_3)	O- Oil & Grease (1:1 HCl)
N- Nutrient Pint (H_2SO_4)	P- Phenols (H_3SO_4)
R- Radiological Gallon (HNO_3)	T- TOC/TOX (H_2PO_3)
S- Sludge Cups/Tubs	U- 531 (MCAA, $Na_2S_2O_3$)
Q- Plastic Bags	V- 524/THMs (Ascorbic Acid)
E- Colifonn/Ecoli	W- 8260 (1:1 HCl)
Additional Volumes	X- Vial Unpreserved
Q- quart 1/2pt- half pint	Y- 624/504 ($Na_2S_2O_3$)
P- pint 1/2- half gallon	Z- Miscellaneous Glass

Attachment B

Re-Sampling Analytical Reports

CHEMTECH-FORD Laboratories
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Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1100117-01

Name:	Sunnyside Cogeneration	***Sample Date:***	1/5/2011 11:30 AM
Sample Site:	MW-3	***Receipt Date:***	1/6/2011 9:25 AM
Comments:		***Sampler:***	Client
Sample Type:	Wastewater	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Metals							
Selenium, Total	0.0153	0.0005	mg/L	1/13/2011 17:23	PNM	EPA 200.8	

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

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SCA
ADDRESS:
CITY/STATE/ZIP:
PHONE #: FAX:
CONTACT: Rusty Nutz PROJECT: Ground WtR
EMAIL:

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

TURNAROUND REQUIRED:* before the 15th
* Expedited turnaround subject to additional charge

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

MATRIX
DW = Drinking Water
WW = Wastewater
W = Water
S = Soil
SO = Solid
SL = Sludge
O = Other

ANALYTICAL TESTS REQUESTED

Bacteriological
R = Routine
I = Investigative
TG = Tngger Source
CO = Confirmation

REPEAT
OR = Original Location
UP = Upstream
DN = Downstream

Lab ID #		SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	Drinking Water Only: SAMPLE SOURCE CODE	Drinking Water Only: SAMPLE POINT CODE	ANALYTICAL TESTS REQUESTED	FIELD: Residual Chlorine	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	E. coli only	WW: Total Coliform + Fecal Coliform	Repeat (Fail #)	SYSTEM #
00117 -01	1	MW-3	1/5/11	1130			MW-3 Selenium only								
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														

Sampled by: [print]
Sampled by: [signature]
ON ICE
NOT ON ICE

Special Instructions:

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Rusty Nutz	1/5/11 1230	Sharon Bailey	1-6-11 9:25
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

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Fed Ex 7942 8975 2536

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CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: 00117

Delivery Method: (circle one)

UPS (FedEX) USPS

Walk-In Courier Chemtech

Sample(s) sealed: Yes / No

Appropriate container/preserve: Yes / No

Temperature 5 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	M	HNO3		X				
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Comments:

Bottle Type

Plastic	Glass
A- Plastic Unpreserved	D- 625 ($Na_2S_2O_3$)
B- Miscellaneous Plastic	G- Glass Unpreserved
C- Cyanide Qt (NaOH)	H- HAAs (NH_4Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	J- 508/515/525 (Na_2SO_3)
M- Metals Pint (HNO_3)	O- Oil & Grease (1:1 HCl)
N- Nutrient Pint (H_2SO_4)	P- Phenols (H_2SO_4)
R- Radiological Gallon (HNO_2)	T- TOC/TOX (H_2PO_4)
S- Sludge Cups/Tubs	U- 531 (MCAA, $Na_2S_2O_3$)
Q- Plastic Bags	V- 524/THMs (Ascorbic Acid)
E- Coliform/Ecoli	W- 8260 (1:1 HCl)
Additional Volumes	X- Vial Unpreserved
Q- quart 1/2pt- half pint	Y- 624/504 ($Na_2S_2O_3$)
P- pint 1/2- half gallon	Z- Miscellaneous Glass

CHEMTECH-FORD Laboratories
www.chemtechford.com

Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1100062-01

Name:	Sunnyside Cogeneration	***Sample Date:***	1/3/2011 10:25 AM
Sample Site:	MW-7	***Receipt Date:***	1/4/2011 10:44 AM
Comments:		***Sampler:***	Rusty Netz
Sample Type:	Wastewater	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Total Dissolved Solids (TDS)	4830	10	mg/L	1/7/2011 9:34	JSH	SM 2540 C	

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

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SCA
ADDRESS: #1 Power Plant Road
CITY/STATE/ZIP: Sunnyside Ut. 84539
PHONE #: FAX:
CONTACT: Rusty PROJECT: Ground WTR.
EMAIL:

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

TURNAROUND REQUIRED:* By Jan 13th 2011
* Expedited turnaround subject to additional charge

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

MATRIX: DW = Drinking Water; WW = Wastewater; W = Water; S = Soil; SO = Solid; SL = Sludge; O = Other

Bacteriological: R = Routine; I = Investigative; TG = Trigger Source; CO = Confirmation

REPEAT: OR = Original Location; UP = Upstream; DN = Downstream

Lab ID #		SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	Drinking Water Only: SAMPLE SOURCE CODE	Drinking Water Only: SAMPLE POINT CODE	Repeat (Fail #)	SYSTEM #
000622	1.	~~MW-3~~	~~1/3/11~~	~~1100~~	~~Cancel~~			
	2.							
-01	3.	MW-7	1/3/11	1025				
	4.							
	5.							
	6.							
	7.							
	8.							
	9.							
	10.							
	Sampled by: [print]				Sampled by: [signaaure]			

ANALYTICAL TESTS REQUESTED: FIELD: Residual Chlorine; Total Coliform + E. coli (Present/Absent); Total Coliform + E. coli (Enumerated); HPC (Plate Count); E. coli only; WW: Total Coliform + Fecal Coliform

MW-3 Sample for Selenium (only)

MW-7 Sample for TDS (only)

ON ICE NOT ON ICE

Special Instructions: MW-3 Pres. w/ H_2SO_4 - CANNOT RUN Se. Emailed Rusty 1-4-11

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Rusty	1/3/11 1200		
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

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Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agress to pay collection costs and attorney's fees.

FedEx Trk# 8714 9596 8566

Subject: RE: MW-3 Selenium
From: Rusty Netz <rusnetz@hotmail.com>
Date: Wed, 5 Jan 2011 00:12:43 +0000
To: <adavis@chemtechford.com>

I will send you a new sample for MW-3 in HN03. Expect it on thursday.

Rusty Netz
Sunnyside Cogen.
(435)888-4476 ext. 107

> Date: Tue, 4 Jan 2011 10:53:02 -0700
> From: ADavis@chemtechford.com
> To: rusnetz@hotmail.com
> Subject: MW-3 Selenium
>
> Rusty,
>
> I received your sample identified as MW-3 for selenium testing.
> However, the bottle indicates the sample has been preserved with H2SO4
> (sulfuric acid). This is the incorrect preservative for metals
> analysis. The sample should have been acidified with HNO3(nitric
> acid). We will not be able to complete the analysis for MW-3. Please
> let me know if you need a metals bottle to re-sample.
>
> We will be able to run TDS on MW-7.
>
> Thank you,
> April Davis
> Chemtech Ford Laboratories
> 801-693-1170

CHEMTECH-FORD Laboratories
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CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: CCC602

Delivery Method: (circle one)

UPS (FedEX) USPS

Walk-In Courier Chemtech

Sample(s) sealed: Yes / (No)

Appropriate container/preserve: Yes / (No)

Temperature 16 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	C1	A1/2	–						
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Comments:

MW-3 - metals submitted in nutrient pint preserved w/ H_2SO_4. Emailed and called Rusty 1-4-11 SD

Bottle Type	
Plastic	**Glass**
A- Plastic Unpresorved	**D-** 625 ($Na_2S_2O_3$)
B- Miscellaneous Plastic	**G-** Glass Unpreserved
C- Cyanide Qt (NaOH)	**H-** HAAs (NH_4Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	**J-** 508/515/525 (Na_2SO_3)
M- Metals Pint (HNO_3)	**O-** Oil & Grease (1:1 HCl)
N- Nutrient Pint (H_2SO_4)	**P-** Phenols (H_2SO_4)
R- Radiological Gallon (HNO_3)	**T-** TOC/TOX (H_3PO_4)
S- Sludge Cups/Tubs	**U-** 531 (MCAA, $Na_2S_2O_3$)
Q- Plastic Bags	**V-** 524/THMs (Ascorbic Acid)
E- Coliform/Ecoli	**W-** 8260 (1:1 HCl)
Additional Volumes	**X-** Vial Unpreserved
Q- quart 1/2pt- half pint	**Y-** 624/504 ($Na_2S_2O_3$)
P- pint 1/2- half gallon	**Z-** Miscellaneous Glass