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BOARD OF COUNTY COMMISSIONERS

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January 14, 1994
SL-94-126

Florida Department of Environmental Protection
2295 Victoria Avenue, Suite 364
Fort Myers, FL 33901

Attention: Phillip Barbacia

RE: Lee County Solid Waste Energy Recovery Facility
Power Plant Site Certification Case # PA 90-30

Dear Mr. Barbacia:

In accordance with the subject certification, Condition XIV D.3.d & e, please find attached a copy of the quarterly groundwater sampling results. The analysis for sample # AA 41192 (surface water) dated 12/1/93 and tested bimonthly is also included.

We previously sent you certified prints with monitoring well identifications, locations and elevations.

If you have any questions, please call me at 338-3100.

Sincerely,

DEPARTMENT OF SOLID WASTE MANAGEMENT

Larry A. Johnson
Larry A. Johnson, P.E.
Director

LAJ/clr

Attachment

cc: L. Johnson
D. Dee
S. Coughanour w/attachment
D. Markley w/attachment
L. P. Young w/attachment
K. Johnson w/attachment
II A418

RECEIVED

JAN 19 1994

D.E.P. SOUTH DISTRICT

Lee County Environmental Laboratory
60 Danley Drive # 2
Fort Myers, Florida 33907
(813) 278-7288
HRS ID 45031/E45049

January 3, 1994

Mr. Lindsey Sampson
L.C. Dept. of Solid Waste
cc: Malcom Perney

Dear: Mr. Sampson:

Below are the results of analysis of 12 samples received for examination on November 4, 1993:

Sample I.D. AA40669 Location code: WTE-1S
Location Description: Waste to Energy M.W. # 1-S
Sample collector: VICKI
Sample collection date: 11/04/93 Time: 10:00
Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	0.003	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	Not detected	0.01
Iron by flame AA	mg/L	4.56	0.03
Lead, AA furnace technique	ug/L	2	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	6.94	
Total Dissolved Solids	mg/L	430	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.27	0.01
Specific Conductance @ 25oC	umhos/cm	628	1
Elevation, Water Table	Feet NGVD	21.21	0.01

Summary of specification violations or warnings:

Analyte: Cadmium by flame AA
Upper specification value: 0.01 Result: Not detected

Sample I.D. AA40670 Location code: WTE-1D
Location Description: Waste to Energy M.W. # 1-D
Sample collector: VICKI
Sample collection date: 11/04/93 Time: 10:00
Lab submittal date: 11/04/93 Time: 15:23

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JAN 19 1994

D.E.P. SOUTH DISTRICT

January 3, 1994

Mr. Lindsey Sampson Sample I.D. AA40670 (continued)

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	Not detected	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	Not detected	0.01
Iron by flame AA	mg/L	0.04	0.03
Lead, AA furnace technique	ug/L	1	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	7.53	
Total Dissolved Solids	mg/L	534	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	Not detected	0.01
Specific Conductance @ 25oC	umhos/cm	732	1
Elevation, Water Table	Feet NGVD	19.61	0.01

Sample I.D. AA40671

Location code: WTE-2S

Location Description: Waste to Energy M.W. # 2-S

Sample collector: VICKI

Sample collection date: 11/04/93 Time: 10:00

Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	0.002	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	Not detected	0.01
Iron by flame AA	mg/L	1.79	0.03
Lead, AA furnace technique	ug/L	Not detected	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	7.01	
Total Dissolved Solids	mg/L	564	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.22	0.01
Specific Conductance @ 25oC	umhos/cm	724	1
Elevation, Water Table	Feet NGVD	20.78	0.01

Summary of specification violations or warnings:

Analyte: Cadmium by flame AA
 Upper specification value: 0.01

Result: Not detected

Sample I.D. AA40676

Location code: WTE-4D

Location Description: Waste to Energy M.W. # 4-D

Sample collector: VICKI

Sample collection date: 11/04/93 Time: 10:00

Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	Not detected	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	Not detected	0.01
Iron by flame AA	mg/L	0.05	0.03
Lead, AA furnace technique	ug/L	2	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	0.02	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	0.02	0.01
pH (electrometric)	pH units	8.20	
Total Dissolved Solids	mg/L	478	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.06	0.01
Specific Conductance @ 25oC	umhos/cm	758	1
Elevation, Water Table	Feet NGVD	20.31	0.01

Sample I.D. AA40677

Location code: WTE-5S

Location Description: Waste to Energy M.W. # 5-S

Sample collector: VICKI

Sample collection date: 11/04/93 Time: 10:00

Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	Not detected	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	0.01	0.01
Iron by flame AA	mg/L	1.04	0.03
Lead, AA furnace technique	ug/L	Not detected	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	7.23	
Total Dissolved Solids	mg/L	490	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.31	0.01
Specific Conductance @ 25oC	umhos/cm	710	1
Elevation, Water Table	Feet NGVD	20.31	0.01

Sample I.D. AA40678

Location code: WTE-5D

Location Description: Waste to Energy M.W. # 5-D

Sample collector: VICKI

Sample collection date: 11/04/93 Time: 10:00

Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	Not detected	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	0.01	0.01
Iron by flame AA	mg/L	0.14	0.03
Lead, AA furnace technique	ug/L	1	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	7.84	
Total Dissolved Solids	mg/L	746	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.16	0.01
Specific Conductance @ 25oC	umhos/cm	1131	1
Elevation, Water Table	Feet NGVD	20.11	0.01

Sample I.D. AA40679

Location code: WTE-6S

Location Description: Waste to Energy M.W. # 6-S

Sample collector: VICKI

Sample collection date: 11/04/93 Time: 10:00

Lab submittal date: 11/04/93 Time: 15:23

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Arsenic, AA furnace technique	mg/L	Not detected	0.001
Cadmium by flame AA	mg/L	Not detected	0.005
Chromium by flame AA	mg/L	0.01	0.01
Iron by flame AA	mg/L	1.34	0.03
Lead, AA furnace technique	ug/L	2	1
Mercury, AA cold vapor technique	ug/L	Not detected	0.2
Nitrate	mg/L as N	Not detected	0.01
Nitrite	mg/L as N	Not detected	0.001
Nitrate + Nitrite	mg/L as N	Not detected	0.01
pH (electrometric)	pH units	7.19	
Total Dissolved Solids	mg/L	594	2
Selenium, AA furnace technique	mg/L	Not detected	0.002
Nitrogen, Kjeldahl, Total	mg/L as N	0.56	0.01
Specific Conductance @ 25oC	umhos/cm	887	1
Elevation, Water Table	Feet NGVD	20.23	0.01

