

Appendix 8.C

Semi-annual fly ash analyses and leach data

DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 7/29/97

Material Tested: Fly Ash HawkMtn #: 9705-00305-001
Date Received: 5/28/1997 Sampler Client
Date Sampled: 5/28/1997 Sample pt. ID: Schuylkill Energy
Client ID: Schuylkill Energy, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	10.11	10.75	EPA SW846, METH. 9045
Aluminum	263000	1.5	SW-846 METH. 7020
Antimony	<20.0	0.003	SW-846 METH. 7040
Arsenic	29.0	<0.005	SW-846 METH. 7060
Barium	149	<0.10	SW-846 METH. 7080
Boron	<10.0	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	<0.005	METH. 7131
Chromium	33	0.10	METH. 7191
Copper	18	0.03	EPA SW846 METH. 7210
Iron	53000	0.06	EPA SW846 METH. 7380
Lead	13	<0.10	METH. 7421
Manganese	82	0.02	EPA SW846 METH. 7460
Mercury	0.40	<0.0002	METH. 7471
Molybdenum	20	0.3	EPA SW846 METH. 7480
Nickel	19	<0.04	EPA SW846 METH. 7520
Selenium	<0.5	<0.005	EPA SW846 METH. 7740
Zinc	68.1	0.022	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)



201 West Clay Avenue / West Hazleton, PA 18202

L A B S I N C

DER MODULE 25

PHONE (570) 455-6011

FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

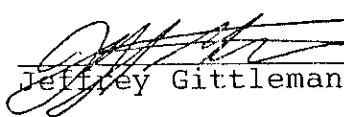
TO: Reading Anthracite

Report Date: 7/29/1997

Material Tested: Fly Ash Hawk Mtn ID: 9705-00305-001
 Date Received: 5/28/1997 Permit No.:
 Date Sampled: 5/28/1997 Sample Pt. ID: Schuylkill Energy
 Client ID: Schuylkill Energy, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	10.75	su, ending	EPA SW846 METH. 1312	7/02/1997
Sulfate, Leachate	851	mg/l	EPA METH. 300 HPLC IC	7/16/1997
Nitrate, Leachate	<0.002	mg/l	EPA METH. 300 HPLC IC	7/16/1997
Chloride, Leachate	4.33	mg/l	EPA METH. 300 HPLC IC	7/16/1997
Sodium, Total, leachate	5.9	mg/l	EPA SW846 METH. 7770	7/14/1997
Acid Neutralization Potent	34.01	**	EPA 600/2-78-054	7/21/1997

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material


 Jeffrey Gittleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 11/26/97

Material Tested: Fly Ash HawkMtn #: 9710-00243-001
Date Received: 10/17/1997 Sampler Client
Date Sampled: 10/15/1997 Sample pt. ID: SER
Client ID: SER, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	10.02	10.82	EPA SW846, METH. 9045
Aluminum	22000	4.26	SW-846 METH. 7020
Antimony	<20.0	<0.005	SW-846 METH. 7040
Arsenic	<0.5	0.010	EPA SW846 METH. 7060
Barium	180	<0.10	EPA SW846 METH. 7080
Boron	14.3	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	<0.005	EPA SW846 METH. 7131
Chromium	35	0.07	EPA SW846 METH. 7191
Copper	18	<0.02	EPA SW846 METH. 7210
Iron	1200	0.08	EPA SW846 METH. 7380
Lead	10	<0.10	EPA SW846 METH. 7421
Manganese	43	0.04	EPA SW846 METH. 7460
Mercury	0.73	<0.0002	EPA SW846 METH. 7471
Molybdenum	<10.0	<0.1	EPA SW846 METH. 7480
Nickel	6.0	<0.04	EPA SW846 METH. 7520
Selenium	<0.5	<0.005	EPA SW846 METH. 7740
Zinc	23	<0.005	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





201 West Clay Avenue / West Hazleton, PA 18202

L A B S I N C

DER MODULE 25

PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 11/26/1997

Material Tested: Fly Ash
Date Received: 10/17/1997
Date Sampled: 10/15/1997
Client ID: SER, Semi Annual Fly Ash Analysis

Hawk Mtn ID: 9710-00243-001
Permit No.:
Sample Pt. ID: SER

Table with 5 columns: TEST DESCRIPTION, TEST RESULT, UNITS, TEST METHOD, DATE OF ANALYSIS. Rows include SPLP Fluid #3, Water, Sulfate, Leachate, Nitrate, Leachate, Chloride, Leachate, Sodium, Total, leachate, Acid Neutralization Potent.

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Handwritten signature of Jeffrey Gittleman, Lab Director



DEP MODULE 25
 SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
 Engineering Department
 200 Mahantongo Street
 Pottsville, PA 17901

Report Date: 7/17/98

Material Tested: Fly Ash HawkMtn #: 9806-00072-001
 Date Received: 6/03/1998 Sampler Client
 Date Sampled: 6/02/1998 Sample pt. ID: Reading
 Client ID: Reading Anthracite Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	10.16	10.40	EPA SW846 METH. 9045
Aluminum	26700	0.96	SW-846 METH. 7020
Antimony	<20.0	<0.001	SW-846 METH. 7040
Arsenic	19.5	0.035	EPA SW846 METH. 7060
Barium	290	0.24	EPA SW846 METH. 7080
Boron	40	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	<0.005	EPA SW846 METH. 7131
Chromium	57	0.13	EPA SW846 METH. 7191
Copper	26	0.02	EPA SW846 METH. 7210
Iron	23800	0.09	EPA SW846 METH. 7380
Lead	<10.0	<0.10	EPA SW846 METH. 7421
Manganese	65	0.01	EPA SW846 METH. 7460
Mercury	0.61	<0.0002	EPA SW846 METH. 7471
Molybdenum	<10.0	0.15	EPA SW846 METH. 7480
Nickel	9.4	<0.04	EPA SW846 METH. 7520
Selenium	<0.5	<0.005	EPA SW846 METH. 7740
Zinc	25	0.06	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





L A B S I N C

DER MODULE 25

PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

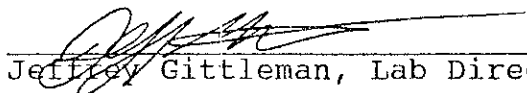
TO: Reading Anthracite

Report Date: 7/17/1998

Material Tested: Fly Ash Hawk Mtn ID: 9806-00072-001
 Date Received: 6/03/1998 Permit No.:
 Date Sampled: 6/02/1998 Sample Pt. ID: Reading
 Client ID: Reading Anthracite Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	10.63	su, ending	EPA SW846 METH. 1312	6/05/1998
Sulfate, Leachate	646.0	mg/l	EPA METH. 300 HPLC IC	6/29/1998
Nitrate, Leachate	<0.002	mg/l	EPA METH. 300 HPLC IC	6/29/1998
Chloride, Leachate	<0.02	mg/l	EPA METH. 300 HPLC IC	6/29/1998
Sodium, Total, leachate	5.90	mg/l	EPA SW846 METH. 7770	6/10/1998
Acid Neutralization Potent	13.3	**	EPA 600/2-78-054	6/17/1998

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material


 Jeffrey Gittleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 12/03/98

Material Tested: Fly Ash HawkMtn #: 9810-00265-001
Date Received: 10/28/1998 Sampler Client
Date Sampled: 10/28/1998 Sample pt. ID: SER
Client ID: SER, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	9.64	10.13	EPA SW846 METH. 9045
Aluminum	27900	1.72	SW-846 METH. 7020
Antimony	<20.0	<0.010	SW-846 METH. 7040
Arsenic	13.4	0.014	EPA SW846 METH. 7060
Barium	287	0.24	EPA SW846 METH. 7080
Boron	<10.0	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	0.010	EPA SW846 METH. 7131
Chromium	47	0.08	EPA SW846 METH. 7191
Copper	48	0.02	EPA SW846 METH. 7210
Iron	24500	<0.03	EPA SW846 METH. 7380
Lead	45	0.12	EPA SW846 METH. 7421
Manganese	62	0.03	EPA SW846 METH. 7460
Mercury	<0.02	<0.0002	EPA SW846 METH. 7471
Molybdenum	13	0.15	EPA SW846 METH. 7480
Nickel	15	0.04	EPA SW846 METH. 7520
Selenium	<0.5	0.077	EPA SW846 METH. 7740
Zinc	23.0	<0.005	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





L A B S I N C DER MODULE 25 PHONE (570) 455-6011 • FAX (570) 455-6321
SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

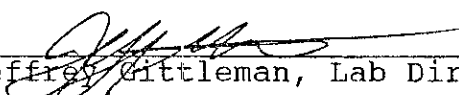
TO: Reading Anthracite

Report Date: 12/03/1998

Material Tested: Fly Ash Hawk Mtn ID: 9810-00265-001
Date Received: 10/28/1998 Permit No.:
Date Sampled: 10/28/1998 Sample Pt. ID: SER
Client ID: SER, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water Sulfate, Leachate	10.42	su, ending	EPA SW846 METH. 1312	10/29/199
Nitrate, Leachate	360.0	mg/l	EPA METH. 300 HPLC IC	11/02/199
Chloride, Leachate	<0.002	mg/l	EPA METH. 300 HPLC IC	11/02/199
Sodium, Total, leachate	4.47	mg/l	EPA METH. 300 HPLC IC	11/02/199
Acid Neutralization Potent	4.80	mg/l	EPA SW846 METH. 7770	11/12/199
	21.0	**	EPA 600/2-78-054	11/09/199

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material


Jeffrey Gittleman, Lab Director





DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 7/08/99

Material Tested: Fly Ash HawkMtn #: 9906-00161-001
Date Received: 6/10/1999 Sampler Client
Date Sampled: 6/09/1999 Sample pt. ID: SER Ash
Client ID: Semi Annual Fly Ash Analysis, Reading, SER Ash

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	9.42	9.24	EPA SW846 METH. 9045
Aluminum	27300	1.48	SW-846 METH. 7020
Antimony	<20.0	0.01	SW-846 METH. 7040
Arsenic	1.1	0.020	EPA SW846 METH. 7060
Barium	178	<0.10	EPA SW846 METH. 7080
Boron	22.6	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	<0.005	EPA SW846 METH. 7131
Chromium	11	0.09	EPA SW846 METH. 7191
Copper	153	<0.02	EPA SW846 METH. 7210
Iron	10600	0.03	EPA SW846 METH. 7380
Lead	23	<0.10	EPA SW846 METH. 7421
Manganese	54.6	<0.01	EPA SW846 METH. 7460
Mercury	<0.02	<0.0002	EPA SW846 METH. 7471
Molybdenum	21	0.10	EPA SW846 METH. 7480
Nickel	<4.0	<0.04	EPA SW846 METH. 7250
Selenium	<0.5	<0.005	EPA SW846 METH. 7740
Zinc	19.2	<0.005	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





201 West Clay Avenue / West Harrison, MO, 63092

L A B S

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DER MODULE 25

PHONE (570) 455-6011

FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS


TO: Reading Anthracite

Report Date: 7/08/1999

Material Tested: Fly Ash Hawk Mtn ID: 9906-00161-001
 Date Received: 6/10/1999 Permit No.:
 Date Sampled: 6/09/1999 Sample Pt. ID: SER Ash
 Client ID: Semi Annual Fly Ash Analysis, Reading, SER Ash

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	9.56	su, ending	EPA SW846 METH. 1312	6/21/1999
Sulfate, Leachate	255.0	mg/l	EPA METH. 300 HPLC IC	6/28/1999
Nitrate, Leachate	<0.002	mg/l	EPA METH. 300 HPLC IC	6/28/1999
Chloride, Leachate	8.88	mg/l	EPA METH. 300 HPLC IC	6/28/1999
Sodium, Total, leachate	1.97	mg/l	EPA SW846 METH. 7770	6/24/1999
Acid Neutralization Potent	17.8	**	EPA 600/2-78-054	7/02/1999

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material


 Jeffrey Gittleman, Lab Director





L A B S I N C

DER MODULE 25 PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS


TO: Reading Anthracite

Report Date: 2/10/2000

Material Tested: Fly Ash Hawk Mtn ID: 9912-00016-001
 Date Received: 11/30/1999 Permit No.:
 Date Sampled: 11/30/1999 Sample Pt. ID: SER Ash
 Client ID: Reading Anthracite, Semi Annual Fly Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	9.53	su, ending	EPA SW846 METH. 1312	2/01/2000
Sulfate, Leachate	252.0	mg/l	EPA METH. 300 HPLC IC	2/04/2000
Nitrate, Leachate	0.27	mg/l	EPA METH. 300 HPLC IC	2/04/2000
Chloride, Leachate	1.75	mg/l	EPA METH. 300 HPLC IC	2/04/2000
Sodium, Leachate	2.92	mg/l	EPA SW846 METH. 7770	2/04/2000
Acid Neutralization Potent	20.8	**	EPA 600/2-78-054	2/08/2000

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material


 Jeffrey Gittleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 6/01/00

Material Tested:	Fly Ash	HawkMtn #:	0004-00263-001
Date Received:	4/13/2000	Sampler	Client
Date Sampled:	4/13/2000	Sample pt. ID:	SER
Client ID:	SER Semi Annual Fly Ash Analysis		

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	11.91	11.62	EPA SW846 METH. 9045
Aluminum	25400	0.90	SW-846 METH. 7020
Antimony	<20.0	<0.010	SW-846 METH. 7040
Arsenic	11.2	<0.005	EPA SW846 METH. 7060
Barium	242	0.13	EPA SW846 METH. 7080
Boron	<10.0	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	1.3	0.021	EPA SW846 METH. 7131
Chromium	36	0.08	EPA SW846 METH. 7191
Copper	23.9	0.03	EPA SW846 METH. 7210
Iron	18800	0.24	EPA SW846 METH. 7380
Lead	12	<0.10	EPA SW846 METH. 7421
Manganese	53	0.01	EPA SW846 METH. 7460
Mercury	0.105	<0.0002	EPA SW846 METH. 7471
Molybdenum	<10.0	0.10	EPA SW846 METH. 7480
Nickel	28	0.05	EPA SW846 METH. 7250
Selenium	1.5	<0.005	EPA SW846 METH. 7740
Zinc	15.5	0.019	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





L A B S L N C

DER MODULE 25

PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 6/01/2000

Material Tested: Fly Ash
Date Received: 4/13/2000
Date Sampled: 4/13/2000
Client ID: SER Semi Annual Fly Ash Analysis

Hawk Mtn ID: 0004-00263-001
Permit No.:
Sample Pt. ID: SER

Table with 5 columns: TEST DESCRIPTION, TEST RESULT, UNITS, TEST METHOD, DATE OF ANALYSIS. Rows include SPLP Fluid #3, Water Sulfate, Leachate, Nitrate, Leachate, Chloride, Leachate, Sodium, Leachate, and Acid Neutralization Potent.

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Handwritten signature of Jeffrey Gittleman, Lab Director





201 West Clay Avenue / West Hazleton, PA 18202

L A B S I N C

DER MODULE 25

PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 12/28/2000

Material Tested: Fly Ash Hawk Mtn ID: 0011-00204-001
 Date Received: 11/13/2000 Permit No.:
 Date Sampled: 11/10/2000 Sample Pt. ID: SER
 Client ID: Schuylkill Energy Resources, Semi Annual Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	10.70	su, ending	EPA SW846 METH. 1312	11/15/2000
Sulfate, Leachate	219.0	mg/l	EPA METH. 300 HPLC IC	11/17/2000
Nitrate, Leachate	<0.002	mg/l	EPA METH. 300 HPLC IC	11/17/2000
Chloride, Leachate	0.55	mg/l	EPA METH. 300 HPLC IC	11/17/2000
Sodium, Leachate	1.91	mg/l	EPA SW846 METH. 7770	11/29/2000
Acid Neutralization Potent	41.3	**	EPA 600/2-78-054	11/15/2000

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Jeffrey Gittleman
Jeffrey Gittleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
200 Mahantongo Street
Pottsville, PA 17901

Report Date: 7/16/01

Material Tested:	Fly Ash	HawkMtn #:	0106-00003-001
Date Received:	6/01/2001	Sampler	Client
Date Sampled:	6/01/2001	Sample pt. ID:	SER
Client ID:	SER Semi Annual Fly Ash Analysis		

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	9.61	10.1	EPA SW846 METH. 9045
Aluminum	27700	2.21	SW-846 METH. 7020
Antimony	1.0	<0.005	SW-846 METH. 7040
Arsenic	7.9	0.023	EPA SW846 METH. 7060
Barium	205	<0.10	EPA SW846 METH. 7080
Boron	23.5	<0.2	AGR. #9, PART 2, 2ND. ED
Cadmium	<0.5	<0.005	EPA SW846 METH. 7131
Chromium	30.9	<0.05	EPA SW846 METH. 7191
Copper	23	<0.02	EPA SW846 METH. 7210
Iron	24	0.07	EPA SW846 METH. 7380
Lead	<10.0	<0.10	EPA SW846 METH. 7421
Manganese	86	<0.01	EPA SW846 METH. 7460
Mercury	0.28	<0.0002	EPA SW846 METH. 7471
Molybdenum	<10.0	<0.1	EPA SW846 METH. 7480
Nickel	14	<0.04	EPA SW846 METH. 7250
Selenium	3.3	<0.005	EPA SW846 METH. 7740
Zinc	17.8	0.008	EPA SW846 METH. 7950

* pH values are represented by Standard pH units (su)





201 West Clay Avenue / West Haven, CT 06611

L A B S I N C

DER MODULE 25

PHONE (570) 455-6011 • FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 7/16/2001

Material Tested: Fly Ash
Date Received: 6/01/2001
Date Sampled: 6/01/2001
Client ID: SER Semi Annual Fly Ash Analysis

Hawk Mtn ID: 0106-00003-001
Permit No.:
Sample Pt. ID: SER

Table with 5 columns: TEST DESCRIPTION, TEST RESULT, UNITS, TEST METHOD, DATE OF ANALYSIS. Rows include SPLP Fluid #3, Water; Sulfate, Leachate; Nitrate, Leachate; Chloride, Leachate; Sodium, Leachate; Acid Neutralization Potent.

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Handwritten signature of Jeffrey Littleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
PO Box 1200
Pottsville, PA 17901

Report Date: 1/07/02

Material Tested: Fly Ash HawkMtn #: 0111-00357-001
Date Received: 11/21/2001 Sampler Client
Date Sampled: 11/21/2001 Sample pt. ID: Reading Anthracite
Client ID: Reading Anthracite, Semi Annual Ash Analysis

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	9.65	9.99	SW846-9045
Aluminum	23400	1.58	SW846-6010B
Antimony	<3.5	<0.04	SW846-6010B
Arsenic	6.16	0.032	SW846-7060A
Barium	226	0.015	SW846-6010B
Boron	24.0	<0.2	SW846-6010B
Cadmium	1.8	<0.005	SW846-6010B
Chromium	35.1	0.008	SW846-6010B
Copper	17.9	<0.005	SW846-6010B
Iron	15200	<0.01	SW846-6010B
Lead	<5.0	<0.025	SW846-6010B
Manganese	107	0.009	SW846-6010B
Mercury	0.10	<0.0002	SW846-7471A
Molybdenum	<1.00	0.016	SW846-6010B
Nickel	8.2	<0.010	SW846-6010B
Selenium	<0.50	<0.005	SW846-7740
Zinc	16.6	0.013	SW846-6010B

* pH values are represented by Standard pH units (su)





L A B S L N C

DER MODULE 25

PHONE (570) 455-6011

FAX (570) 455-6321

SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 1/07/2002

Material Tested: Fly Ash Hawk Mtn ID: 0111-00357-001
 Date Received: 11/21/2001 Permit No.:
 Date Sampled: 11/21/2001 Sample Pt. ID: Reading Anthracite
 Client ID: Reading Anthracite, Semi Annual Ash Analysis

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	10.2	su, ending	EPA SW846 METH. 1312	11/29/200
Sulfate, Leachate	233.0	mg/l	EPA METH. 300 HPLC IC	11/30/200
Nitrate, Leachate	0.05	mg/l	EPA METH. 300 HPLC IC	11/30/200
Chloride, Leachate	0.68	mg/l	EPA METH. 300 HPLC IC	11/30/200
Sodium, Leachate	5.25	mg/l	SW846-6010B	12/18/200
Acid Neutralization Potent	34	**	EPA 600/2-78-054	12/05/200

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Jeffrey Gittleman
Jeffrey Gittleman, Lab Director



DEP MODULE 25
SEMI-ANNUAL MONITORING REPORT

TO: Reading Anthracite
Engineering Department
PO Box 1200
Pottsville, PA 17901

Report Date: 5/03/02

Material Tested: Fly Ash HawkMtn #: 0204-00267-001
Date Received: 4/17/2002 Sampler Client
Date Sampled: 4/17/2002 Sample pt. ID: SCR
Client ID: Semi Annual Ash Analysis, Schuylkill Energy Resources

TEST DESCRIPTION	TEST RESULTS Dry Wt. mg/kg	Test Results Leachate mg/l	TEST METHOD
*pH	9.07	9.63	SW846-9045
Aluminum	10300	1.64	SW846-6010B
Antimony	2	<0.04	SW846-6010B
Arsenic	9.87	0.057	SW846-7060A
Barium	108	0.03	SW846-6010B
Boron	44.5	0.07	SW846-6010B
Cadmium	2	<0.005	SW846-6010B
Chromium	25	<0.005	SW846-6010B
Copper	14	<0.005	SW846-6010B
Iron	13200	0.02	SW846-6010B
Lead	18	0.05	SW846-6010B
Manganese	87	0.01	SW846-6010B
Mercury	0.15	<0.0002	SW846-7471A
Molybdenum	<1.00	<0.005	SW846-6010B
Nickel	10	<0.010	SW846-6010B
Selenium	<0.5	<0.005	SW846-7060A
Zinc	17	0.06	SW846-6010B

* pH values are represented by Standard pH units (su)





L A B S I N C

DER MODULE 25 PHONE (570) 455-6011 FAX (570) 455-6321
SEM-ANNUAL FLY ASH/ SPLP LEACHATE ANALYSIS

TO: Reading Anthracite

Report Date: 5/03/2002

Material Tested: Fly Ash Hawk Mtn ID: 0204-00267-001
 Date Received: 4/17/2002 Permit No.:
 Date Sampled: 4/17/2002 Sample Pt. ID: SCR
 Client ID: Semi Annual Ash Analysis, Schuylkill Energy Resources

TEST DESCRIPTION	TEST RESULT	UNITS	TEST METHOD	DATE OF ANALYSIS
SPLP Fluid #3, Water	10.18	su, ending	EPA SW846 METH. 1312	4/19/2002
Sulfate, Leachate	315.0	mg/l	EPA METH. 300 HPLC IC	4/24/2002
Nitrate, Leachate	0.25	mg/l	EPA METH. 300 HPLC IC	4/24/2002
Chloride, Leachate	1.40	mg/l	EPA METH. 300 HPLC IC	4/24/2002
Sodium, Leachate	0.53	mg/l	SW846-6010B	4/30/2002
Acid Neutralization Potent	15.3	**	EPA 600/2-78-054	4/23/2002

** Tons Calcium Carbonate equivalent/ 1000 Tons of Material

Jeffrey Gittleman
 Jeffrey Gittleman, Lab Director

