Enclosure A: DMR data for flow and precipitation.

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
11/1/2009	blank	blank	blank	blank
11/2/2009	blank	blank	blank	blank
11/3/2009	blank	blank	blank	blank
11/4/2009	blank	blank	blank	blank
11/5/2009	blank	blank	blank	blank
11/6/2009	blank	blank	blank	blank
11/7/2009	blank	blank	blank	blank
11/8/2009	blank	blank	blank	blank
11/9/2009	blank	blank	blank	blank
11/10/2009	blank	blank	blank	blank
11/11/2009	blank	blank	blank	blank
11/12/2009	blank	blank	blank	blank
11/13/2009	blank	blank	blank	blank
11/14/2009	blank	blank	blank	blank
11/15/2009	blank	blank	blank	blank
11/16/2009	blank	blank	blank	blank
11/17/2009	blank	blank	blank	blank
11/18/2009	blank	blank	blank	blank
11/19/2009	blank	blank	blank	blank
11/20/2009	blank	blank	blank	blank
11/21/2009	blank	blank	blank	blank
11/22/2009	blank	blank	blank	blank
11/23/2009	blank	blank	blank	blank
11/24/2009	blank	blank	blank	blank
11/25/2009	blank	blank	blank	blank
11/26/2009	blank	blank	blank	blank
11/27/2009	blank	blank	blank	blank
11/28/2009	blank	blank	blank	blank
11/29/2009	blank	blank	blank	blank
11/30/2009	blank	blank	blank	blank
12/1/2009		0	blank	blank
12/2/2009		0	blank	blank
12/3/2009	1500	0	blank	blank
12/4/2009		0	blank	blank
12/5/2009		0	blank	blank
12/6/2009		0.05	blank	blank
12/7/2009		0	blank	blank
12/8/2009		1.39	blank	blank
12/9/2009		0	blank	blank
12/10/2009	3800	0	blank	blank
12/11/2009		0	blank	blank
12/12/2009		0	blank	blank

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
12/13/2009		0.43	blank	blank
12/14/2009		0	blank	blank
12/15/2009		0	blank	blank
12/16/2009		0	blank	blank
12/17/2009	800	0	blank	blank
12/18/2009		0	blank	blank
12/19/2009		0	blank	blank
12/20/2009		0.5	blank	blank
12/21/2009		0	blank	blank
12/22/2009		0	blank	blank
12/23/2009		0	blank	blank
12/24/2009	1	0.32	blank	blank
12/25/2009		0.33	blank	blank
12/26/2009		0	blank	blank
12/27/2009		0.02	blank	blank
12/28/2009		0	blank	blank
12/29/2009		0	blank	blank
12/30/2009		0.16	blank	blank
12/31/2009		0	blank	blank
1/1/2010		0.01	blank	blank
1/2/2010		0.01	blank	blank
1/3/2010		0.02	blank	blank
1/4/2010		0.11	blank	blank
1/5/2010		0	blank	blank
1/6/2010		0	blank	blank
1/7/2010	900	0.17	blank	blank
1/8/2010		0	blank	blank
1/9/2010		0	blank	blank
1/10/2010		0	blank	blank
1/11/2010		0	blank	blank
1/12/2010		0	blank	blank
1/13/2010		0	blank	blank
1/14/2010	1500	0	blank	blank
1/15/2010		0	blank	blank
1/16/2010		0	blank	blank
1/17/2010		0.24	blank	blank
1/18/2010		0.26	blank	blank
1/19/2010		0	blank	blank
1/20/2010		0	blank	blank
1/21/2010	10300	0	blank	blank
1/22/2010		0	blank	blank
1/23/2010		0.01	blank	blank

Enclosure A: DMR data for flow and precipitation.

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
1/24/2010		1.45	blank	blank
1/25/2010		0.04	blank	blank
1/26/2010		0.01	blank	blank
1/27/2010		0.08	blank	blank
1/28/2010	7200	0	blank	blank
1/29/2010		0	blank	blank
1/30/2010		0	blank	blank
1/31/2010		0	blank	blank
2/1/2010		0	blank	blank
2/2/2010		0	blank	blank
2/3/2010		0	blank	blank
2/4/2010	5000	0	blank	blank
2/5/2010		0.55	blank	blank
2/6/2010		0.67	blank	blank
2/7/2010		0	blank	blank
2/8/2010		0	blank	blank
2/9/2010		0.35	blank	blank
2/10/2010		0.03	blank	blank
2/11/2010		0	blank	blank
2/12/2010	4200	0	blank	blank
2/13/2010		0	blank	blank
2/14/2010		0	blank	blank
2/15/2010		0.23	blank	blank
2/16/2010		0.07	blank	blank
2/17/2010		0	blank	blank
2/18/2010	4200	0	blank	blank
2/19/2010		0	blank	blank
2/20/2010		0	blank	blank
2/21/2010		0	blank	blank
2/22/2010		0	blank	blank
2/23/2010		0	blank	blank
2/24/2010		0.05	blank	blank
2/25/2010		0.01	blank	blank
2/26/2010	ac	0	blank	blank
2/27/2010		0	blank	blank
2/28/2010		0	blank	blank
3/1/2010		0	ac	0
3/2/2010		0		0
3/3/2010	7000	0		0
3/4/2010		0		0
3/5/2010		0		0
3/6/2010		0		0

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
3/7/2010		0		0
3/8/2010		0		0
3/9/2010		0		0
3/10/2010		0		0
3/11/2010	5000	0	1500	0
3/12/2010		0		0
3/13/2010		0		0
3/14/2010		0.57		0.57
3/15/2010		0.01	ac	0.01
3/16/2010		0		0
3/17/2010	5000	0		0
3/18/2010		0		0
3/19/2010		0		0
3/20/2010		0		0
3/21/2010		0.33		0.33
3/22/2010		0.51	ac	0.51
3/23/2010		0.02		0.02
3/24/2010	2500	0		0
3/25/2010		0.76		0.76
3/26/2010		0		0
3/27/2010		0		0
3/28/2010		0.35		0.35
3/29/2010		0		0
3/30/2010		0		0
3/31/2010		0		0
4/1/2010	2500	0	blank	blank
4/2/2010		0	blank	blank
4/3/2010		0	blank	blank
4/4/2010		0	blank	blank
4/5/2010		0.1	blank	blank
4/6/2010	2200	0	blank	blank
4/7/2010		0	blank	blank
4/8/2010		0.22	blank	blank
4/9/2010		0	blank	blank
4/10/2010		0	blank	blank
4/11/2010		0	blank	blank
4/12/2010		0	blank	blank
4/13/2010		0	blank	blank
4/14/2010	1200	0.01	blank	blank
4/15/2010		0	blank	blank
4/16/2010		0.21	blank	blank
4/17/2010		0	blank	blank

Enclosure A: DMR data for flow and precipitation.

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
4/18/2010		0	blank	blank
4/19/2010		0	blank	blank
4/20/2010		0	blank	blank
4/21/2010	1200	0	blank	blank
4/22/2010		0	blank	blank
4/23/2010		0.03	blank	blank
4/24/2010		0	blank	blank
4/25/2010		0.36	blank	blank
4/26/2010		0.21	blank	blank
4/27/2010	540	0	blank	blank
4/28/2010		0	blank	blank
4/29/2010		0	blank	blank
4/30/2010		0	blank	blank
5/1/2010		0.15	blank	blank
5/2/2010		1.77	blank	blank
5/3/2010		0	blank	blank
5/4/2010		0	blank	blank
5/5/2010		0.06	blank	blank
5/6/2010	2800	0	blank	blank
5/7/2010		0.04	blank	blank
5/8/2010		0	blank	blank
5/9/2010		0	blank	blank
5/10/2010		0.69	blank	blank
5/11/2010		0.15	blank	blank
5/12/2010		0	blank	blank
5/13/2010		0	blank	blank
5/14/2010	2880	0	blank	blank
5/15/2010		0	blank	blank
5/16/2010		0.22	blank	blank
5/17/2010		1.33	blank	blank
5/18/2010		0.12	blank	blank
5/19/2010		0.03	blank	blank
5/20/2010		0	blank	blank
5/21/2010	5400	0	blank	blank
5/22/2010		0.49	blank	blank
5/23/2010		0	blank	blank
5/24/2010		0	blank	blank
5/25/2010		0	blank	blank
5/26/2010		0	blank	blank
5/27/2010		0	blank	blank
5/28/2010	2500	0	blank	blank
5/29/2010		0	blank	blank

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
5/30/2010		0	blank	blank
5/31/2010		0.47	blank	blank
6/1/2010		0	blank	blank
6/2/2010		0.44	blank	blank
6/3/2010		0.02	blank	blank
6/4/2010	1500	0	blank	blank
6/5/2010		3	blank	blank
6/6/2010		0.63	blank	blank
6/7/2010		0	blank	blank
6/8/2010	8500	0.37	blank	blank
6/9/2010		0.37	blank	blank
6/10/2010		0.25	blank	blank
6/11/2010		0.3	blank	blank
6/12/2010		0.27	blank	blank
6/13/2010		0	blank	blank
6/14/2010		0.05	blank	blank
6/15/2010		0	blank	blank
6/16/2010		0	blank	blank
6/17/2010		0	blank	blank
6/18/2010	2800	0	blank	blank
6/19/2010		0	blank	blank
6/20/2010		0	blank	blank
6/21/2010		0.27	blank	blank
6/22/2010		0.16	blank	blank
6/23/2010		1.1	blank	blank
6/24/2010		0	blank	blank
6/25/2010	1850	0	blank	blank
6/26/2010		0	blank	blank
6/27/2010		0.12	blank	blank
6/28/2010		0.11	blank	blank
6/29/2010		0	blank	blank
6/30/2010		0	blank	blank
7/1/2010		0	blank	blank
7/2/2010	1850	0	blank	blank
7/3/2010		0	blank	blank
7/4/2010		0	blank	blank
7/5/2010		0	blank	blank
7/6/2010		0	blank	blank
7/7/2010		0	blank	blank
7/8/2010	1050	0	blank	blank
7/9/2010		1.69	blank	blank
7/10/2010		0	blank	blank

Enclosure A: DMR data for flow and precipitation.

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
7/11/2010		0.01	blank	blank
7/12/2010		0	blank	blank
7/13/2010		0.44	blank	blank
7/14/2010		0	blank	blank
7/15/2010		0	blank	blank
7/16/2010	1100	0.27	blank	blank
7/17/2010		0.68	blank	blank
7/18/2010		0.02	blank	blank
7/19/2010		0	blank	blank
7/20/2010		0	blank	blank
7/21/2010		0	blank	blank
7/22/2010		0	blank	blank
7/23/2010	700	0	blank	blank
7/24/2010		0	blank	blank
7/25/2010		0.61	blank	blank
7/26/2010		0	blank	blank
7/27/2010		0	blank	blank
7/28/2010		0	blank	blank
7/29/2010	1500	0.46	blank	blank
7/30/2010		0	blank	blank
7/31/2010		0	blank	blank
8/1/2010		0.04	blank	blank
8/2/2010		0	blank	blank
8/3/2010		0	blank	blank
8/4/2010		0.61	blank	blank
8/5/2010		0	blank	blank
8/6/2010	1300	0	blank	blank
8/7/2010		0	blank	blank
8/8/2010		0	blank	blank
8/9/2010		0	blank	blank
8/10/2010		0.01	blank	blank
8/11/2010		0	blank	blank
8/12/2010	1000	0	blank	blank
8/13/2010		0	blank	blank
8/14/2010		0	blank	blank
8/15/2010		0	blank	blank
8/16/2010		0	blank	blank
8/17/2010		0	blank	blank
8/18/2010		0	blank	blank
8/19/2010		0	blank	blank
8/20/2010	1250	0	blank	blank
8/21/2010		0	blank	blank
8/22/2010		1.29	blank	blank
8/23/2010		0	blank	blank
8/24/2010		0	blank	blank
8/25/2010		0	blank	blank
8/26/2010		0	blank	blank
8/27/2010		0	blank	blank
8/28/2010	300	0	blank	blank
8/29/2010		0	blank	blank
8/30/2010		0	blank	blank
8/31/2010		0	blank	blank
10/1/2010	blank	blank	blank	blank
10/2/2010	blank	blank	blank	blank
10/3/2010	blank	blank	blank	blank
10/4/2010	blank	blank	blank	blank
10/5/2010	blank	blank	blank	blank
10/6/2010	blank	blank	blank	blank
10/7/2010	blank	blank	blank	blank
10/8/2010	blank	blank	blank	blank
10/9/2010	blank	blank	blank	blank
10/10/2010	blank	blank	blank	blank
10/11/2010	blank	blank	blank	blank
10/12/2010	blank	blank	blank	blank
10/13/2010	blank	blank	blank	blank
10/14/2010	blank	blank	blank	blank
10/15/2010	blank	blank	blank	blank
10/16/2010	blank	blank	blank	blank
10/17/2010	blank	blank	blank	blank
10/18/2010	blank	blank	blank	blank
10/19/2010	blank	blank	blank	blank
10/20/2010	blank	blank	blank	blank
10/21/2010	blank	blank	blank	blank
10/22/2010	blank	blank	blank	blank
10/23/2010	blank	blank	blank	blank
10/24/2010	blank	blank	blank	blank
10/25/2010	blank	blank	blank	blank
10/26/2010	blank	blank	blank	blank
10/27/2010	blank	blank	blank	blank
10/28/2010	blank	blank	blank	blank
10/29/2010	blank	blank	blank	blank
10/30/2010	blank	blank	blank	blank
10/31/2010	blank	blank	blank	blank
11/1/2010	blank	blank	blank	blank

Enclosure A: DMR data for flow and precipitation.

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
11/2/2010	blank	blank	blank	blank
11/3/2010	blank	blank	blank	blank
11/4/2010	blank	blank	blank	blank
11/5/2010	blank	blank	blank	blank
11/6/2010	blank	blank	blank	blank
11/7/2010	blank	blank	blank	blank
11/8/2010	blank	blank	blank	blank
11/9/2010	blank	blank	blank	blank
11/10/2010	blank	blank	blank	blank
11/11/2010	blank	blank	blank	blank
11/12/2010	blank	blank	blank	blank
11/13/2010	blank	blank	blank	blank
11/14/2010	blank	blank	blank	blank
11/15/2010	blank	blank	blank	blank
11/16/2010	blank	blank	blank	blank
11/17/2010	blank	blank	blank	blank
11/18/2010	blank	blank	blank	blank
11/19/2010	blank	blank	blank	blank
11/20/2010	blank	blank	blank	blank
11/21/2010	blank	blank	blank	blank
11/22/2010	blank	blank	blank	blank
11/23/2010	blank	blank	blank	blank
11/24/2010	blank	blank	blank	blank
11/25/2010	blank	blank	blank	blank
11/26/2010	blank	blank	blank	blank
11/27/2010	blank	blank	blank	blank
11/28/2010	blank	blank	blank	blank
11/29/2010	blank	blank	blank	blank
11/30/2010	blank	blank	blank	blank
12/1/2010		0.04	blank	blank
12/2/2010		0	blank	blank
12/3/2010	ac	0	blank	blank
12/4/2010		0	blank	blank
12/5/2010		0.03	blank	blank
12/6/2010		0	blank	blank
12/7/2010		0.01	blank	blank
12/8/2010		0	blank	blank
12/9/2010		0	blank	blank
12/10/2010	ac	0	blank	blank
12/11/2010		0.1	blank	blank
12/12/2010		0.48	blank	blank
12/13/2010		0	blank	blank

Date	Outfall 001/023 flow (gpm)	Outfall 001/023 precip (in)	Outfall 002/024 flow (gpm)	Outfall 002/024 precip (in)
12/14/2010		0	blank	blank
12/15/2010		0	blank	blank
12/16/2010	540	0.03	blank	blank
12/17/2010		0	blank	blank
12/18/2010		0	blank	blank
12/19/2010		0	blank	blank
12/20/2010		0	blank	blank
12/21/2010		0	blank	blank
12/22/2010		0	blank	blank
12/23/2010	ac	0	blank	blank
12/24/2010		0	blank	blank
12/25/2010		0	blank	blank
12/26/2010		0	blank	blank
12/27/2010		0	blank	blank
12/28/2010		0	blank	blank
12/29/2010		0	blank	blank
12/30/2010		0	blank	blank
12/31/2010		0	blank	blank

Enclosure A 2

The DMR data are summarized below.

Table 1: Summary of DMR data for outfalls 001 and 002, submitted to USEPA by AEC in response to EPA's CWA 308 information request of February 14, 2011

Total times flow was Measured	38
Total times Flow Measurement Attempted and No Flow was found	4
Total times Flow Measurement Attempted	42
% of Time flow measured when attempted	90.5%
# of Times Flow Measurement corresponds to 0 inches precipitation	31
% of Times Flow Measurement corresponds to 0 inches precipitation	81.6%

Enclosure B: comparison of BMP's included in the Bennoc permit with ODNR requirements

The BMP's included in the proposed permit can be found in Part II, Section J "Best Management Practices for Minimizing Discharges of Total Dissolved Solids", and also below in column A. Column B contains a small subset of Ohio's regulations concerning similar practices as they relate to coal mining. As you can see, each of the BMP's presented in the permit include practices already required by ODNR:

BMP included in permit	Similar practice described in Ohio Admin Code, under Ohio DNR's regulations at OAC 1501:13-9-04
1. Before beginning coarse refuse disposal operations, the permittee shall develop a plan for the control of surface water drainage. The permittee shall:	(A) General. Mining shall be planned and conducted to minimize disturbance to the prevailing hydrologic balance in both the permit and adjacent areas, to prevent material damage to the hydrologic balance outside the permit area, to assure the protection or replacement of water rights, and to support approved postmining land uses in accordance with the terms and conditions of the approved permit and the requirements of mining and reclamation rules. The chief may require additional preventive, remedial, or monitoring measures to assure that material damage to the hydrologic balance outside the permit area is prevented. Mining and reclamation practices that minimize water pollution and changes in flow shall be used in preference to water treatment.
a. Disturb the smallest practicable area at any time during coarse refuse fill operations;	(D)(3)(a) Disturbing the smallest practicable area at any one time during the mining operation through progressive backfilling and grading…,
b. Place coarse refuse to avoid runoff of coal refuse-impacted water into locations other than treatment ponds;	(B)(1) All surface drainage from the disturbed area, including disturbed areas that have been graded, seeded, or planted, shall be passed through a sedimentation pond or a series of sedimentation ponds before leaving the permit area until vegetation is established, at which time vegetation of the area may be the best technology currently available, provided that drainage from the area: (a) Meets effluent limitations; and (b) Does not contribute suspended solids to streamflow.
c. In accordance with ODNR approved coal waste plan, stabilize and compact fill material to promote a reduction in the rate and volume of runoff, and to minimize the penetration of precipitation into the fill;	(D)(3)(b) Stabilizing the backfill material to promote a reduction in the rate and volume of runoff, in accordance with the requirements of rule 1501:13-9-14 of the Administrative Code;
d. To the extent practicable, divert runoff away from disturbed areas; and	(D)(3)(d) Diverting runoff away from disturbed areas;
e. Reclaim filled areas as soon as practicable following filling, in accordance with the ODNR approved coal waste plan.	(D)(3)(a) …and prompt revegetation as required in rule 1501:13-9-15 of the Administrative Code.
2. Rills and gullies shall be filled or regarded minimize erosion	(D)(3)(e) Diverting runoff using protected channels or pipes through disturbed areas so as not to cause additional erosion;
3. Discharge volumes shall be minimized during low-flow conditions in the receiving waters.	(B)(2) Sedimentation ponds and other treatment facilities shall be maintained until the quality of the untreated drainage from the disturbed area meets the applicable state and federal water quality standard requirements.

INVOICED

TRA-DET INC.
P.O. BOX 2019
WHEELING, WV 26003-0219
(304) 547-9094
FAX: (304) 547-9097

SHIPPING ADDRESS
2583 BATTLE RUN ROAD
TRIADELPHIA, WV 26059-9309

LABORATORY ANALYSES

American Energy Corporation
Century Mine
43521 Mayhugh Hill Road Twp. Hwy. 88
Beallsville, OH 43716
Attn: Mr. Fred Blumling

26-Jun-09

By: William Simpson
TraDet, Inc.

Company:	American Energy Corporation	Sampled By:	QES (WD)
Plant:	Century Mine	Date & Time Sampled:	06-05-09 0951
Source:	D-0425 Pond 013	Date & Time Received:	06-05-09 1330
Analysis Number:	0906194		

PARAMETER	CONCENTRATION		DATE & TIME ANALYZED	ANALYST	METHOD		PQL	
pH, Field	7.8	S.U.	06-05-09 0951	QES (WD)				
pH, Lab*	7.87	S.U.	06-09-09 0750	TW	4500HB	[2]		
Specific Conductance, Lab	8880	µmhos/cm	06-18-09 1625	LW	120.1	[3]	10.00	µmhos/cm
Total Dissolved Solids	6860	mg/L	06-06-09 1015	MM	2540C	[2]	10	mg/L
Total Suspended Solids	<10	mg/L	06-06-09 1015	MM	2540D	[2]	10	mg/L
Iron	0.2	mg/L	06-11-09-1744	TW	3111B	[1]	0.1	mg/L
Manganese	1.5	mg/L	06-11-09-1744	TW	3111B	[1]	0.02	mg/L

*Analysis surpassed recommended holding time upon arrival
PQL: Practical Quantitation Limit
[1] Standard Methods, 18th Edition [2] Standard Methods, 20th Edition [3] US EPA [4] ASTM [5] EPA SW846

Chain Of Custody Record

Customer Name: *American Energy Corporation - Century Mine*
Address: 43521 Mayhugh Hill Road Twp. Hwy. 88
Beallsville, OH 43716

Person to Contact: FRED BLUMLING
Billing Address: Same
Date of Sample Shipment: 6-5-09
How Shipped: [illegible] AT MINE, [illegible]

724-255-4691 AEC - Century
740-782-1767 QES
740-782-1905 QES FAX
304-547-9094 TRADET LAB
304-547-9097 TRADET FAX

Sampler: Quality Environmental Services, Inc. (QES)

SAMPLE LOG AND ANALYSIS REQUEST

Lab Use: Lab #	Sample Identification	Containers # and Type	Date	Time	pH / DO	Analysis Requested
[illegible]	D-0825 Pond 002	1-500 mL w/ [illegible] HNO3	6-5	0852	8.6	Monthly
[illegible]	D-0825 Pond 005			0925	8.3	
[illegible]	D-0825 Pond 011			0910	8.5	
[illegible]	D-0825 Pond 013			0951	7.8	
[illegible]	D-0825 Pond 015			1010	8.5	

Relinquished by: (signature) [illegible] Date & Time: 6-5 @ 1200
Relinquished by: (signature) [illegible] Date & Time: 6/5 - [illegible]
Received for laboratory by: (signature) Date & Time:
Received in laboratory by: (signature) [illegible] Date & Time: 6/5 1530

Comments:

Preservative Check
Received On Ice Y / N
Temperature Upon Arrival °C

INVOICED

TRA-DET INC.
P.O. BOX 2019
WHEELING, WV 26003-0219
(304) 547-8094
FAX: (304) 547-8097

SHIPPING ADDRESS
2593 BATTLE RUN ROAD
TRIADELPHIA, WV 26059-9609

LABORATORY ANALYSES

American Energy Corporation
Century Mine
43521 Mayhugh Hill Road Twp. Hwy. 88
Beallsville, OH 43716
Attn: Mr. Fred Blumling

13-Jul-09

By: William Thagard
TraDet, Inc.

Company:	American Energy Corporation	Sampled By:	QES (WD)
Plant:	Century Mine	Date & Time Sampled:	06-25-09 1010
Source:	D-1159 Pond 001	Date & Time Received:	06-26-09 0830
Analysis Number:	0906733		

PARAMETER	CONCENTRATION		DATE & TIME ANALYZED	ANALYST	METHOD		PQL	
pH, Field	8.1	S.U.	06-25-09 1010	QES (WD)				
pH, Lab*	8.24	S.U.	06-29-08 0845	MM	4500HB	[2]		
Specific Conductance, Lab	7480	µmhos/cm	07-01-09 1130	LW	120.1	[3]	10.00	µmhos/cm
Total Dissolved Solids	4780	mg/L	06-27-09 1115	MM	2540C	[2]	10	mg/L
Total Suspended Solids	<10	mg/L	06-27-09 1115	MM	2540D	[2]	10	mg/L
Iron	0.1	mg/L	07-06-09 1400	TW	3111B	[1]	0.1	mg/L
Manganese	0.03	mg/L	07-06-09 1400	TW	3111B	[1]	0.02	mg/L

*Analysis surpassed recommended holding time upon arrival
PQL: Practical Quantitation Limit
[1] Standard Methods, 18th Edition [2] Standard Methods, 20th Edition [3] US EPA [4] ASTM [5] EPA SW846

Chain Of Custody Record

Customer Name: American Energy Corporation - Century Mine
Address: 43521 Mayhugh Hill Road Twp. Hwy. 88
Beallsville, OH 43716
Person to Contact: FRED BLUMLING
Billing Address: Same
Date of Sample Shipment: 6-25-09
How Shipped: QES TO FRIDGE AT MINE PICKED UP BY LAB

724-255-4691 AEC - Century
740-782-1767 QES
740-782-1905 QES FAX
304-547-8094 TRADET LAB
304-547-8097 TRADET FAX
Sampler: Quality Environmental Services, Inc. (QES)

SAMPLE LOG AND ANALYSIS REQUEST

Lab Use: Lab #	Sample Identification	Containers # and Type	Date	Time	pH DO	Analysis Requested
	D-1159 Pond 001	1-500 ml NS 1-125 ml HNO3	6-25	1010	8.1	MONTHLY
	D-1159 Pond 002	"	"	1130	8.0	MONTHLY

Relinquished by: (signature) [signature] Date & Time: 6-25 @ 1155
Relinquished by: (signature) Date & Time:
Received for laboratory by: (signature) [signature] Date & Time: 6-26 @ 1:00
Received in laboratory by: (signature) [signature] Date & Time: 6/26 8:30
Comments:

Preservative Check
Received On Ice Y/N
Temperature Upon Arrival °C