Analysis Report

May 02, 2011

Usibelli Coal Mine, Inc.
P.O. Box 1000
Healy, AK 99743
USA

Client Sample ID:	GVEA Ash pile 4/13/11	**Date Sampled :**	4/13/2011
Date Received:	04/18/2011	**Sample ID :**	KC
Matrix:	Coal	**Sample Type :**	-1" Moist
Net Sample Weight:	631.50 g	**Time Sampled :**	1:30 pm

SGS Minerals Sample ID: 072-52394-001

		As Received
% Moisture, Total	[ASTM D 3302]	28.11

Tests	Result	Unit	Method
Trace Analysis Basis	Dry		
Barium	3050	ug/g	ASTM D 3683 mod./ICP
Cadmium	<3	ug/g	ASTM D 3683 mod./ICP
Chromium	135	ug/g	ASTM D 3683 mod./ICP
Lead, Total	27	ug/g	ASTM D 3683 mod./ICP
Silver	<3	ug/g	ASTM D 3683 mod./ICP
Vanadium	283	ug/g	ASTM D 3683 mod./ICP
Arsenic	18	ug/g	ASTM D 3684/6357
Selenium	8	ug/g	ASTM D 3684/6357
Mercury, Dry	0.29	ug/g	ASTM D 6722
Vanadium - TCLP	<0.1	mg/L	SW1311/SW6010B

Somer Rodriguez, Denver Laboratory

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Date Received:	04/18/2011	**Sample ID :**	KC
Matrix:	Coal	**Sample Type :**	-1" Moist
Net Sample Weight:	631.50 g	**Time Sampled :**	1:30 pm

SGS Minerals Sample ID: 072-52394-001

Tests	Result	Unit	Method
Arsenic - TCLP	<0.1	mg/L	SW1311/SW6010C
Barium - TCLP	0.7	mg/L	SW1311/SW6010C
Cadmium - TCLP	<0.1	mg/L	SW1311/SW6010C
Chromium - TCLP	<0.1	mg/L	SW1311/SW6010C
Lead - TCLP	<0.1	mg/L	SW1311/SW6010C
Selenium - TCLP	<0.1	mg/L	SW1311/SW6010C
Silver - TCLP	<0.1	mg/L	SW1311/SW6010C
Mercury - TCLP	<0.1	mg/L	SW1311/SW6010C

Method Reference(s):
"Test Methods for Evaluating Solid Waste", U.S. Environmental Protection Agency, SW-846, 3rd Edition November, 1986

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Analysis Report

May 09, 2011

Usibelli Coal Mine, Inc.
P.O. Box 1000
Healy, AK 99743
USA

Client Sample ID:	GVEA Ash 4/20/11	**Date Sampled :**	4/20/2011
Date Received:	04/27/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Coal		
Net Sample Weight:	922.20 g		

SGS Minerals Sample ID: 072-52534-001

		As Received
% Moisture, Total	[ASTM D 3302]	27.54

Tests	Result	Unit	Method
Trace Analysis Basis	Dry		
Barium	3370	ug/g	ASTM D 3683 mod./ICP
Cadmium	<2	ug/g	ASTM D 3683 mod./ICP
Chromium	149	ug/g	ASTM D 3683 mod./ICP
Lead, Total	28	ug/g	ASTM D 3683 mod./ICP
Silver	<2	ug/g	ASTM D 3683 mod./ICP
Vanadium	272	ug/g	ASTM D 3683 mod./ICP
Arsenic	19	ug/g	ASTM D 3684/6357
Selenium	5	ug/g	ASTM D 3684/6357
Mercury, Dry	0.27	ug/g	ASTM D 6722
Vanadium - TCLP	<0.01	mg/L	SW1311/SW6010B

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Analysis Report

May 09, 2011

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P.O. Box 1000
Healy, AK 99743
USA

Client Sample ID:	GVEA Ash 4/20/11	**Date Sampled :**	4/20/2011
Date Received:	04/27/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Coal		
Net Sample Weight:	922.20 g		

SGS Minerals Sample ID: 072-52534-001

Tests	Result	Unit	Method
Arsenic - TCLP	<0.1	mg/L	SW1311/SW6010C
Barium - TCLP	0.9	mg/L	SW1311/SW6010C
Cadmium - TCLP	<0.1	mg/L	SW1311/SW6010C
Chromium - TCLP	<0.1	mg/L	SW1311/SW6010C
Lead - TCLP	<0.1	mg/L	SW1311/SW6010C
Selenium - TCLP	<0.1	mg/L	SW1311/SW6010C
Silver - TCLP	<0.1	mg/L	SW1311/SW6010C
Mercury - TCLP	<0.1	mg/L	SW1311/SW6010C

Method Reference(s):
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Analysis Report

May 10, 2011

Usibelli Coal Mine, Inc.
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USA

Client Sample ID:	GVEA Ash 4/28/11 KC	**Date Sampled :**	4/20/2011
Date Received:	05/02/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Coal		
Net Sample Weight:	1036.60 g		

SGS Minerals Sample ID: 072-52624-001

		As Received
% Moisture, Total	[ASTM D 3302]	31.73

Tests	Result	Unit	Method
Trace Analysis Basis	Dry		
Barium	3410	ug/g	ASTM D 3683 mod./ICP
Cadmium	<2.1	ug/g	ASTM D 3683 mod./ICP
Chromium	148	ug/g	ASTM D 3683 mod./ICP
Lead, Total	42	ug/g	ASTM D 3683 mod./ICP
Silver	<2	ug/g	ASTM D 3683 mod./ICP
Vanadium	262	ug/g	ASTM D 3683 mod./ICP
Arsenic	23	ug/g	ASTM D 3684/6357
Selenium	5	ug/g	ASTM D 3684/6357
Mercury, Dry	0.39	ug/g	ASTM D 6722
Vanadium - TCLP	<0.01	mg/L	SW1311/SW6010B

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Client Sample ID:	GVEA Ash 4/28/11 KC	**Date Sampled :**	4/20/2011
Date Received:	05/02/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Coal		
Net Sample Weight:	1036.60 g		

SGS Minerals Sample ID: 072-52624-001

Tests	Result	Unit	Method
Arsenic - TCLP	<0.1	mg/L	SW1311/SW6010C
Barium - TCLP	0.7	mg/L	SW1311/SW6010C
Cadmium - TCLP	<0.1	mg/L	SW1311/SW6010C
Chromium - TCLP	<0.1	mg/L	SW1311/SW6010C
Lead - TCLP	<0.1	mg/L	SW1311/SW6010C
Selenium - TCLP	<0.1	mg/L	SW1311/SW6010C
Silver - TCLP	<0.1	mg/L	SW1311/SW6010C
Mercury - TCLP	<0.1	mg/L	SW1311/SW6010C

Method Reference(s):
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Analysis Report

May 23, 2011

Usibelli Coal Mine, Inc.
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USA

Client Sample ID:	Geva Ash 5/4/11	**Date Sampled :**	5/4/2011
Date Received:	05/16/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Ash		
Net Sample Weight:	627.10 g		

SGS Minerals Sample ID: 072-52929-001

		As Received
% Moisture, Total	[ASTM D 3302]	24.61

Tests	Result	Unit	Method
Trace Analysis Basis	Dry		
Barium	3090	ug/g	ASTM D 3683 mod./ICP
Cadmium	<2	ug/g	ASTM D 3683 mod./ICP
Chromium	144	ug/g	ASTM D 3683 mod./ICP
Lead, Total	30	ug/g	ASTM D 3683 mod./ICP
Silver	<2	ug/g	ASTM D 3683 mod./ICP
Vanadium	261	ug/g	ASTM D 3683 mod./ICP
Arsenic	17	ug/g	ASTM D 3684/6357
Selenium	7	ug/g	ASTM D 3684/6357
Mercury, Dry	0.21	ug/g	ASTM D 6722
Vanadium - TCLP	<0.1	mg/L	SW1311/SW6010B

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Date Received:	05/16/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Ash		
Net Sample Weight:	627.10 g		

SGS Minerals Sample ID: 072-52929-001

Tests	Result	Unit	Method
Arsenic - TCLP	<0.1	mg/L	SW1311/SW6010C
Barium - TCLP	0.8	mg/L	SW1311/SW6010C
Cadmium - TCLP	<0.1	mg/L	SW1311/SW6010C
Chromium - TCLP	<0.1	mg/L	SW1311/SW6010C
Lead - TCLP	<0.1	mg/L	SW1311/SW6010C
Selenium - TCLP	<0.1	mg/L	SW1311/SW6010C
Silver - TCLP	<0.1	mg/L	SW1311/SW6010C
Mercury - TCLP	<0.1	mg/L	SW1311/SW6010C

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Client Sample ID:	Geva Ash 5/11/11	**Date Sampled :**	5/11/2011
Date Received:	05/16/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Ash		
Net Sample Weight:	608.30 g		

SGS Minerals Sample ID: 072-52929-002

		As Received
% Moisture, Total	[ASTM D 3302]	30.33

Tests	Result	Unit	Method
Trace Analysis Basis	Dry		
Barium	3530	ug/g	ASTM D 3683 mod./ICP
Cadmium	<2	ug/g	ASTM D 3683 mod./ICP
Chromium	156	ug/g	ASTM D 3683 mod./ICP
Lead, Total	38	ug/g	ASTM D 3683 mod./ICP
Silver	<2	ug/g	ASTM D 3683 mod./ICP
Vanadium	273	ug/g	ASTM D 3683 mod./ICP
Arsenic	18	ug/g	ASTM D 3684/6357
Selenium	9	ug/g	ASTM D 3684/6357
Mercury, Dry	0.27	ug/g	ASTM D 6722
Vanadium - TCLP	<0.1	mg/L	SW1311/SW6010B

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Client Sample ID:	Geva Ash 5/11/11	**Date Sampled :**	5/11/2011
Date Received:	05/16/2011	**Sample Type :**	-60 Mesh Wet
Matrix:	Ash		
Net Sample Weight:	608.30 g		

SGS Minerals Sample ID: 072-52929-002

Tests	Result	Unit	Method
Arsenic - TCLP	<0.1	mg/L	SW1311/SW6010C
Barium - TCLP	0.9	mg/L	SW1311/SW6010C
Cadmium - TCLP	<0.1	mg/L	SW1311/SW6010C
Chromium - TCLP	<0.1	mg/L	SW1311/SW6010C
Lead - TCLP	<0.1	mg/L	SW1311/SW6010C
Selenium - TCLP	<0.1	mg/L	SW1311/SW6010C
Silver - TCLP	<0.1	mg/L	SW1311/SW6010C
Mercury - TCLP	<0.1	mg/L	SW1311/SW6010C

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