APPENDIX 6-2

Acid- and Toxic-Forming Information

and

Preliminary Radiation Assessment

Appendix 6-2
Data Gathering Summary

This appendix contains the results of physical and chemical laboratory acid- and toxic-forming analysis of samples collected in the Coal Hollow Project area. The laboratory analyses were performed by Energy Laboratories, Inc. of Billings, Montana. The comprehensive list of laboratory analytical parameters was developed in consultation with the Utah Division of Oil, Gas and Mining. Sample identifications, laboratory sample numbers, sample intervals and types, and lithologic descriptions of samples are presented in the summary table in this appendix. Sample locations are shown in the location map in this appendix.

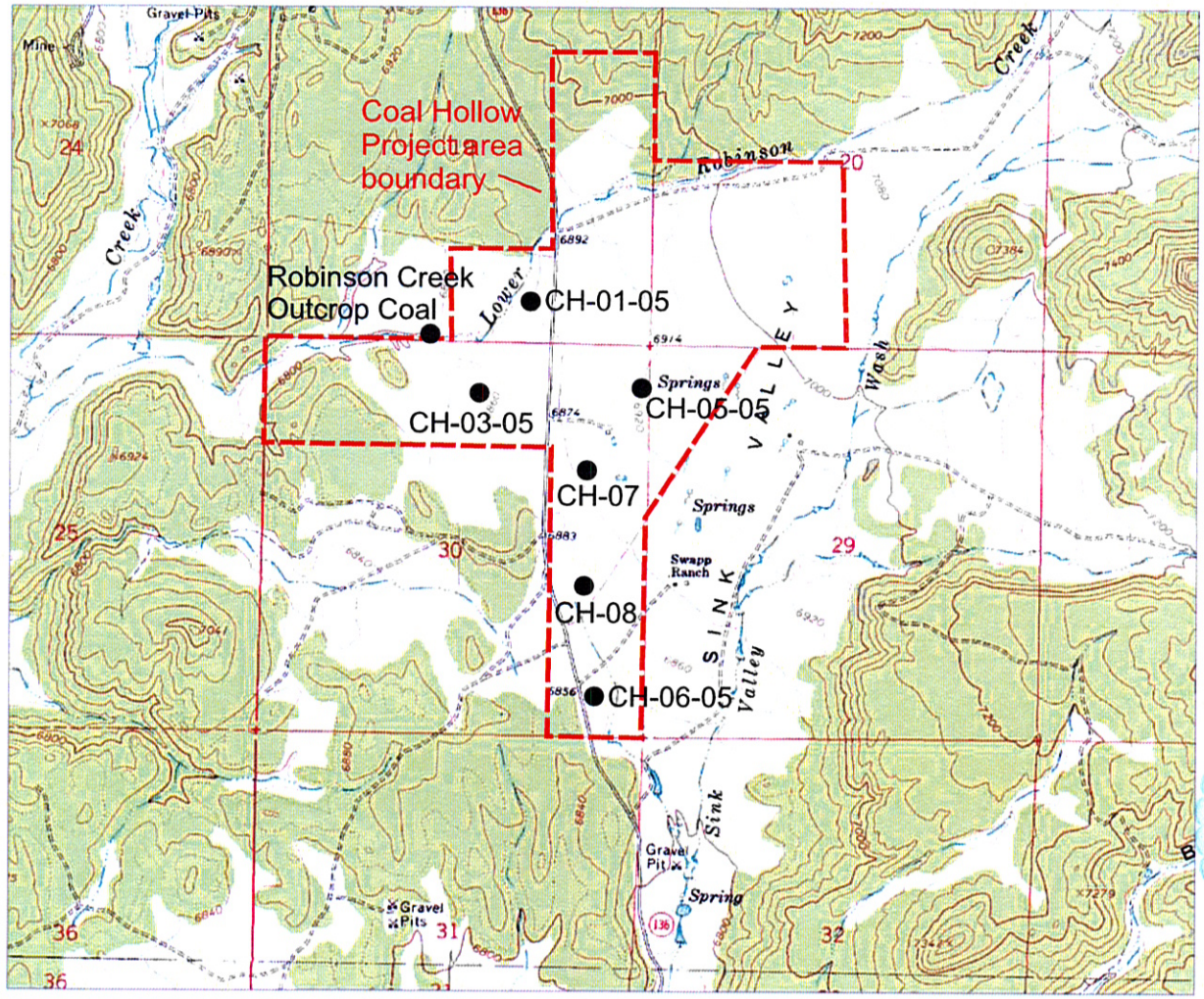
Sediment, bedrock, and coal samples were collected from several locations within the project area for analysis of acid- and toxic-forming potential. A sample of coal from the Smirl Coal Zone was collected from an outcrop in the Lower Robinson Creek drainage. The other samples were collected from the drill hole locations shown on the location map in this appendix. Samples at the drill hole locations were collected using various techniques (as detailed in the summary table in this appendix) including core composite samples, drill cutting grab samples, and grab samples from track-hoe pit excavations.

Drill holes CH-01-05, CH-03-05, CH-05-05, and CH-06-05 were drilled during the 2005 drilling program. Drill hole CH-02-05 was a planned coal exploration hole located outside the proposed mining areas that was drilled at a later time. Due to drilling complications, drill hole CH-02-05 could not be advanced to the coal seam and, subsequently, was abandoned. Drill hole CH-04-05 was permitted in 2005, but was not drilled. This exploration drilling program was designed primarily for the purposes of determining coal thicknesses and for obtaining samples for coal quality and geotechnical analysis. As a secondary purpose, samples were collected for acid- and toxic-forming chemical analysis. In these holes, the upper approximately 40 feet of the hole was drilled using auger drilling techniques. Representative grab samples of the shallow sediments were collected from the strata encountered in the holes and selected samples were sent for physical and chemical acid- and toxic-forming analysis. Composite samples of the cored intervals were prepared from 10-foot depth intervals and selected composite samples were sent to the laboratory for physical and chemical acid- and toxic-forming analysis.

In December 2007, a drilling program was implemented for the purpose of obtaining additional samples for acid- and toxic-forming laboratory analysis and for obtaining additional geologic information from the overburden strata. The December 2007 holes included CH-07 and CH-08. Drill hole CH-07, which was drilled using auger and air-rotary drilling techniques, was drilled to a depth of 46 feet within the Tropic Shale. Limitations in the drilling technique combined with geologic conditions prohibited drilling to deeper depths in CH-07. Drill Hole CH-08 was drilled using auger, air-rotary, and core drilling techniques. CH-08 was drilled through the overburden and Smirl Zone coal seam and into the Dakota Formation underburden to a depth of 103 feet. Composite samples from both of these drill holes were prepared and sent to the laboratory for physical and chemical acid-and toxic-forming analysis.

112° 28' 45.517" W
37° 24' 36.220" N

112° 25' 29.180" W
37° 24' 38.632" N



37° 22' 25.703" N
112° 28' 42.952" W

37° 22' 28.112" N
112° 25' 26.710" W

1/23/08

0 ¼ ½ 1 Mile

0 1000 2000 3000 5000 Feet

0 0.5 1 Kilometer

1927 North American Datum; UTM grid zone 12
Generated by BigTopo7 (www.igage.com)
Map compiled from USGS Quads: Alton; UT
Bald Knoll; UT

UTM Grid and 2006 Magnetic North Declination at Center of Sheet
GN to TN 0.682° (16 mils)
TN to MN 12.973° (231 mils)

Location map for Appendix 6-2 Coal Hollow Project acid-and toxic-forming sample locations.

Appendix 6-2

Sample identification table for acid and toxic forming laboratory analyses (Energy Laboratories laboratory reports)

Sample ID	Lab ID	Sample location and type	Stratigraphic interval of sample	Lithologic description of sample
CH-05-05 Core Composite Samples				
Box 1 CH-5 Overburden	B06030458-001	CH-05-05 core composite sample	Tropic shale; 94.3 to 104.3 feet above base	Carbonaceous shale/clayst., minor shaley siltst.
Box 2 CH-5 Overburden	B06030458-002	CH-05-05 core composite sample	Tropic Shale; 84.3 to 94.3 feet above base	Carbonaceous shale/claystone
Box 3 CH-5 Overburden	B06030458-003	CH-05-05 core composite sample	Tropic Shale; 74.3 to 84.3 feet above base	Carbonaceous shale/claystone
Box 4 CH-5 Overburden	B06030458-004	CH-05-05 core composite sample	Tropic Shale; 68.3 to 74.3 feet above base	Carbonaceous shale/claystone
Box 5 CH-5 Overburden	B06030458-005	CH-05-05 core composite sample	Tropic Shale; 54.3 to 63.8 feet above base	Siltstone, bentonite, carbonaceous shale/clayst.
Box 6 CH-5 Overburden	B06030458-006	CH-05-05 core composite sample	Tropic Shale; 44.3 to 54.3 feet above base	Carbonaceous shale/claystone, siltstone
Box 7 CH-5 Overburden	B06030458-007	CH-05-05 core composite sample	Tropic Shale; 34.3 to 44.3 feet above base	Carbonaceous shale/claystone, siltstone
Box 8 CH-5 Overburden	B06030458-008	CH-05-05 core composite sample	Tropic 21.8 to 34.3 feet above base	Carbonaceous shale/clayst., bentonite, minor lst.
Box 9 CH-5 Overburden	B06030458-009	CH-05-05 core composite sample	Tropic Shale; 10.9 to 21.8 feet above base	Carbonaceous shale/claystone, bentonite
Box 10 CH-5 Overburden	B06030458-010	CH-05-05 core composite sample	Tropic Shale; base to 10.9 feet above base	Carbonaceous shale/claystone, minor siltstone
Box 13 CH-5 Below	B06030458-011	CH-05-05 core composite sample	Dakota Formation, beneath smirl coal seam	Siltstone, carbonaceous shale
CH-03-05 Core Composite Samples				
CH 3 Below Underburden	B06030458-012	CH-03-05 core composite sample	Dakota Formation, beneath smirl coal seam	Silty shale (immediately below coal)
CH-3 Above Underburden	B06030458-013	CH-03-05 core composite sample	Tropic Shale; Base to 4.5 feet above base	Carbonaceous shale
CH-01-05 Cuttings Grab Samples				
CH-01-05, 3 ft	B07041015-001	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 3 ft. bgs	Brown clayey soil
CH-01-05 6 ft	B07041015-002	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 6 ft. bgs	Brown clayey soil
CH-01-05, 9-10 ft	B07041015-003	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 9-10 ft. bgs	grayish brown silty clay alluvium
CH-01-05, 12 ft	B07041015-004	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 12 ft. bgs	grayish brown silty clay alluvium
CH-01-05, 12-13 ft	B07041015-005	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 12-13 ft. bgs	grayish brown silty clay alluvium
CH-01-05, 16 ft	B07041015-006	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 3 ft. bgs	grayish brown silty clay alluvium
CH-01-05, 30 ft	B07041015-007	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 30 ft. bgs	grayish brown silty clay alluvium
CH-01-05, 50 ft	B07041015-023	CH-01-05 cuttings grab sample	Lower Robinson Creek Alluvium, 50 ft. bgs	Dark gray clay alluvium
CH-03-05 Cuttings Grab Samples				
CH-03-05, 0-3 ft	B07041015-008	CH-03-05 cuttings grab sample	Lower Robinson Creek Alluvium, 0-3 ft. bgs	Brownish gray clay
CH-03-05, 3-6 ft	B07041015-009	CH-03-05 cuttings grab sample	Lower Robinson Creek Alluvium, 3-6 ft. bgs	grayish brown silty clay alluvium
CH-03-05, 9 ft	B07041015-010	CH-03-05 cuttings grab sample	Lower Robinson Creek Alluvium, 9 ft. bgs	grayish brown silty clay alluvium
CH-03-05, 16 ft	B07041015-011	CH-03-05 cuttings grab sample	Lower Robinson Creek Alluvium, 16 ft. bgs	grayish brown silty clay alluvium
CH-05-05 Excavation Grab Samples				
CH-05-05, 0-1 ft	B07041015-012	CH-05-05 excavation grab sample	Sink Valley Alluvium, W of fault, 0-1 ft. bgs	silty, clayey soil, brown
CH-05-05, 3 ft	B07041015-013	CH-05-05 excavation grab sample	Sink Valley Alluvium, 3 ft. bgs	silty, clayey soil, brown
CH-05-05, 9-10 ft	B07041015-014	CH-05-05 excavation grab sample	Sink Valley Alluvium, 9-10 ft. bgs	Silty sand and cobbles, alluvium, reddish
CH-05-05, 14 ft	B07041015-015	CH-05-05 excavation grab sample	Sink Valley Alluvium, 14 ft. bgs	Clay, silt, alluvium
CH-05-05 19 ft	B07041015-016	CH-05-05 excavation grab sample	Sink Valley Alluvium, 19 ft. bgs	Tight clay, alluvium
CH-06-05 Cuttings Grab Samples/Core Samples				
CH-06-05, soil	B07041015-017	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 0-3 ft. bgs	Hard, clayey soil
CH-06-05, 5-10 ft	B07041015-018	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 5-10 ft. bgs	Silty, sandy clay alluvium
CH-06-05, 10 ft	B07041015-019	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 10 ft. bgs	Silty, sandy clay alluvium
CH-06-05, 20 ft	B07041015-020	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 20 ft. bgs	Clay, grayish green to grayish brown, alluvium
CH-06-05, 35-40 ft	B07041015-021	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 35-40 ft. bgs	Clay, grayish green to grayish brown, alluvium
CH-06-05, 42-49 ft	B07041015-022	CH-06-05 cuttings grab sample	Sink Valley Alluvium, 42-49 ft. bgs	Silty clay, bluish gray, alluvium
CH-06-05, 49.5-59.5 ft	B07110830-001	CH-06-05 core composite sample	Tropic Shale, 2.8 ft. above base	Carbanaceous shale
CH-06-05, 59.5-62.3 ft	B07110830-002	CH-06-05 core composite sample	Tropic Shale, base to 2.8 ft above base	Clayey siltstone, dark gray, mottled
CH-06-05, 79.5-83.5 ft	B07110830-003	CH-06-05 core composite sample	Dakota Formation, beneath smirl coal seam	Clayey siltstone, Organic siltstone/shale

CH-07 Cuttings Grab Samples				
CH-07 0 - 6 ft	B07120398-005	CH-07 cuttings composite sample	Soil/Weathered Tropic Shale, 0-6 ft. bgs	Clayey silt and clayey, silty soil, brown/reddish brown
CH-07 6 - 15 ft	B07120398-006	CH-07 cuttings composite sample	Weathered Tropic Shale, 6-15 ft. bgs	Clayey silt, brown and brownish gray
CH-07 15 - 19 ft	B07120398-007	CH-07 cuttings composite sample	Weathered Tropic Shale, 15-19 ft. bgs	Clayey silt, brownish gray
CH-07 19 - 27 ft	B07120398-008	CH-07 cuttings composite sample	Weathered Tropic Shale, 19-27 ft bgs	Silty clay, dark gray and greenish gray
CH-07 27 - 36 ft	B07120398-009	CH-07 cuttings composite sample	Tropic Shale, 65-74 feet above base	Silty claystone, dark gray
CH-07 36 - 46 ft	B07120398-010	CH-07 cuttings composite sample	Tropic Shale, 55-65 feet above base	Silty Claystone, dark gray
CH-08 Cuttings Grab Samples/Core Samples				
CH-08 0 - 6 ft	B07120398-011	CH-08 cuttings composite sample	Sink Valley Alluvium, 0' to 6'	Clayey silt and very-fine-grained sand, brown
CH-08 6 - 11 ft	B07120398-012	CH-08 cuttings composite sample	Sink Valley Alluvium, 6' to 11'	Silty fine-grained sand, sandstone cobble, yellowish brown
CH-08 11 - 20 ft	B07120398-013	CH-08 cuttings composite sample	Sink Valley Alluvium, 11' to 20'	Clayey silt and silty fine-grained sand, grayish brown
CH-08 20 - 30 ft	B07120398-014	CH-08 cuttings composite sample	Sink Valley Alluvium, 20' to 30'	Silty clay, minor fine-grained sand,bluish gray
CH-08 30 - 40 ft	B07120398-015	CH-08 cuttings composite sample	Sink Valley Alluvium, 30' to 40'	Silty clay, minor fine-grained sand, yellowish brown
CH-08 40 - 50 ft	B07120398-016	CH-08 cuttings composite sample	Tropic Shale, 33.8-43.8 feet above base	Claystone and silty claystone, brownish gray
CH-08 50 - 60 ft	B07120398-017	CH-08 cuttings composite sample	Tropic Shale, 23.8-33.8 feet above base	Claystone and silty claystone, gray and greenish gray
CH-08 60 - 70 ft	B07120398-018	CH-08 cuttings composite sample	Tropic Shale, 13.8-23.8 feet above base	Claystone and silty claystone, gray and greenish gray
CH-08 70 - 79 ft	B07120398-001	CH-08 cuttings composite sample	Tropic Shale, 4.6-13.8 feet above base	Claystone and silty claystone, gray and greenish gray
CH-08 79.2 - 82.3 ft	B07120398-002	CH-08 composite core sample	Tropic Shale 0.6-4.6 feet above base	Clayey siltstone, dark gray to black
CH-08 82.3 - 83.8 ft	B07120398-003	CH-08 composite core sample	Tropic Shale, 0-0.6 feet above base	Organic-rich siltstone/very-fine-grained sandstone, gray
CH-08 101 -103 ft	B07120398-004	CH-08 cuttings composite sample	Dakota Formation, 0-2 feet below upper contact	Silty claystone/siltstone, gray
Coal Samples				
CH-08 Coal Composite	B07120636-001	CH-08 core/cuttings composite sample	Smirl Coal Zone sample	Black bituminous coal
CH-01-05 Coal Grab Sample	B07120524-001	CH-01-05 coal grab sample	Smirl Coal Zone sample	Black bituminous coal
CH-03-05 Coal Composite	B07120636-003	CH-03-05 core grab sample	Smirl Coal Zone sample	Black bituminous coal
Robinson Creek Outcrop Coal	B07120636-004	Outcrop sample in Robinson Creek drainage	Smirl Coal Zone sample	Black bituminous coal

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-001
Client Sample ID: Box 1 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	12	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	53	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	35	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	3	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.60	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	3.50	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	99.1	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	1.01	meq/L		0.05		SW6010B	03/15/06 18:15 / rlh
Magnesium, sat. paste	0.58	meq/L		0.08		SW6010B	03/15/06 18:15 / rlh
Potassium, sat. paste	0.32	meq/L		0.03		SW6010B	03/15/06 18:15 / rlh
Sodium, sat. paste	32.9	meq/L	D	0.07		SW6010B	03/15/06 18:15 / rlh
Sodium Adsorption Ratio (SAR)	36.9	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	220	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	12	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	210	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	22.0	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	1.32	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 13:59 / srm
METALS, WATER EXTRACTABLE							
Boron	0.8	mg/kg		0.1		SW6010B	03/17/06 03:20 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Barium	53	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 22:23 / rlh
Chromium	8	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Copper	16	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Iron	9820	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Lead	8	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Manganese	195	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:22 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 22:23 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-001
Client Sample ID: Box 1 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:23 / rlh
Zinc	41	mg/kg		5		SW6010B	03/13/06 22:23 / rlh

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-001
Client Sample ID: Box 1, CH-5 94.3 to 104.3

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.01	mg/kg		0.01		SW6020	11/12/07 14:12 / sas

Report Definitions:
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-002
Client Sample ID: Box 2 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	14	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	56	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	30	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	11	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.80	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	2.58	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	101	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.37	meq/L		0.05		SW6010B	03/15/06 18:20 / rlh
Magnesium, sat. paste	0.11	meq/L		0.08		SW6010B	03/15/06 18:20 / rlh
Potassium, sat. paste	0.18	meq/L		0.03		SW6010B	03/15/06 18:20 / rlh
Sodium, sat. paste	23.6	meq/L	D	0.07		SW6010B	03/15/06 18:20 / rlh
Sodium Adsorption Ratio (SAR)	48.1	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	210	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	13	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	200	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	21.2	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	1.10	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	03/15/06 14:00 / srm
METALS, WATER EXTRACTABLE							
Boron	1.0	mg/kg		0.1		SW6010B	03/17/06 03:29 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Barium	52	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 22:34 / rlh
Chromium	6	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Copper	12	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Iron	9000	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Lead	9	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Manganese	143	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:28 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 22:34 / rlh

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-002
Client Sample ID: Box 2 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:34 / rlh
Zinc	38	mg/kg		5		SW6010B	03/13/06 22:34 / rlh

Report Definitions:
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QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-002
Client Sample ID: Box 2, CH-5 84.3 to 94.3

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.03	mg/kg		0.01		SW6020	11/12/07 14:54 / sas

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-003
Client Sample ID: Box 3 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	6	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	61	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	33	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	6	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.30	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.74	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	144	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.21	meq/L		0.05		SW6010B	03/15/06 18:24 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	03/15/06 18:24 / rlh
Potassium, sat. paste	0.10	meq/L		0.03		SW6010B	03/15/06 18:24 / rlh
Sodium, sat. paste	15.9	meq/L		0.04		SW6010B	03/15/06 18:24 / rlh
Sodium Adsorption Ratio (SAR)	43.1	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	89	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	13	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	76	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	8.9	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	1.18	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	03/15/06 14:01 / srm
METALS, WATER EXTRACTABLE							
Boron	1.4	mg/kg		0.1		SW6010B	03/17/06 03:38 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Barium	53	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 22:42 / rlh
Chromium	ND	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Copper	9	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Iron	8040	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Lead	9	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Manganese	83	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:30 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 22:42 / rlh

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-003
Client Sample ID: Box 3 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:42 / rlh
Zinc	42	mg/kg		5		SW6010B	03/13/06 22:42 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-004
Client Sample ID: Box 4 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	53	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	39	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	6	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.50	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	0.91	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	162	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.10	meq/L		0.05		SW6010B	03/15/06 19:05 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	03/15/06 19:05 / rlh
Potassium, sat. paste	0.05	meq/L		0.03		SW6010B	03/15/06 19:05 / rlh
Sodium, sat. paste	8.20	meq/L		0.04		SW6010B	03/15/06 19:05 / rlh
Sodium Adsorption Ratio (SAR)	33.4	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	100	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	10	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	95	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	10.5	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.96	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	03/15/06 14:01 / srm
METALS, WATER EXTRACTABLE							
Boron	1.4	mg/kg		0.1		SW6010B	03/17/06 04:15 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Barium	46	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 22:45 / rlh
Chromium	ND	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Copper	7	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Iron	6480	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Lead	10	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Manganese	74	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:33 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 22:45 / rlh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-004
Client Sample ID: Box 4 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:45 / rlh
Zinc	32	mg/kg		5		SW6010B	03/13/06 22:45 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-003
Client Sample ID: Box 4, CH-5 68.3 to 74.3

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.01	mg/kg		0.01		SW6020	11/12/07 15:02 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-005
Client Sample ID: Box 5 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	MCL/ RL QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS						
Sand	18	%		1	ASA15-5	03/16/06 08:32 / srm
Silt	47	%		1	ASA15-5	03/16/06 08:32 / srm
Clay	35	%		1	ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	8	wt%			ASA15-5	03/30/06 09:23 / srm
Texture	SiCL				ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)						
SATURATED PASTE						
pH, sat. paste	9.30	s.u.		0.10	ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.28	mmhos/cm		0.01	ASA10-3	03/15/06 11:13 / srm
Saturation	144	%		0.1	USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.18	meq/L		0.05	SW6010B	03/15/06 19:09 / rlh
Magnesium, sat. paste	ND	meq/L		0.08	SW6010B	03/15/06 19:09 / rlh
Potassium, sat. paste	0.08	meq/L		0.03	SW6010B	03/15/06 19:09 / rlh
Sodium, sat. paste	11.6	meq/L		0.04	SW6010B	03/15/06 19:09 / rlh
Sodium Adsorption Ratio (SAR)	35.8	unitless		0.01	Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING						
Neutralization Potential	160	t/kt		1.0	Sobek Modified	03/16/06 16:04 / srm
Acid Potential	9.0	t/kt		1.0	Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	140	t/kt			Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.						
CHEMICAL CHARACTERISTICS						
Lime as CaCO3	15.5	%		0.1	USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.86	wt%		0.02	ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	1	mg/kg		1	ASA33-8.1	03/15/06 14:02 / srm
METALS, WATER EXTRACTABLE						
Boron	1.4	mg/kg		0.1	SW6010B	03/17/06 04:20 / rlh
METALS, TOTAL - EPA SW846						
Arsenic	ND	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Barium	55	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Cadmium	ND	mg/kg		1	SW6010B	03/13/06 22:49 / rlh
Chromium	ND	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Copper	7	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Iron	5730	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Lead	12	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Manganese	825	mg/kg		5	SW6010B	03/13/06 22:49 / rlh
Mercury	ND	mg/kg		1	SW7471A	03/15/06 17:35 / jkc
Molybdenum	ND	mg/kg		5	SW6010B	03/13/06 22:49 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-005
Client Sample ID: Box 5 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:49 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:49 / rlh
Zinc	41	mg/kg		5		SW6010B	03/13/06 22:49 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-004
Client Sample ID: Box 5, CH-5 54.3 to 63.8

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.03	mg/kg		0.01		SW6020	11/12/07 15:09 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-006
Client Sample ID: Box 6 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	63	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	29	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	8	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.80	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	2.87	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	85.0	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.42	meq/L		0.05		SW6010B	03/15/06 19:13 / rlh
Magnesium, sat. paste	0.19	meq/L		0.08		SW6010B	03/15/06 19:13 / rlh
Potassium, sat. paste	0.24	meq/L		0.03		SW6010B	03/15/06 19:13 / rlh
Sodium, sat. paste	26.8	meq/L	D	0.07		SW6010B	03/15/06 19:13 / rlh
Sodium Adsorption Ratio (SAR)	48.6	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	100	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	11	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	91	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	10.2	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	1.28	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:06 / srm
METALS, WATER EXTRACTABLE							
Boron	1.3	mg/kg		0.1		SW6010B	03/17/06 04:24 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Barium	76	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 22:52 / rlh
Chromium	11	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Copper	14	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Iron	7990	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Lead	7	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Manganese	64	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:41 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 22:52 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-006
Client Sample ID: Box 6 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 22:52 / rlh
Zinc	43	mg/kg		5		SW6010B	03/13/06 22:52 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-011
Client Sample ID: Box 6, CH-5 Overburden

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/06/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.03	mg/kg		0.01		SW6020	11/12/07 16:34 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-007
Client Sample ID: Box 7 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	57	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	25	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	16	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.60	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	3.39	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	72.9	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.65	meq/L	D	0.07		SW6010B	03/15/06 19:22 / rlh
Magnesium, sat. paste	0.34	meq/L		0.08		SW6010B	03/15/06 19:22 / rlh
Potassium, sat. paste	0.29	meq/L		0.03		SW6010B	03/15/06 19:22 / rlh
Sodium, sat. paste	31.8	meq/L	D	0.07		SW6010B	03/15/06 19:22 / rlh
Sodium Adsorption Ratio (SAR)	45.3	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	130	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	11	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	120	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	13.4	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.89	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:06 / srm
METALS, WATER EXTRACTABLE							
Boron	1.1	mg/kg		0.1		SW6010B	03/17/06 04:29 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Barium	61	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:04 / rlh
Chromium	8	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Copper	10	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Iron	9060	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Lead	6	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Manganese	319	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:44 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:04 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-007
Client Sample ID: Box 7 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:04 / rlh
Zinc	33	mg/kg		5		SW6010B	03/13/06 23:04 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-005
Client Sample ID: Box 7, CH-5 34.3 to 44.3

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.02	mg/kg		0.01		SW6020	11/12/07 15:16 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-008
Client Sample ID: Box 8 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	12	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	59	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	29	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	12	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.30	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.81	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	142	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.15	meq/L		0.05		SW6010B	03/15/06 19:26 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	03/15/06 19:26 / rlh
Potassium, sat. paste	0.11	meq/L		0.03		SW6010B	03/15/06 19:26 / rlh
Sodium, sat. paste	16.5	meq/L		0.04		SW6010B	03/15/06 19:26 / rlh
Sodium Adsorption Ratio (SAR)	52.4	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	60	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	23	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	37	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	6.0	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.96	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:20 / srm
METALS, WATER EXTRACTABLE							
Boron	2.2	mg/kg		0.1		SW6010B	03/17/06 04:33 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Barium	106	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:08 / rlh
Chromium	15	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Copper	17	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Iron	11800	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Lead	8	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Manganese	94	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:46 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:08 / rlh

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-008
Client Sample ID: Box 8 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:08 / rlh
Zinc	38	mg/kg		5		SW6010B	03/13/06 23:08 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-006
Client Sample ID: Box 8, CH-5 21.8 to 34.3

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.03	mg/kg		0.01		SW6020	11/12/07 15:30 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-009
Client Sample ID: Box 9 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	12	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	53	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	35	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	10	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.30	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.30	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	163	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.11	meq/L		0.05		SW6010B	03/15/06 19:31 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	03/15/06 19:31 / rlh
Potassium, sat. paste	0.09	meq/L		0.03		SW6010B	03/15/06 19:31 / rlh
Sodium, sat. paste	12.3	meq/L		0.04		SW6010B	03/15/06 19:31 / rlh
Sodium Adsorption Ratio (SAR)	46.9	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	34	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	21	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	13	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	3.4	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.86	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	03/15/06 14:08 / srm
METALS, WATER EXTRACTABLE							
Boron	1.9	mg/kg		0.1		SW6010B	03/17/06 04:38 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Barium	118	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:11 / rlh
Chromium	11	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Copper	12	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Iron	10700	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Lead	10	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Manganese	73	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:48 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:11 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-009
Client Sample ID: Box 9 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:11 / rlh
Zinc	41	mg/kg		5		SW6010B	03/13/06 23:11 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-007
Client Sample ID: Box 9, CH-5 10.9 to 21.8

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.03	mg/kg		0.01		SW6020	11/12/07 15:37 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-010
Client Sample ID: Box 10 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	32	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	43	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	25	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	27	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	L					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	5.42	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	76.7	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	2.24	meq/L		0.05		SW6010B	03/15/06 19:35 / rlh
Magnesium, sat. paste	1.14	meq/L		0.08		SW6010B	03/15/06 19:35 / rlh
Potassium, sat. paste	0.46	meq/L		0.03		SW6010B	03/15/06 19:35 / rlh
Sodium, sat. paste	54.2	meq/L	D	0.1		SW6010B	03/15/06 19:35 / rlh
Sodium Adsorption Ratio (SAR)	41.7	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	23	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	15	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	8	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	2.3	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	2.92	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:08 / srm
METALS, WATER EXTRACTABLE							
Boron	1.5	mg/kg		0.1		SW6010B	03/17/06 04:42 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Barium	70	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:15 / rlh
Chromium	6	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Copper	7	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Iron	6720	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Lead	8	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Manganese	68	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:50 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:15 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-010
Client Sample ID: Box 10 CH-5 Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:15 / rlh
Zinc	29	mg/kg		5		SW6010B	03/13/06 23:15 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-008
Client Sample ID: Box 10, CH-5 Base to 10.9

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.04	mg/kg		0.01		SW6020	11/12/07 15:44 / sas

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-011
Client Sample ID: Box 13 CH-5 Below

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	6	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	56	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	38	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	6	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.00	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.66	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	49.0	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	0.23	meq/L		0.05		SW6010B	03/15/06 19:39 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	03/15/06 19:39 / rlh
Potassium, sat. paste	0.18	meq/L		0.03		SW6010B	03/15/06 19:39 / rlh
Sodium, sat. paste	18.1	meq/L		0.04		SW6010B	03/15/06 19:39 / rlh
Sodium Adsorption Ratio (SAR)	46.3	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	51	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	2.0	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	49	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	5.1	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.75	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:09 / srm
METALS, WATER EXTRACTABLE							
Boron	1.8	mg/kg		0.1		SW6010B	03/17/06 04:47 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Barium	21	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:19 / rlh
Chromium	18	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Copper	24	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Iron	5700	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Lead	19	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Manganese	59	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:52 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:19 / rlh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-011
Client Sample ID: Box 13 CH-5 Below

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:19 / rlh
Zinc	75	mg/kg		5		SW6010B	03/13/06 23:19 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-009
Client Sample ID: Box 13, CH-5 Below Coal

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/02/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.15	mg/kg		0.01		SW6020	11/12/07 15:52 / sas

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-012
Client Sample ID: CH 3 Below Underburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	45	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	47	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	5	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiC					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	1.88	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	60.0	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	1.80	meq/L		0.05		SW6010B	03/15/06 19:44 / rlh
Magnesium, sat. paste	1.20	meq/L		0.08		SW6010B	03/15/06 19:44 / rlh
Potassium, sat. paste	0.46	meq/L		0.03		SW6010B	03/15/06 19:44 / rlh
Sodium, sat. paste	15.3	meq/L		0.04		SW6010B	03/15/06 19:44 / rlh
Sodium Adsorption Ratio (SAR)	12.5	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	78	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	2.0	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	75	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	7.8	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.78	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:10 / srm
METALS, WATER EXTRACTABLE							
Boron	3.0	mg/kg		0.1		SW6010B	03/17/06 04:56 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Barium	21	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:22 / rlh
Chromium	19	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Copper	27	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Iron	6820	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Lead	20	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Manganese	89	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:54 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:22 / rlh

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-012
Client Sample ID: CH 3 Below Underburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:22 / rlh
Zinc	122	mg/kg		5		SW6010B	03/13/06 23:22 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-013
Client Sample ID: CH 3 Above Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	03/16/06 08:32 / srm
Silt	59	%		1		ASA15-5	03/16/06 08:32 / srm
Clay	33	%		1		ASA15-5	03/16/06 08:32 / srm
Very Fine Sand	8	wt%				ASA15-5	03/30/06 09:23 / srm
Texture	SiCL					ASA15-5	03/16/06 08:32 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.80	s.u.		0.10		ASAM10-3.2	03/15/06 11:13 / srm
Conductivity, sat. paste	3.25	mmhos/cm		0.01		ASA10-3	03/15/06 11:13 / srm
Saturation	88.5	%		0.1		USDA27a	03/15/06 11:13 / srm
Calcium, sat. paste	9.16	meq/L	D	0.07		SW6010B	03/15/06 20:00 / rlh
Magnesium, sat. paste	10.3	meq/L		0.08		SW6010B	03/15/06 20:00 / rlh
Potassium, sat. paste	0.86	meq/L		0.03		SW6010B	03/15/06 20:00 / rlh
Sodium, sat. paste	16.0	meq/L	D	0.07		SW6010B	03/15/06 20:00 / rlh
Sodium Adsorption Ratio (SAR)	5.14	unitless		0.01		Calculation	03/16/06 10:44 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	100	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid Potential	10	t/kt		1.0		Sobek Modified	03/16/06 16:04 / srm
Acid/Base Potential	90	t/kt				Sobek Modified	03/16/06 16:04 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	10	%		0.1		USDA23c	03/16/06 10:05 / srm
Organic Carbon	0.95	wt%		0.02		ASA29-3	03/14/06 14:52 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	03/15/06 14:11 / srm
METALS, WATER EXTRACTABLE							
Boron	1.6	mg/kg		0.1		SW6010B	03/17/06 05:13 / rlh
METALS, TOTAL - EPA SW846							
Arsenic	12	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Barium	41	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Cadmium	ND	mg/kg		1		SW6010B	03/13/06 23:26 / rlh
Chromium	6	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Copper	10	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Iron	11600	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Lead	8	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Manganese	124	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Mercury	ND	mg/kg		1		SW7471A	03/15/06 17:56 / jkc
Molybdenum	ND	mg/kg		5		SW6010B	03/13/06 23:26 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Patrick Collins
Project: Coal Hollow
Lab ID: B06030458-013
Client Sample ID: CH 3 Above Overburden

Report Date: 03/30/06
Collection Date: Not Provided
Date Received: 03/07/06
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Selenium	ND	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Silver	ND	mg/kg		5		SW6010B	03/13/06 23:26 / rlh
Zinc	41	mg/kg		5		SW6010B	03/13/06 23:26 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC
Project:
Lab ID: B07110148-010
Client Sample ID: CH-03, Above Underburden

Report Date: 11/14/07
Collection Date: Not Provided
DateReceived: 11/06/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, WATER EXTRACTABLE							
Selenium	0.08	mg/kg		0.01		SW6020	11/12/07 16:27 / sas

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-001
Client Sample ID: CH-01-05, 3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	49	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	51	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.33	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	78.4	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.42	meq/L		0.05		SW6010B	04/20/07 11:13 / rlh
Magnesium, sat. paste	1.63	meq/L		0.08		SW6010B	04/20/07 11:13 / rlh
Potassium, sat. paste	0.37	meq/L		0.03		SW6010B	04/20/07 11:13 / rlh
Sodium, sat. paste	0.14	meq/L		0.04		SW6010B	04/20/07 11:13 / rlh
Sodium Adsorption Ratio (SAR)	0.12	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	280	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	1.1	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	280	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	28.3	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	1.05	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:14 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 13:37 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 00:21 / sas
METALS, TOTAL - EPA SW846							
Arsenic	9	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Barium	99	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:03 / rlh
Chromium	24	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Copper	17	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Iron	17300	mg/kg	D	8		SW6010B	04/18/07 22:03 / rlh
Lead	13	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Manganese	272	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:10 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-001
Client Sample ID: CH-01-05, 3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:03 / rlh
Zinc	63	mg/kg		5		SW6010B	04/18/07 22:03 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-002
Client Sample ID: CH-01-05, 6 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	49	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	51	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.34	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	82.9	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	0.69	meq/L		0.05		SW6010B	04/20/07 11:17 / rlh
Magnesium, sat. paste	2.19	meq/L		0.08		SW6010B	04/20/07 11:17 / rlh
Potassium, sat. paste	0.35	meq/L		0.03		SW6010B	04/20/07 11:17 / rlh
Sodium, sat. paste	0.40	meq/L		0.04		SW6010B	04/20/07 11:17 / rlh
Sodium Adsorption Ratio (SAR)	0.33	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	300	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	300	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	30.0	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.77	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:14 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 13:41 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 00:35 / sas
METALS, TOTAL - EPA SW846							
Arsenic	6	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Barium	91	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:14 / rlh
Chromium	20	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Copper	16	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Iron	16100	mg/kg	D	8		SW6010B	04/18/07 22:14 / rlh
Lead	12	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Manganese	222	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:14 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-002
Client Sample ID: CH-01-05, 6 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:14 / rlh
Zinc	61	mg/kg		5		SW6010B	04/18/07 22:14 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-003
Client Sample ID: CH-01-05, 9-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	10	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	61	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	29	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	3	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiCL					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.40	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.52	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	52.2	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	0.57	meq/L		0.05		SW6010B	04/20/07 11:22 / rlh
Magnesium, sat. paste	3.40	meq/L		0.08		SW6010B	04/20/07 11:22 / rlh
Potassium, sat. paste	0.28	meq/L		0.03		SW6010B	04/20/07 11:22 / rlh
Sodium, sat. paste	1.36	meq/L		0.04		SW6010B	04/20/07 11:22 / rlh
Sodium Adsorption Ratio (SAR)	0.96	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	350	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	350	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	35.3	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.40	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:15 / srm
METALS, WATER EXTRACTABLE							
Boron	0.3	mg/kg		0.1		SW6010B	04/20/07 13:45 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 01:02 / sas
METALS, TOTAL - EPA SW846							
Arsenic	6	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Barium	104	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:29 / rlh
Chromium	16	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Copper	11	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Iron	12800	mg/kg	D	8		SW6010B	04/18/07 22:29 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Manganese	225	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:17 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-003
Client Sample ID: CH-01-05, 9-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:29 / rlh
Zinc	43	mg/kg		5		SW6010B	04/18/07 22:29 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-004
Client Sample ID: CH-01-5, 12 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	53	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	47	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.78	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	84.6	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.48	meq/L		0.05		SW6010B	04/20/07 11:26 / rlh
Magnesium, sat. paste	5.36	meq/L		0.08		SW6010B	04/20/07 11:26 / rlh
Potassium, sat. paste	0.31	meq/L		0.03		SW6010B	04/20/07 11:26 / rlh
Sodium, sat. paste	1.49	meq/L		0.04		SW6010B	04/20/07 11:26 / rlh
Sodium Adsorption Ratio (SAR)	0.80	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	300	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	300	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	30.3	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.48	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:16 / srm
METALS, WATER EXTRACTABLE							
Boron	0.2	mg/kg		0.1		SW6010B	04/20/07 13:54 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	10/17/07 01:09 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Barium	87	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:33 / rlh
Chromium	18	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Copper	14	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Iron	14400	mg/kg	D	8		SW6010B	04/18/07 22:33 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Manganese	283	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:19 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-004
Client Sample ID: CH-01-5, 12 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:33 / rlh
Zinc	54	mg/kg		5		SW6010B	04/18/07 22:33 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-005
Client Sample ID: CH-01-05, 12-13 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	44	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	39	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	17	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	11	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	L					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.73	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	35.9	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.71	meq/L		0.05		SW6010B	04/20/07 11:35 / rlh
Magnesium, sat. paste	4.69	meq/L		0.08		SW6010B	04/20/07 11:35 / rlh
Potassium, sat. paste	0.26	meq/L		0.03		SW6010B	04/20/07 11:35 / rlh
Sodium, sat. paste	1.25	meq/L		0.04		SW6010B	04/20/07 11:35 / rlh
Sodium Adsorption Ratio (SAR)	0.70	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	260	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	250	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	25.5	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.30	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:18 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:02 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 01:16 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Barium	124	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:36 / rlh
Chromium	11	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Copper	8	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Iron	9780	mg/kg	D	8		SW6010B	04/18/07 22:36 / rlh
Lead	9	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Manganese	191	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:21 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-005
Client Sample ID: CH-01-05, 12-13 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:36 / rlh
Zinc	33	mg/kg		5		SW6010B	04/18/07 22:36 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-006
Client Sample ID: CH-01-05, 16 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	55	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	25	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	6	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiL					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.65	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	50.5	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.58	meq/L		0.05		SW6010B	04/20/07 11:47 / rlh
Magnesium, sat. paste	4.05	meq/L		0.08		SW6010B	04/20/07 11:47 / rlh
Potassium, sat. paste	0.27	meq/L		0.03		SW6010B	04/20/07 11:47 / rlh
Sodium, sat. paste	1.11	meq/L		0.04		SW6010B	04/20/07 11:47 / rlh
Sodium Adsorption Ratio (SAR)	0.66	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	300	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	300	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	30.3	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.35	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:19 / srm
METALS, WATER EXTRACTABLE							
Boron	0.1	mg/kg		0.1		SW6010B	04/20/07 14:06 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 01:51 / sas
METALS, TOTAL - EPA SW846							
Arsenic	5	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Barium	89	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:40 / rlh
Chromium	13	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Copper	10	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Iron	11300	mg/kg	D	8		SW6010B	04/18/07 22:40 / rlh
Lead	10	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Manganese	159	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:23 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-006
Client Sample ID: CH-01-05, 16 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:40 / rlh
Zinc	40	mg/kg		5		SW6010B	04/18/07 22:40 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-007
Client Sample ID: CH-01-05, 30 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	47	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	45	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	3.13	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	81.9	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	16.9	meq/L		0.05		SW6010B	04/20/07 11:51 / rlh
Magnesium, sat. paste	25.8	meq/L		0.08		SW6010B	04/20/07 11:51 / rlh
Potassium, sat. paste	1.11	meq/L		0.03		SW6010B	04/20/07 11:51 / rlh
Sodium, sat. paste	3.65	meq/L		0.04		SW6010B	04/20/07 11:51 / rlh
Sodium Adsorption Ratio (SAR)	0.79	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	260	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	260	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	26.1	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.45	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	04/18/07 12:20 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 14:18 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 01:58 / sas
METALS, TOTAL - EPA SW846							
Arsenic	6	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Barium	99	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:43 / rlh
Chromium	19	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Copper	14	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Iron	14100	mg/kg	D	8		SW6010B	04/18/07 22:43 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Manganese	202	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:25 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-007
Client Sample ID: CH-01-05, 30 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:43 / rlh
Zinc	49	mg/kg		5		SW6010B	04/18/07 22:43 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-023
Client Sample ID: CH-01-05, 50 Feet, Dark Grey Clay

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	1	%		1		ASA15-5	04/20/07 08:30 / srm
Silt	34	%		1		ASA15-5	04/20/07 08:30 / srm
Clay	65	%		1		ASA15-5	04/20/07 08:30 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/20/07 08:30 / srm
Texture	C					ASA15-5	04/20/07 08:30 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.60	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	2.78	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	234	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.73	meq/L		0.05		SW6010B	04/20/07 13:16 / rlh
Magnesium, sat. paste	1.03	meq/L		0.08		SW6010B	04/20/07 13:16 / rlh
Potassium, sat. paste	0.43	meq/L		0.03		SW6010B	04/20/07 13:16 / rlh
Sodium, sat. paste	26.0	meq/L		0.04		SW6010B	04/20/07 13:16 / rlh
Sodium Adsorption Ratio (SAR)	22.2	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	41	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	12	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	29	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	4.1	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.77	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	04/18/07 12:34 / srm
METALS, WATER EXTRACTABLE							
Boron	4.1	mg/kg		0.1		SW6010B	04/20/07 16:11 / rlh
Selenium	0.03	mg/kg		0.01		SW6020	10/17/07 04:57 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Barium	134	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/19/07 00:10 / rlh
Chromium	15	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Copper	10	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Iron	10600	mg/kg	D	8		SW6010B	04/24/07 23:58 / rlh
Lead	13	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Manganese	80	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 14:28 / jjw

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-023
Client Sample ID: CH-01-05, 50 Feet, Dark Grey Clay

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Silver	ND	mg/kg		5		SW6010B	04/19/07 00:10 / rlh
Zinc	43	mg/kg		5		SW6010B	04/19/07 00:10 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-008
Client Sample ID: CH-03-05, 0-3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	70	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	21	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	9	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	11	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SL					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.80	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.42	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	25.7	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	2.98	meq/L		0.05		SW6010B	04/20/07 11:59 / rlh
Magnesium, sat. paste	1.26	meq/L		0.08		SW6010B	04/20/07 11:59 / rlh
Potassium, sat. paste	0.30	meq/L		0.03		SW6010B	04/20/07 11:59 / rlh
Sodium, sat. paste	0.07	meq/L		0.04		SW6010B	04/20/07 11:59 / rlh
Sodium Adsorption Ratio (SAR)	0.05	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	160	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	160	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	15.6	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.62	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	2	mg/kg		1		ASA33-8.1	04/18/07 12:21 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:22 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:04 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Barium	56	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:47 / rlh
Chromium	7	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Copper	6	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Iron	8620	mg/kg	D	8		SW6010B	04/18/07 22:47 / rlh
Lead	7	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Manganese	152	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:32 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-008
Client Sample ID: CH-03-05, 0-3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:47 / rlh
Zinc	28	mg/kg		5		SW6010B	04/18/07 22:47 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-009
Client Sample ID: CH-03-05, 3-6 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	77	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	17	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	6	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	9	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	LS					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.27	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	21.8	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.73	meq/L		0.05		SW6010B	04/20/07 12:04 / rlh
Magnesium, sat. paste	0.87	meq/L		0.08		SW6010B	04/20/07 12:04 / rlh
Potassium, sat. paste	0.12	meq/L		0.03		SW6010B	04/20/07 12:04 / rlh
Sodium, sat. paste	0.10	meq/L		0.04		SW6010B	04/20/07 12:04 / rlh
Sodium Adsorption Ratio (SAR)	0.09	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	280	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	280	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	27.7	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.23	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:21 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:27 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:11 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Barium	96	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:51 / rlh
Chromium	7	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Copper	ND	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Iron	7000	mg/kg	D	8		SW6010B	04/18/07 22:51 / rlh
Lead	5	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Manganese	141	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:34 / jjw

Report Definitions:
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QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-009
Client Sample ID: CH-03-05, 3-6 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:51 / rlh
Zinc	19	mg/kg		5		SW6010B	04/18/07 22:51 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-010
Client Sample ID: CH-03-05, 9 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	82	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	13	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	5	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	7	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	LS					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.40	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.25	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	20.4	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.10	meq/L		0.05		SW6010B	04/20/07 12:08 / rlh
Magnesium, sat. paste	1.32	meq/L		0.08		SW6010B	04/20/07 12:08 / rlh
Potassium, sat. paste	0.09	meq/L		0.03		SW6010B	04/20/07 12:08 / rlh
Sodium, sat. paste	0.13	meq/L		0.04		SW6010B	04/20/07 12:08 / rlh
Sodium Adsorption Ratio (SAR)	0.11	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	460	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	460	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	46.2	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.15	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:22 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:31 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:18 / sas
METALS, TOTAL - EPA SW846							
Arsenic	8	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Barium	202	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:54 / rlh
Chromium	8	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Copper	ND	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Iron	8100	mg/kg	D	8		SW6010B	04/18/07 22:54 / rlh
Lead	ND	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Manganese	217	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:36 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-010
Client Sample ID: CH-03-05, 9 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:54 / rlh
Zinc	14	mg/kg		5		SW6010B	04/18/07 22:54 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-011
Client Sample ID: CH-03-05, 16 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	80	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	14	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	6	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	5	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	LS					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.40	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.40	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	20.2	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.22	meq/L		0.05		SW6010B	04/20/07 12:12 / rlh
Magnesium, sat. paste	2.24	meq/L		0.08		SW6010B	04/20/07 12:12 / rlh
Potassium, sat. paste	0.16	meq/L		0.03		SW6010B	04/20/07 12:12 / rlh
Sodium, sat. paste	0.40	meq/L		0.04		SW6010B	04/20/07 12:12 / rlh
Sodium Adsorption Ratio (SAR)	0.31	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	650	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	650	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	64.7	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.11	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:23 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:35 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:25 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Barium	234	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 22:58 / rlh
Chromium	7	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Copper	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Iron	11400	mg/kg	D	8		SW6010B	04/18/07 22:58 / rlh
Lead	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Manganese	276	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:38 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-011
Client Sample ID: CH-03-05, 16 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 22:58 / rlh
Zinc	23	mg/kg		5		SW6010B	04/18/07 22:58 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-012
Client Sample ID: CH-05-05, 0-1 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	30	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	41	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	29	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	3	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	CL					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.90	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.43	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	44.5	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	2.22	meq/L		0.05		SW6010B	04/20/07 12:17 / rlh
Magnesium, sat. paste	2.21	meq/L		0.08		SW6010B	04/20/07 12:17 / rlh
Potassium, sat. paste	0.19	meq/L		0.03		SW6010B	04/20/07 12:17 / rlh
Sodium, sat. paste	0.15	meq/L		0.04		SW6010B	04/20/07 12:17 / rlh
Sodium Adsorption Ratio (SAR)	0.10	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	230	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	230	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	22.7	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.91	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	3	mg/kg		1		ASA33-8.1	04/18/07 12:24 / srm
METALS, WATER EXTRACTABLE							
Boron	0.2	mg/kg		0.1		SW6010B	04/20/07 14:39 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:39 / sas
METALS, TOTAL - EPA SW846							
Arsenic	7	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Barium	67	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:01 / rlh
Chromium	17	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Copper	13	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Iron	13500	mg/kg	D	8		SW6010B	04/18/07 23:01 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Manganese	264	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:40 / jjw

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-012
Client Sample ID: CH-05-05, 0-1 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:01 / rlh
Zinc	47	mg/kg		5		SW6010B	04/18/07 23:01 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-013
Client Sample ID: CH-05-05, 3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	64	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	23	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	13	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	12	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SL					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.43	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	27.0	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.28	meq/L		0.05		SW6010B	04/20/07 12:21 / rlh
Magnesium, sat. paste	3.02	meq/L		0.08		SW6010B	04/20/07 12:21 / rlh
Potassium, sat. paste	0.15	meq/L		0.03		SW6010B	04/20/07 12:21 / rlh
Sodium, sat. paste	0.28	meq/L		0.04		SW6010B	04/20/07 12:21 / rlh
Sodium Adsorption Ratio (SAR)	0.19	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	250	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	250	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	24.9	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.39	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	04/18/07 12:24 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:44 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 02:46 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Barium	61	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:13 / rlh
Chromium	8	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Copper	6	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Iron	8120	mg/kg	D	8		SW6010B	04/18/07 23:13 / rlh
Lead	7	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Manganese	152	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:42 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-013
Client Sample ID: CH-05-05, 3 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:13 / rlh
Zinc	25	mg/kg		5		SW6010B	04/18/07 23:13 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-014
Client Sample ID: CH-05-05, 9-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	78	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	17	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	5	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	4	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	LS					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.40	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.43	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	20.8	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.05	meq/L		0.05		SW6010B	04/20/07 12:25 / rlh
Magnesium, sat. paste	3.01	meq/L		0.08		SW6010B	04/20/07 12:25 / rlh
Potassium, sat. paste	0.15	meq/L		0.03		SW6010B	04/20/07 12:25 / rlh
Sodium, sat. paste	0.36	meq/L		0.04		SW6010B	04/20/07 12:25 / rlh
Sodium Adsorption Ratio (SAR)	0.26	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	600	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	600	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	60.0	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.13	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:25 / srm
METALS, WATER EXTRACTABLE							
Boron	ND	mg/kg		0.1		SW6010B	04/20/07 14:52 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 03:41 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Barium	107	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:17 / rlh
Chromium	7	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Copper	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Iron	8140	mg/kg	D	8		SW6010B	04/18/07 23:17 / rlh
Lead	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Manganese	233	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:45 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-014
Client Sample ID: CH-05-05, 9-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:17 / rlh
Zinc	16	mg/kg		5		SW6010B	04/18/07 23:17 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-015
Client Sample ID: CH-05-05, 14 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	39	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	61	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	C					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.54	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	97.3	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.50	meq/L		0.05		SW6010B	04/20/07 12:42 / rlh
Magnesium, sat. paste	2.69	meq/L		0.08		SW6010B	04/20/07 12:42 / rlh
Potassium, sat. paste	0.21	meq/L		0.03		SW6010B	04/20/07 12:42 / rlh
Sodium, sat. paste	1.51	meq/L		0.04		SW6010B	04/20/07 12:42 / rlh
Sodium Adsorption Ratio (SAR)	1.04	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	190	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	190	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	19.1	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.50	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:27 / srm
METALS, WATER EXTRACTABLE							
Boron	0.2	mg/kg		0.1		SW6010B	04/20/07 15:32 / rlh
Selenium	0.04	mg/kg		0.01		SW6020	10/17/07 03:48 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Barium	106	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:20 / rlh
Chromium	14	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Copper	13	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Iron	14500	mg/kg	D	8		SW6010B	04/18/07 23:20 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Manganese	87	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:47 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-015
Client Sample ID: CH-05-05, 14 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:20 / rlh
Zinc	50	mg/kg		5		SW6010B	04/18/07 23:20 / rlh

Report Definitions:
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-016
Client Sample ID: CH-05-05, 19 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	2	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	37	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	61	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	C					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.10	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	1.04	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	97.6	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	2.67	meq/L		0.05		SW6010B	04/20/07 12:46 / rlh
Magnesium, sat. paste	2.71	meq/L		0.08		SW6010B	04/20/07 12:46 / rlh
Potassium, sat. paste	0.27	meq/L		0.03		SW6010B	04/20/07 12:46 / rlh
Sodium, sat. paste	5.85	meq/L		0.04		SW6010B	04/20/07 12:46 / rlh
Sodium Adsorption Ratio (SAR)	3.57	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	180	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	180	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	18.2	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.44	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	04/18/07 12:29 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 15:36 / rlh
Selenium	0.03	mg/kg		0.01		SW6020	10/17/07 03:55 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Barium	85	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:24 / rlh
Chromium	15	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Copper	14	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Iron	14600	mg/kg	D	8		SW6010B	04/18/07 23:24 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Manganese	144	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:49 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-016
Client Sample ID: CH-05-05, 19 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:24 / rlh
Zinc	54	mg/kg		5		SW6010B	04/18/07 23:24 / rlh

Report Definitions:
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QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-017
Client Sample ID: CH-06-05, Soil

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	2	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	45	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	53	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	0	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	0.54	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	79.5	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	1.33	meq/L		0.05		SW6010B	04/20/07 12:50 / rlh
Magnesium, sat. paste	1.51	meq/L		0.08		SW6010B	04/20/07 12:50 / rlh
Potassium, sat. paste	0.08	meq/L		0.03		SW6010B	04/20/07 12:50 / rlh
Sodium, sat. paste	3.17	meq/L		0.04		SW6010B	04/20/07 12:50 / rlh
Sodium Adsorption Ratio (SAR)	2.66	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	21	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	20	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	2.1	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.73	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	6	mg/kg		1		ASA33-8.1	04/18/07 12:30 / srm
METALS, WATER EXTRACTABLE							
Boron	0.2	mg/kg		0.1		SW6010B	04/20/07 15:40 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 04:02 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Barium	65	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:27 / rlh
Chromium	18	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Copper	14	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Iron	13800	mg/kg	D	8		SW6010B	04/18/07 23:27 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Manganese	118	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:51 / jjw

Report Definitions:
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-017
Client Sample ID: CH-06-05, Soil

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:27 / rlh
Zinc	46	mg/kg		5		SW6010B	04/18/07 23:27 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-018
Client Sample ID: CH-06-05, 5-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	20	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	39	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	41	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	6	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	C					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.50	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	ISS	mmhos/cm		0.01		ASA10-3	04/18/07 16:34 / srm
Saturation	ISS	%		0.1		USDA27a	04/18/07 16:34 / srm
Calcium, sat. paste	ISS	meq/L		0.09		SW6010B	04/18/07 16:34 / srm
Magnesium, sat. paste	ISS	meq/L		0.09		SW6010B	04/18/07 16:34 / srm
Potassium, sat. paste	ISS	meq/L		0.09		SW6010B	04/18/07 16:34 / srm
Sodium, sat. paste	ISS	meq/L		0.09		SW6010B	04/18/07 16:34 / srm
Sodium Adsorption Ratio (SAR)	ISS	unitless		0.01		Calculation	04/18/07 16:34 / srm
ISS = Insufficient sample for analysis							
ACID-BASE ACCOUNTING							
Neutralization Potential	130	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	130	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	12.6	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.37	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	04/18/07 12:31 / srm
METALS, WATER EXTRACTABLE							
Boron	0.6	mg/kg		0.1		SW6010B	04/20/07 15:44 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	10/17/07 04:08 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Barium	63	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:31 / rlh
Chromium	12	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Copper	11	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Iron	10000	mg/kg	D	8		SW6010B	04/18/07 23:31 / rlh
Lead	10	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Manganese	114	mg/kg		5		SW6010B	04/18/07 23:31 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-018
Client Sample ID: CH-06-05, 5-10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Mercury	ND	mg/kg		1		SW7471A	04/19/07 13:58 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:31 / rlh
Zinc	35	mg/kg		5		SW6010B	04/18/07 23:31 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-019
Client Sample ID: CH-06-05, 10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	12	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	41	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	47	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	9	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	7.95	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	90.9	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	22.7	meq/L	D	0.1		SW6010B	04/20/07 12:55 / rlh
Magnesium, sat. paste	52.2	meq/L	D	0.1		SW6010B	04/20/07 12:55 / rlh
Potassium, sat. paste	0.93	meq/L		0.03		SW6010B	04/20/07 12:55 / rlh
Sodium, sat. paste	60.8	meq/L	D	0.08		SW6010B	04/20/07 12:55 / rlh
Sodium Adsorption Ratio (SAR)	9.93	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	69	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	68	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	6.9	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.35	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	3	mg/kg		1		ASA33-8.1	04/18/07 12:31 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 15:49 / rlh
Selenium	ND	mg/kg		0.01		SW6020	10/17/07 04:15 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Barium	57	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:35 / rlh
Chromium	15	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Copper	13	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Iron	14200	mg/kg	D	8		SW6010B	04/18/07 23:35 / rlh
Lead	9	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Manganese	108	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 14:00 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-019
Client Sample ID: CH-06-05, 10 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:35 / rlh
Zinc	35	mg/kg		5		SW6010B	04/18/07 23:35 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-020
Client Sample ID: CH-06-05, 20 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	10	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	31	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	59	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	6	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	C					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	7.18	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	143	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	26.7	meq/L	D	0.1		SW6010B	04/20/07 13:03 / rlh
Magnesium, sat. paste	23.3	meq/L	D	0.1		SW6010B	04/20/07 13:03 / rlh
Potassium, sat. paste	1.07	meq/L		0.03		SW6010B	04/20/07 13:03 / rlh
Sodium, sat. paste	61.7	meq/L	D	0.08		SW6010B	04/20/07 13:03 / rlh
Sodium Adsorption Ratio (SAR)	12.3	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	60	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	1.6	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	58	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	6.0	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.38	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	8	mg/kg		1		ASA33-8.1	04/18/07 12:32 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	04/20/07 15:53 / rlh
Selenium	0.05	mg/kg		0.01		SW6020	10/17/07 04:50 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Barium	94	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/18/07 23:38 / rlh
Chromium	25	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Copper	19	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Iron	16600	mg/kg	D	8		SW6010B	04/18/07 23:38 / rlh
Lead	11	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Manganese	121	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Mercury	ND	mg/kg		1		SW7471A	04/19/07 14:02 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-020
Client Sample ID: CH-06-05, 20 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Silver	ND	mg/kg		5		SW6010B	04/18/07 23:38 / rlh
Zinc	45	mg/kg		5		SW6010B	04/18/07 23:38 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-021
Client Sample ID: CH-06-05, 35-40 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	7	%		1		ASA15-5	04/20/07 08:30 / srm
Silt	26	%		1		ASA15-5	04/20/07 08:30 / srm
Clay	67	%		1		ASA15-5	04/20/07 08:30 / srm
Very Fine Sand	4	wt%		1		ASA15-5	04/20/07 08:30 / srm
Texture	C					ASA15-5	04/20/07 08:30 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	6.33	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	275	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	19.5	meq/L	D	0.1		SW6010B	04/20/07 13:07 / rlh
Magnesium, sat. paste	9.3	meq/L	D	0.1		SW6010B	04/20/07 13:07 / rlh
Potassium, sat. paste	0.88	meq/L		0.03		SW6010B	04/20/07 13:07 / rlh
Sodium, sat. paste	60.0	meq/L	D	0.08		SW6010B	04/20/07 13:07 / rlh
Sodium Adsorption Ratio (SAR)	15.8	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	90	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	3.6	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	87	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	9.0	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.33	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	5	mg/kg		1		ASA33-8.1	04/18/07 12:33 / srm
METALS, WATER EXTRACTABLE							
Boron	2.3	mg/kg		0.1		SW6010B	04/20/07 15:58 / rlh
Selenium	ISS	mg/kg	D	0.2		SW6010B	04/20/07 15:58 / rlh
-Insufficient Sample for Analysis							
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Barium	124	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/19/07 00:03 / rlh
Chromium	11	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Copper	11	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Iron	11500	mg/kg	D	8		SW6010B	04/24/07 23:51 / rlh
Lead	19	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Manganese	322	mg/kg		5		SW6010B	04/19/07 00:03 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
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ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-021
Client Sample ID: CH-06-05, 35-40 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Mercury	ND	mg/kg		1		SW7471A	04/19/07 14:24 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Silver	ND	mg/kg		5		SW6010B	04/19/07 00:03 / rlh
Zinc	44	mg/kg		5		SW6010B	04/19/07 00:03 / rlh

Report Definitions:
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QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-022
Client Sample ID: CH-06-05, 42-49 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	6	%		1		ASA15-5	04/19/07 08:29 / srm
Silt	44	%		1		ASA15-5	04/19/07 08:29 / srm
Clay	50	%		1		ASA15-5	04/19/07 08:29 / srm
Very Fine Sand	5	wt%		1		ASA15-5	04/19/07 08:29 / srm
Texture	SiC					ASA15-5	04/19/07 08:29 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	04/18/07 14:45 / srm
Conductivity, sat. paste	6.47	mmhos/cm		0.01		ASA10-3	04/19/07 08:29 / srm
Saturation	192	%		0.1		USDA27a	04/19/07 08:29 / srm
Calcium, sat. paste	12.3	meq/L	D	0.1		SW6010B	04/20/07 13:12 / rlh
Magnesium, sat. paste	7.0	meq/L	D	0.1		SW6010B	04/20/07 13:12 / rlh
Potassium, sat. paste	1.07	meq/L		0.03		SW6010B	04/20/07 13:12 / rlh
Sodium, sat. paste	66.4	meq/L	D	0.08		SW6010B	04/20/07 13:12 / rlh
Sodium Adsorption Ratio (SAR)	21.4	unitless		0.01		Calculation	04/23/07 13:22 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	51	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid Potential	17	t/kt		1.0		Sobek Modifie	04/23/07 00:00 / srm
Acid/Base Potential	34	t/kt				Sobek Modifie	04/23/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	5.1	%		0.1		USDA23c	04/23/07 00:00 / srm
Organic Carbon	0.90	wt%		0.02		ASA29-3	04/18/07 14:45 / srm
Nitrate as N, KCL Extract	17	mg/kg		1		ASA33-8.1	04/18/07 12:33 / srm
METALS, WATER EXTRACTABLE							
Boron	2.7	mg/kg		0.1		SW6010B	04/20/07 16:02 / rlh
Selenium	ISS	mg/kg	D	0.2		SW6010B	04/20/07 16:02 / rlh
-Insufficient Sample for Analysis							
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Barium	84	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Cadmium	ND	mg/kg		1		SW6010B	04/19/07 00:06 / rlh
Chromium	15	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Copper	10	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Iron	13500	mg/kg	D	8		SW6010B	04/24/07 23:55 / rlh
Lead	12	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Manganese	148	mg/kg		5		SW6010B	04/19/07 00:06 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project:
Lab ID: B07041015-022
Client Sample ID: CH-06-05, 42-49 Feet

Report Date: 10/23/07
Collection Date: Not Provided
DateReceived: 04/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Mercury	ND	mg/kg		1		SW7471A	04/19/07 14:26 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Selenium	ND	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Silver	ND	mg/kg		5		SW6010B	04/19/07 00:06 / rlh
Zinc	39	mg/kg		5		SW6010B	04/19/07 00:06 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project:
Lab ID: B07110830-001
Client Sample ID: CH-06-05 49.5 to 59.5

Report Date: 11/27/07
Collection Date: Not Provided
DateReceived: 11/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	24	%		1		ASA15-5	11/18/07 15:17 / srm
Silt	49	%		1		ASA15-5	11/18/07 15:17 / srm
Clay	27	%		1		ASA15-5	11/18/07 15:17 / srm
Very Fine Sand	16	wt%		1		ASA15-5	11/18/07 15:20 / srm
Texture	CL					ASA15-5	11/18/07 15:17 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	11/18/07 15:17 / srm
Conductivity, sat. paste	5.63	mmhos/cm		0.01		ASA10-3	11/18/07 15:17 / srm
Saturation	66.5	%		0.1		USDA27a	11/18/07 15:17 / srm
Calcium, sat. paste	3.37	meq/L		0.05		SW6010B	11/16/07 05:06 / rlh
Magnesium, sat. paste	2.05	meq/L		0.08		SW6010B	11/16/07 05:06 / rlh
Potassium, sat. paste	0.63	meq/L		0.03		SW6010B	11/16/07 05:06 / rlh
Sodium, sat. paste	55.8	meq/L		0.04		SW6010B	11/16/07 05:06 / rlh
Sodium Adsorption Ratio (SAR)	33.9	unitless		0.01		Calculation	11/18/07 15:17 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	39	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid Potential	13	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid/Base Potential	26	t/kt				Sobek Modifie	11/18/07 15:12 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	3.9	%		0.1		USDA23c	11/18/07 15:12 / srm
Organic Carbon	0.96	wt%		0.02		ASA29-3	11/18/07 15:22 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	11/16/07 20:32 / srm
METALS, WATER EXTRACTABLE							
Boron	1.7	mg/kg		0.1		SW6010B	11/20/07 08:39 / rlh
Selenium	ND	mg/kg		0.1		SW6020	11/19/07 23:36 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Barium	91	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Cadmium	ND	mg/kg		1		SW6010B	11/16/07 01:29 / rlh
Chromium	8	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Copper	8	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Iron	9210	mg/kg	D	20		SW6010B	11/16/07 01:29 / rlh
Lead	10	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Manganese	59	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Mercury	ND	mg/kg		1		SW7471A	11/15/07 14:07 / jjw

Report efinitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client:	Alton Coal Development LLC/Talon Resources	**Report Date:**	11/27/07
Project:		**Collection Date:**	Not Provided
Lab ID:	B07110830-001	**DateReceived:**	11/12/07
Client Sample ID:	CH-06-05 49.5 to 59.5	**Matrix:**	Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Selenium	ND	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Silver	ND	mg/kg		5		SW6010B	11/16/07 01:29 / rlh
Zinc	39	mg/kg		5		SW6010B	11/16/07 01:29 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project:
Lab ID: B07110830-002
Client Sample ID: CH-06-05 59.5 to 62.3

Report Date: 11/27/07
Collection Date: Not Provided
DateReceived: 11/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	40	%		1		ASA15-5	11/18/07 15:17 / srm
Silt	41	%		1		ASA15-5	11/18/07 15:17 / srm
Clay	19	%		1		ASA15-5	11/18/07 15:17 / srm
Very Fine Sand	29	wt%		1		ASA15-5	11/18/07 15:20 / srm
Texture	L					ASA15-5	11/18/07 15:17 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	6.90	s.u.		0.10		ASAM10-3.2	11/18/07 15:17 / srm
Conductivity, sat. paste	7.29	mmhos/cm		0.01		ASA10-3	11/18/07 15:17 / srm
Saturation	39.0	%		0.1		USDA27a	11/18/07 15:17 / srm
Calcium, sat. paste	18.2	meq/L	D	0.1		SW6010B	11/16/07 05:14 / rlh
Magnesium, sat. paste	13.2	meq/L	D	0.1		SW6010B	11/16/07 05:14 / rlh
Potassium, sat. paste	1.34	meq/L		0.03		SW6010B	11/16/07 05:14 / rlh
Sodium, sat. paste	65.8	meq/L	D	0.08		SW6010B	11/16/07 05:14 / rlh
Sodium Adsorption Ratio (SAR)	16.6	unitless		0.01		Calculation	11/18/07 15:17 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	43	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid Potential	10	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid/Base Potential	34	t/kt				Sobek Modifie	11/18/07 15:12 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	4.3	%		0.1		USDA23c	11/18/07 15:12 / srm
Organic Carbon	1.30	wt%		0.02		ASA29-3	11/18/07 15:22 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	11/16/07 20:32 / srm
METALS, WATER EXTRACTABLE							
Boron	1.6	mg/kg		0.1		SW6010B	11/20/07 08:47 / rlh
Selenium	ND	mg/kg		0.1		SW6020	11/19/07 23:50 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Barium	17	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Cadmium	ND	mg/kg		1		SW6010B	11/16/07 01:32 / rlh
Chromium	7	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Copper	6	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Iron	6000	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Lead	6	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Manganese	36	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Mercury	ND	mg/kg		1		SW7471A	11/15/07 14:09 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project:
Lab ID: B07110830-002
Client Sample ID: CH-06-05 59.5 to 62.3

Report Date: 11/27/07
Collection Date: Not Provided
DateReceived: 11/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Selenium	ND	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Silver	ND	mg/kg		5		SW6010B	11/16/07 01:32 / rlh
Zinc	24	mg/kg		5		SW6010B	11/16/07 01:32 / rlh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project:
Lab ID: B07110830-003
Client Sample ID: CH-06-05 79.5 to 83.5

Report Date: 11/27/07
Collection Date: Not Provided
DateReceived: 11/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	6	%		1		ASA15-5	11/18/07 15:17 / srm
Silt	52	%		1		ASA15-5	11/18/07 15:17 / srm
Clay	42	%		1		ASA15-5	11/18/07 15:17 / srm
Very Fine Sand	4	wt%		1		ASA15-5	11/18/07 15:20 / srm
Texture	SiC					ASA15-5	11/18/07 15:17 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	11/18/07 15:17 / srm
Conductivity, sat. paste	2.80	mmhos/cm		0.01		ASA10-3	11/18/07 15:17 / srm
Saturation	46.0	%		0.1		USDA27a	11/18/07 15:17 / srm
Calcium, sat. paste	0.35	meq/L		0.05		SW6010B	11/16/07 05:21 / rlh
Magnesium, sat. paste	0.23	meq/L		0.08		SW6010B	11/16/07 05:21 / rlh
Potassium, sat. paste	0.31	meq/L		0.03		SW6010B	11/16/07 05:21 / rlh
Sodium, sat. paste	26.1	meq/L		0.04		SW6010B	11/16/07 05:21 / rlh
Sodium Adsorption Ratio (SAR)	48.5	unitless		0.01		Calculation	11/18/07 15:17 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	16	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid Potential	3.0	t/kt		1.0		Sobek Modifie	11/18/07 15:12 / srm
Acid/Base Potential	13	t/kt				Sobek Modifie	11/18/07 15:12 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	1.6	%		0.1		USDA23c	11/18/07 15:12 / srm
Organic Carbon	1.67	wt%		0.02		ASA29-3	11/18/07 15:22 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	11/16/07 20:33 / srm
METALS, WATER EXTRACTABLE							
Boron	2.0	mg/kg		0.1		SW6010B	11/20/07 08:54 / rlh
Selenium	0.2	mg/kg		0.1		SW6020	11/19/07 23:57 / sas
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Barium	25	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Cadmium	ND	mg/kg		1		SW6010B	11/16/07 01:36 / rlh
Chromium	23	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Copper	30	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Iron	8430	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Lead	25	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Manganese	57	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Mercury	ND	mg/kg		1		SW7471A	11/15/07 14:11 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project:
Lab ID: B07110830-003
Client Sample ID: CH-06-05 79.5 to 83.5

Report Date: 11/27/07
Collection Date: Not Provided
DateReceived: 11/12/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Selenium	ND	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Silver	ND	mg/kg		5		SW6010B	11/16/07 01:36 / rlh
Zinc	90	mg/kg		5		SW6010B	11/16/07 01:36 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-005
Client Sample ID: CH-07 0 - 6 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	2	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	45	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	53	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	4.27	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	88.3	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	4.91	meq/L		0.05		SW6010B	12/14/07 07:24 / rlh
Magnesium, sat. paste	10.9	meq/L		0.08		SW6010B	12/14/07 07:24 / rlh
Potassium, sat. paste	0.34	meq/L		0.03		SW6010B	12/14/07 07:24 / rlh
Sodium, sat. paste	36.5	meq/L		0.04		SW6010B	12/14/07 07:24 / rlh
Sodium Adsorption Ratio (SAR)	13.0	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	190	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	1.4	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	190	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	19.4	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.84	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	2	mg/kg		1		ASA33-8.1	12/14/07 16:34 / srm
METALS, WATER EXTRACTABLE							
Boron	0.6	mg/kg		0.1		SW6010B	12/14/07 02:44 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 15:36 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	7	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Barium	130	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:41 / rlh
Chromium	21	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Copper	15	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Iron	16400	mg/kg	D	20		SW6010B	12/11/07 21:41 / rlh
Lead	14	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Manganese	255	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:14 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-005
Client Sample ID: CH-07 0 - 6 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:41 / rlh
Zinc	54	mg/kg		5		SW6010B	12/11/07 21:41 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-006
Client Sample ID: CH-07 6 - 15 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	10	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	41	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	49	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	3	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.50	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	9.33	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	101	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	23.2	meq/L	D	0.1		SW6010B	12/14/07 07:28 / rlh
Magnesium, sat. paste	33.0	meq/L	D	0.1		SW6010B	12/14/07 07:28 / rlh
Potassium, sat. paste	0.71	meq/L		0.03		SW6010B	12/14/07 07:28 / rlh
Sodium, sat. paste	84.2	meq/L	D	0.08		SW6010B	12/14/07 07:28 / rlh
Sodium Adsorption Ratio (SAR)	15.9	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	220	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	1.1	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	220	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	21.8	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.33	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:35 / srm
METALS, WATER EXTRACTABLE							
Boron	0.8	mg/kg		0.1		SW6010B	12/14/07 02:48 / rlh
Selenium	0.03	mg/kg		0.01		SW6020	12/13/07 15:40 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Barium	91	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:45 / rlh
Chromium	15	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Copper	12	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Iron	11800	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Lead	11	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Manganese	179	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:16 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-006
Client Sample ID: CH-07 6 - 15 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:45 / rlh
Zinc	36	mg/kg		5		SW6010B	12/11/07 21:45 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-007
Client Sample ID: CH-07 15 - 19 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	5	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	45	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	50	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	4	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	10.0	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	89.4	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	22.8	meq/L	D	0.1		SW6010B	12/14/07 07:32 / rlh
Magnesium, sat. paste	18.4	meq/L	D	0.1		SW6010B	12/14/07 07:32 / rlh
Potassium, sat. paste	1.34	meq/L		0.03		SW6010B	12/14/07 07:32 / rlh
Sodium, sat. paste	106	meq/L	D	0.08		SW6010B	12/14/07 07:32 / rlh
Sodium Adsorption Ratio (SAR)	23.3	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	170	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	170	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	17.0	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.39	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:36 / srm
METALS, WATER EXTRACTABLE							
Boron	0.5	mg/kg		0.1		SW6010B	12/14/07 02:59 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 15:45 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	6	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Barium	53	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:48 / rlh
Chromium	10	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Copper	9	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Iron	9500	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Lead	9	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Manganese	109	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:22 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-007
Client Sample ID: CH-07 15 - 19 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:48 / rlh
Zinc	26	mg/kg		5		SW6010B	12/11/07 21:48 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-008
Client Sample ID: CH-07 19 - 27 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	43	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	57	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	8.71	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	134	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	20.5	meq/L	D	0.1		SW6010B	12/14/07 07:36 / rlh
Magnesium, sat. paste	11.1	meq/L	D	0.1		SW6010B	12/14/07 07:36 / rlh
Potassium, sat. paste	1.01	meq/L		0.03		SW6010B	12/14/07 07:36 / rlh
Sodium, sat. paste	90.5	meq/L	D	0.08		SW6010B	12/14/07 07:36 / rlh
Sodium Adsorption Ratio (SAR)	22.8	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	110	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	3.2	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	100	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	10.7	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.66	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:36 / srm
METALS, WATER EXTRACTABLE							
Boron	0.8	mg/kg		0.1		SW6010B	12/14/07 03:03 / rlh
Selenium	0.01	mg/kg		0.01		SW6020	12/13/07 15:49 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	7	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Barium	56	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:52 / rlh
Chromium	11	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Copper	9	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Iron	11300	mg/kg	D	20		SW6010B	12/11/07 21:52 / rlh
Lead	13	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Manganese	93	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:25 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-008
Client Sample ID: CH-07 19 - 27 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:52 / rlh
Zinc	35	mg/kg		5		SW6010B	12/11/07 21:52 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-009
Client Sample ID: CH-07 27 - 36 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	39	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	61	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	C					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.70	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	3.68	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	259	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	1.69	meq/L		0.05		SW6010B	12/14/07 07:40 / rlh
Magnesium, sat. paste	0.83	meq/L		0.08		SW6010B	12/14/07 07:40 / rlh
Potassium, sat. paste	0.33	meq/L		0.03		SW6010B	12/14/07 07:40 / rlh
Sodium, sat. paste	35.6	meq/L		0.04		SW6010B	12/14/07 07:40 / rlh
Sodium Adsorption Ratio (SAR)	31.7	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	110	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	8.0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	100	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	11.0	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	1.26	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:37 / srm
METALS, WATER EXTRACTABLE							
Boron	3.7	mg/kg		0.1		SW6010B	12/14/07 03:07 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 15:54 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	8	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Barium	52	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:56 / rlh
Chromium	8	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Copper	8	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Iron	9440	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Lead	13	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Manganese	81	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:27 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-009
Client Sample ID: CH-07 27 - 36 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:56 / rlh
Zinc	33	mg/kg		5		SW6010B	12/11/07 21:56 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-010
Client Sample ID: CH-07 36 - 46 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	ND	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	45	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	55	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	9.40	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	0.90	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	240	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	ND	meq/L		0.05		SW6010B	12/14/07 07:44 / rlh
Magnesium, sat. paste	ND	meq/L		0.08		SW6010B	12/14/07 07:44 / rlh
Potassium, sat. paste	0.06	meq/L		0.03		SW6010B	12/14/07 07:44 / rlh
Sodium, sat. paste	9.16	meq/L		0.04		SW6010B	12/14/07 07:44 / rlh
Sodium Adsorption Ratio (SAR)	52.2	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	95	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	8.3	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	87	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	9.5	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	1.09	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:39 / srm
METALS, WATER EXTRACTABLE							
Boron	3.2	mg/kg		0.1		SW6010B	12/14/07 03:11 / rlh
Selenium	0.01	mg/kg		0.01		SW6020	12/13/07 16:17 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Barium	49	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:59 / rlh
Chromium	ND	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Copper	10	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Iron	6820	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Lead	21	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Manganese	86	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:29 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-010
Client Sample ID: CH-07 36 - 46 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	10	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:59 / rlh
Zinc	41	mg/kg		5		SW6010B	12/11/07 21:59 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-011
Client Sample ID: CH-08 0 - 6 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	41	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	41	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	3.95	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	55.8	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	11.5	meq/L		0.05		SW6010B	12/14/07 07:48 / rlh
Magnesium, sat. paste	48.5	meq/L		0.08		SW6010B	12/14/07 07:48 / rlh
Potassium, sat. paste	0.60	meq/L		0.03		SW6010B	12/14/07 07:48 / rlh
Sodium, sat. paste	3.22	meq/L		0.04		SW6010B	12/14/07 07:48 / rlh
Sodium Adsorption Ratio (SAR)	0.59	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	330	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	330	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	32.8	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	1.21	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	2	mg/kg		1		ASA33-8.1	12/14/07 16:40 / srm
METALS, WATER EXTRACTABLE							
Boron	0.4	mg/kg		0.1		SW6010B	12/14/07 03:15 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 16:22 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	8	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Barium	128	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:03 / rlh
Chromium	21	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Copper	13	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Iron	13600	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Lead	11	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Manganese	293	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:31 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-011
Client Sample ID: CH-08 0 - 6 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:03 / rlh
Zinc	47	mg/kg		5		SW6010B	12/11/07 22:03 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-012
Client Sample ID: CH-08 6 - 11 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	60	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	25	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	15	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	10	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SL					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	2.96	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	27.4	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	8.65	meq/L		0.05		SW6010B	12/14/07 07:59 / rlh
Magnesium, sat. paste	30.1	meq/L		0.08		SW6010B	12/14/07 07:59 / rlh
Potassium, sat. paste	0.40	meq/L		0.03		SW6010B	12/14/07 07:59 / rlh
Sodium, sat. paste	3.75	meq/L		0.04		SW6010B	12/14/07 07:59 / rlh
Sodium Adsorption Ratio (SAR)	0.85	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	290	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	290	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	29.2	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.28	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	2	mg/kg		1		ASA33-8.1	12/14/07 16:41 / srm
METALS, WATER EXTRACTABLE							
Boron	0.1	mg/kg		0.1		SW6010B	12/14/07 03:22 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 16:31 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	5	mg/kg		5		SW6010B	12/12/07 23:49 / rlh
Barium	124	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:14 / rlh
Chromium	9	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Copper	6	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Iron	8270	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Lead	6	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Manganese	184	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:33 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-012
Client Sample ID: CH-08 6 - 11 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:14 / rlh
Zinc	24	mg/kg		5		SW6010B	12/11/07 22:14 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-013
Client Sample ID: CH-08 11 - 20 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	42	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	37	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	21	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	6	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	L					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	3.84	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	33.2	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	24.3	meq/L		0.05		SW6010B	12/14/07 08:03 / rlh
Magnesium, sat. paste	24.0	meq/L		0.08		SW6010B	12/14/07 08:03 / rlh
Potassium, sat. paste	0.65	meq/L		0.03		SW6010B	12/14/07 08:03 / rlh
Sodium, sat. paste	7.21	meq/L		0.04		SW6010B	12/14/07 08:03 / rlh
Sodium Adsorption Ratio (SAR)	1.47	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	350	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	350	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	34.6	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.29	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:41 / srm
METALS, WATER EXTRACTABLE							
Boron	0.1	mg/kg		0.1		SW6010B	12/14/07 03:30 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 16:36 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/12/07 23:53 / rlh
Barium	114	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:18 / rlh
Chromium	10	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Copper	8	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Iron	9330	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Lead	5	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Manganese	194	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:35 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-013
Client Sample ID: CH-08 11 - 20 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:18 / rlh
Zinc	26	mg/kg		5		SW6010B	12/11/07 22:18 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-014
Client Sample ID: CH-08 20 - 30 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	4	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	51	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	45	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	0	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.10	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	2.55	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	81.6	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	12.0	meq/L		0.05		SW6010B	12/14/07 08:10 / rlh
Magnesium, sat. paste	7.92	meq/L		0.08		SW6010B	12/14/07 08:10 / rlh
Potassium, sat. paste	0.56	meq/L		0.03		SW6010B	12/14/07 08:10 / rlh
Sodium, sat. paste	11.5	meq/L		0.04		SW6010B	12/14/07 08:10 / rlh
Sodium Adsorption Ratio (SAR)	3.64	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	120	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	120	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	11.6	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.44	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:42 / srm
METALS, WATER EXTRACTABLE							
Boron	0.3	mg/kg		0.1		SW6010B	12/14/07 03:33 / rlh
Selenium	0.01	mg/kg		0.01		SW6020	12/13/07 18:01 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/12/07 23:56 / rlh
Barium	59	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:22 / rlh
Chromium	12	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Copper	12	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Iron	9650	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Lead	11	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Manganese	88	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:37 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-014
Client Sample ID: CH-08 20 - 30 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:22 / rlh
Zinc	38	mg/kg		5		SW6010B	12/11/07 22:22 / rlh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-015
Client Sample ID: CH-08 30 - 40 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	26	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	45	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	29	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	9	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	CL					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.00	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	4.20	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	52.2	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	25.3	meq/L		0.05		SW6010B	12/14/07 08:18 / rlh
Magnesium, sat. paste	15.1	meq/L		0.08		SW6010B	12/14/07 08:18 / rlh
Potassium, sat. paste	0.82	meq/L		0.03		SW6010B	12/14/07 08:18 / rlh
Sodium, sat. paste	17.7	meq/L		0.04		SW6010B	12/14/07 08:18 / rlh
Sodium Adsorption Ratio (SAR)	3.94	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	220	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	0	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	220	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	22.3	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.32	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:44 / srm
METALS, WATER EXTRACTABLE							
Boron	0.3	mg/kg		0.1		SW6010B	12/14/07 03:45 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 18:06 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/13/07 00:00 / rlh
Barium	82	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:25 / rlh
Chromium	10	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Copper	9	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Iron	10000	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Lead	8	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Manganese	166	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:40 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-015
Client Sample ID: CH-08 30 - 40 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:25 / rlh
Zinc	31	mg/kg		5		SW6010B	12/11/07 22:25 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-016
Client Sample ID: CH-08 40 - 50 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	48	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	34	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	8	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiCL					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.10	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	5.44	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	65.1	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	21.4	meq/L		0.05		SW6010B	12/14/07 08:22 / rlh
Magnesium, sat. paste	11.3	meq/L		0.08		SW6010B	12/14/07 08:22 / rlh
Potassium, sat. paste	0.95	meq/L		0.03		SW6010B	12/14/07 08:22 / rlh
Sodium, sat. paste	43.4	meq/L		0.04		SW6010B	12/14/07 08:22 / rlh
Sodium Adsorption Ratio (SAR)	10.7	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	210	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	3.8	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	210	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	21.2	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.65	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:45 / srm
METALS, WATER EXTRACTABLE							
Boron	0.6	mg/kg		0.1		SW6010B	12/14/07 03:49 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 18:11 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	5	mg/kg		5		SW6010B	12/13/07 00:12 / rlh
Barium	94	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:29 / rlh
Chromium	13	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Copper	11	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Iron	12200	mg/kg	D	20		SW6010B	12/11/07 22:29 / rlh
Lead	10	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Manganese	172	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:42 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-016
Client Sample ID: CH-08 40 - 50 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:29 / rlh
Zinc	36	mg/kg		5		SW6010B	12/11/07 22:29 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-017
Client Sample ID: CH-08 50 - 60 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	19	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	46	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	35	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	8	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiCL					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.20	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	5.63	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	71.2	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	16.9	meq/L	D	0.1		SW6010B	12/14/07 08:26 / rlh
Magnesium, sat. paste	10.6	meq/L	D	0.1		SW6010B	12/14/07 08:26 / rlh
Potassium, sat. paste	1.00	meq/L		0.03		SW6010B	12/14/07 08:26 / rlh
Sodium, sat. paste	49.4	meq/L	D	0.08		SW6010B	12/14/07 08:26 / rlh
Sodium Adsorption Ratio (SAR)	13.3	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	210	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	5.2	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	200	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	20.9	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.54	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:46 / srm
METALS, WATER EXTRACTABLE							
Boron	0.7	mg/kg		0.1		SW6010B	12/14/07 03:53 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 18:15 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/13/07 00:15 / rlh
Barium	94	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:32 / rlh
Chromium	13	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Copper	11	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Iron	11000	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Lead	9	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Manganese	165	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:48 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-017
Client Sample ID: CH-08 50 - 60 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:32 / rlh
Zinc	32	mg/kg		5		SW6010B	12/11/07 22:32 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-018
Client Sample ID: CH-08 60 - 70 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	10	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	45	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	45	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	4	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.80	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	4.22	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	123	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	3.09	meq/L		0.05		SW6010B	12/14/07 08:29 / rlh
Magnesium, sat. paste	1.58	meq/L		0.08		SW6010B	12/14/07 08:29 / rlh
Potassium, sat. paste	0.43	meq/L		0.03		SW6010B	12/14/07 08:29 / rlh
Sodium, sat. paste	43.8	meq/L		0.04		SW6010B	12/14/07 08:29 / rlh
Sodium Adsorption Ratio (SAR)	28.7	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	150	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	11	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	140	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	15.2	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	0.70	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:46 / srm
METALS, WATER EXTRACTABLE							
Boron	0.8	mg/kg		0.1		SW6010B	12/14/07 03:57 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 18:20 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/13/07 00:19 / rlh
Barium	91	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 22:36 / rlh
Chromium	16	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Copper	14	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Iron	12900	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Lead	12	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Manganese	148	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:50 / jjw

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-018
Client Sample ID: CH-08 60 - 70 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 22:36 / rlh
Zinc	45	mg/kg		5		SW6010B	12/11/07 22:36 / rlh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-001
Client Sample ID: CH-08 70-79 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	8	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	59	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	33	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	2	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiCL					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.60	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	2.68	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	94.8	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	0.50	meq/L		0.05		SW6010B	12/14/07 06:54 / rlh
Magnesium, sat. paste	0.27	meq/L		0.08		SW6010B	12/14/07 06:54 / rlh
Potassium, sat. paste	0.23	meq/L		0.03		SW6010B	12/14/07 06:54 / rlh
Sodium, sat. paste	26.1	meq/L		0.04		SW6010B	12/14/07 06:54 / rlh
Sodium Adsorption Ratio (SAR)	42.1	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	170	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	9.8	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	160	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	16.7	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	1.70	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:31 / srm
METALS, WATER EXTRACTABLE							
Boron	1.0	mg/kg		0.1		SW6010B	12/14/07 02:20 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 14:40 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	8	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Barium	74	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:08 / rlh
Chromium	12	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Copper	11	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Iron	13700	mg/kg	D	20		SW6010B	12/11/07 21:08 / rlh
Lead	11	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Manganese	162	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 07:59 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-001
Client Sample ID: CH-08 70-79 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:08 / rlh
Zinc	39	mg/kg		5		SW6010B	12/11/07 21:08 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-002
Client Sample ID: CH-08 79.2 - 82.3 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	35	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	41	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	24	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	18	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	L					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.30	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	1.90	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	55.1	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	0.20	meq/L		0.05		SW6010B	12/14/07 06:58 / rlh
Magnesium, sat. paste	0.15	meq/L		0.08		SW6010B	12/14/07 06:58 / rlh
Potassium, sat. paste	0.16	meq/L		0.03		SW6010B	12/14/07 06:58 / rlh
Sodium, sat. paste	20.8	meq/L		0.04		SW6010B	12/14/07 06:58 / rlh
Sodium Adsorption Ratio (SAR)	49.8	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	45	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	20	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	25	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	4.5	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	7.72	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	12/14/07 16:31 / srm
METALS, WATER EXTRACTABLE							
Boron	1.7	mg/kg		0.1		SW6010B	12/14/07 02:28 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 14:49 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	6	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Barium	105	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:19 / rlh
Chromium	7	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Copper	8	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Iron	6860	mg/kg	D	20		SW6010B	12/11/07 21:19 / rlh
Lead	7	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Manganese	48	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:07 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-002
Client Sample ID: CH-08 79.2 - 82.3 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:19 / rlh
Zinc	25	mg/kg		5		SW6010B	12/11/07 21:19 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-003
Client Sample ID: CH-08 82.3 - 83.8 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	50	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	31	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	19	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	19	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	L					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.50	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	6.48	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	37.9	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	9.4	meq/L	D	0.1		SW6010B	12/14/07 07:01 / rlh
Magnesium, sat. paste	4.2	meq/L	D	0.1		SW6010B	12/14/07 07:01 / rlh
Potassium, sat. paste	0.90	meq/L		0.03		SW6010B	12/14/07 07:01 / rlh
Sodium, sat. paste	63.6	meq/L	D	0.08		SW6010B	12/14/07 07:01 / rlh
Sodium Adsorption Ratio (SAR)	24.5	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	37	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	13	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	24	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	3.7	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	1.82	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8.1	12/14/07 16:32 / srm
METALS, WATER EXTRACTABLE							
Boron	1.4	mg/kg		0.1		SW6010B	12/14/07 02:36 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 15:27 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Barium	54	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:34 / rlh
Chromium	5	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Copper	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Iron	6810	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Lead	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Manganese	35	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:09 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-003
Client Sample ID: CH-08 82.3 - 83.8 ft

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:34 / rlh
Zinc	13	mg/kg		5		SW6010B	12/11/07 21:34 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-004
Client Sample ID: CH-08 101 - 103 ft underburden

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	16	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	42	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	42	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	7	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	SiC					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	8.40	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	6.72	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	110	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	2.5	meq/L	D	0.1		SW6010B	12/14/07 07:17 / rlh
Magnesium, sat. paste	2.1	meq/L	D	0.1		SW6010B	12/14/07 07:17 / rlh
Potassium, sat. paste	0.54	meq/L		0.03		SW6010B	12/14/07 07:17 / rlh
Sodium, sat. paste	72.8	meq/L	D	0.08		SW6010B	12/14/07 07:17 / rlh
Sodium Adsorption Ratio (SAR)	48.1	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	110	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	14	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	93	t/kt				Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	10.7	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	4.60	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:33 / srm
METALS, WATER EXTRACTABLE							
Boron	6.5	mg/kg		0.1		SW6010B	12/14/07 02:40 / rlh
Selenium	0.02	mg/kg		0.01		SW6020	12/13/07 15:31 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Barium	79	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/11/07 21:38 / rlh
Chromium	13	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Copper	13	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Iron	10900	mg/kg	D	20		SW6010B	12/11/07 21:38 / rlh
Lead	13	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Manganese	127	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 08:12 / jjw

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120398-004
Client Sample ID: CH-08 101 - 103 ft underburden

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/06/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Molybdenum	ND	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Selenium	ND	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Silver	ND	mg/kg		5		SW6010B	12/11/07 21:38 / rlh
Zinc	46	mg/kg		5		SW6010B	12/11/07 21:38 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120636-001
Client Sample ID: Composite of CH-08 Coal Core and Rotary

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/10/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	80	%		1		ASA15-5	12/17/07 11:49 / srm
Silt	11	%		1		ASA15-5	12/17/07 11:49 / srm
Clay	9	%		1		ASA15-5	12/17/07 11:49 / srm
Very Fine Sand	6	wt%		1		ASA15-5	12/17/07 13:38 / srm
Texture	LS					ASA15-5	12/17/07 11:49 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.50	s.u.		0.10		ASAM10-3.2	12/17/07 11:49 / srm
Conductivity, sat. paste	4.04	mmhos/cm		0.01		ASA10-3	12/17/07 11:49 / srm
Saturation	64.7	%		0.1		USDA27a	12/17/07 11:49 / srm
Calcium, sat. paste	1.44	meq/L		0.05		SW6010B	12/15/07 02:35 / rlh
Magnesium, sat. paste	1.06	meq/L		0.08		SW6010B	12/15/07 02:35 / rlh
Potassium, sat. paste	0.30	meq/L		0.03		SW6010B	12/15/07 02:35 / rlh
Sodium, sat. paste	37.7	meq/L		0.04		SW6010B	12/15/07 02:35 / rlh
Sodium Adsorption Ratio (SAR)	33.8	unitless		0.01		Calculation	12/17/07 11:49 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	32	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	41	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	-10	t/kt				Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Total	1.48	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Hot Water Extractable	0.16	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HCl Extractable	0.12	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HNO3 Extractable	0.58	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Residual	0.62	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	3.2	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	42.8	wt%		0.02		ASA29-3	12/17/07 11:49 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:48 / srm
METALS, WATER EXTRACTABLE							
Boron	7.4	mg/kg		0.1		SW6010B	12/14/07 04:05 / rlh
Selenium	ND	mg/kg		0.1		SW6020	12/13/07 18:29 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg	D	8		SW6010B	12/13/07 22:14 / rlh
Barium	99	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/13/07 22:14 / rlh
Chromium	ND	mg/kg		5		SW6010B	12/13/07 22:14 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120636-001
Client Sample ID: Composite of CH-08 Coal Core and Rotary

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/10/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Copper	19	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Iron	5350	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Lead	ND	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Manganese	28	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 15:45 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Selenium	0.7	mg/kg		0.1		SW6020	12/17/07 14:18 / sas
Silver	ND	mg/kg		5		SW6010B	12/13/07 22:14 / rlh
Zinc	16	mg/kg		5		SW6010B	12/13/07 22:14 / rlh

Report Definitions:
RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project: Coal Hollow Project
Lab ID: B07120524-001
Client Sample ID: CH-01-05, Coal Grab Sample

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/07/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	92	%		1		ASA15-5	12/14/07 12:59 / srm
Silt	5	%		1		ASA15-5	12/14/07 12:59 / srm
Clay	3	%		1		ASA15-5	12/14/07 12:59 / srm
Very Fine Sand	5	wt%		1		ASA15-5	12/17/07 13:35 / srm
Texture	S					ASA15-5	12/14/07 12:59 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	5.70	s.u.		0.10		ASAM10-3.2	12/14/07 12:51 / srm
Conductivity, sat. paste	3.04	mmhos/cm		0.01		ASA10-3	12/14/07 12:51 / srm
Saturation	75.0	%		0.1		USDA27a	12/14/07 12:51 / srm
Calcium, sat. paste	24.8	meq/L		0.05		SW6010B	12/14/07 08:33 / rlh
Magnesium, sat. paste	15.5	meq/L		0.08		SW6010B	12/14/07 08:33 / rlh
Potassium, sat. paste	0.22	meq/L		0.03		SW6010B	12/14/07 08:33 / rlh
Sodium, sat. paste	4.42	meq/L		0.04		SW6010B	12/14/07 08:33 / rlh
Sodium Adsorption Ratio (SAR)	0.99	unitless		0.01		Calculation	12/14/07 12:51 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	25	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	81	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	-56	t/kt				Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Total	2.78	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Hot Water Extractable	0.18	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HCl Extractable	0.01	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HNO3 Extractable	1.34	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Residual	1.25	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	2.5	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	38.5	wt%		0.02		ASA29-3	12/14/07 12:51 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/14/07 16:47 / srm
METALS, WATER EXTRACTABLE							
Boron	5.6	mg/kg		0.1		SW6010B	12/14/07 04:01 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/13/07 18:25 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg	D	8		SW6010B	12/13/07 00:43 / rlh
Barium	53	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/13/07 00:43 / rlh
Chromium	ND	mg/kg		5		SW6010B	12/13/07 00:43 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal
Project: Coal Hollow Project
Lab ID: B07120524-001
Client Sample ID: CH-01-05, Coal Grab Sample

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/07/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Copper	9	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Iron	8830	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Lead	ND	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Manganese	47	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 09:10 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Selenium	ND	mg/kg	D	8		SW6010B	12/13/07 00:43 / rlh
Silver	ND	mg/kg		5		SW6010B	12/13/07 00:43 / rlh
Zinc	17	mg/kg		5		SW6010B	12/13/07 00:43 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project: Coal Hollow Project
Lab ID: B07121124-001
Client Sample ID CH-03-05 Composite Coal

Report Date: 01/04/08
Collection Date: Not Provided
DateReceived: 12/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	89	%		1		ASA15-5	12/21/07 11:43 / srm
Silt	10	%		1		ASA15-5	12/21/07 11:43 / srm
Clay	1	%		1		ASA15-5	12/21/07 11:43 / srm
Very Fine Sand	3	wt%		1		ASA15-5	12/21/07 11:43 / srm
Texture	S					ASA15-5	12/21/07 11:43 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	5.60	s.u.		0.10		ASAM10-3.2	12/21/07 11:43 / srm
Conductivity, sat. paste	2.50	mmhos/cm		0.01		ASA10-3	12/21/07 11:43 / srm
Saturation	79.3	%		0.1		USDA27a	12/21/07 11:43 / srm
Calcium, sat. paste	12.5	meq/L		0.05		SW6010B	12/20/07 18:57 / rlh
Magnesium, sat. paste	10.6	meq/L		0.08		SW6010B	12/20/07 18:57 / rlh
Potassium, sat. paste	0.23	meq/L		0.03		SW6010B	12/20/07 18:57 / rlh
Sodium, sat. paste	9.73	meq/L		0.04		SW6010B	12/20/07 18:57 / rlh
Sodium Adsorption Ratio (SAR)	2.87	unitless		0.01		Calculation	12/21/07 11:43 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	17	t/kt		1.0		Sobek Modifie	12/20/07 00:00 / srm
Acid Potential	38	t/kt		1.0		Sobek Modifie	12/20/07 00:00 / srm
Acid/Base Potential	-22	t/kt				Sobek Modifie	12/20/07 00:00 / srm
Sulfur, Total	1.25	%		0.01		Sobek Modifie	12/20/07 00:00 / srm
Sulfur, Hot Water Extractable	0.02	%		0.01		Sobek Modifie	12/20/07 00:00 / srm
Sulfur, HCl Extractable	ND	%		0.01		Sobek Modifie	12/20/07 00:00 / srm
Sulfur, HNO3 Extractable	0.48	%		0.01		Sobek Modifie	12/20/07 00:00 / srm
Sulfur, Residual	0.74	%		0.01		Sobek Modifie	12/20/07 00:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	1.7	%		0.1		USDA23c	12/20/07 00:00 / srm
Organic Carbon	43.0	wt%		0.02		ASA29-3	12/21/07 09:16 / srm
Nitrate as N, KCL Extract	1	mg/kg		1		ASA33-8.1	12/21/07 15:59 / srm
METALS, WATER EXTRACTABLE							
Boron	14.1	mg/kg		0.1		SW6010B	12/21/07 00:38 / rlh
Selenium	ND	mg/kg		0.01		SW6020	12/21/07 03:38 / sam
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg		5		SW6020	12/24/07 13:05 / sam
Barium	58	mg/kg		5		SW6010B	12/20/07 21:58 / rlh
Cadmium	ND	mg/kg		1		SW6020	12/24/07 13:05 / sam
Chromium	ND	mg/kg		5		SW6010B	12/20/07 21:58 / rlh

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development LLC/Talon Resources
Project: Coal Hollow Project
Lab ID: B07121124-001
Client Sample ID CH-03-05 Composite Coal

Report Date: 01/04/08
Collection Date: Not Provided
DateReceived: 12/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Copper	5	mg/kg		5		SW6020	12/24/07 13:05 / sam
Iron	2340	mg/kg		5		SW6010B	12/20/07 21:58 / rlh
Lead	ND	mg/kg		5		SW6020	12/24/07 13:05 / sam
Manganese	10	mg/kg		5		SW6010B	12/20/07 21:58 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/20/07 14:30 / aje
Molybdenum	ND	mg/kg		5		SW6020	12/24/07 13:05 / sam
Selenium	0.7	mg/kg		0.1		SW6020	01/02/08 22:10 / aje
Silver	ND	mg/kg		5		SW6020	12/24/07 13:05 / sam
Zinc	6	mg/kg		5		SW6020	12/24/07 13:05 / sam

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • P.O. Box 30916 • 1120 South 27th Street • Billings, MT 59107-0916
800-735-4489 • 406-252-6325 • 406-252-6069 fax • eli@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120636-004
Client Sample ID: Robinson Creek Outcrop Coal

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/10/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Sand	67	%		1		ASA15-5	12/17/07 11:49 / srm
Silt	26	%		1		ASA15-5	12/17/07 11:49 / srm
Clay	7	%		1		ASA15-5	12/17/07 11:49 / srm
Very Fine Sand	12	wt%		1		ASA15-5	12/17/07 13:38 / srm
Texture	SL					ASA15-5	12/17/07 11:49 / srm
- C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y)							
SATURATED PASTE							
pH, sat. paste	7.10	s.u.		0.10		ASAM10-3.2	12/17/07 11:49 / srm
Conductivity, sat. paste	5.41	mmhos/cm		0.01		ASA10-3	12/17/07 11:49 / srm
Saturation	132	%		0.1		USDA27a	12/17/07 11:49 / srm
Calcium, sat. paste	11.8	meq/L		0.05		SW6010B	12/15/07 02:47 / rlh
Magnesium, sat. paste	34.9	meq/L		0.08		SW6010B	12/15/07 02:47 / rlh
Potassium, sat. paste	0.60	meq/L		0.03		SW6010B	12/15/07 02:47 / rlh
Sodium, sat. paste	27.3	meq/L		0.04		SW6010B	12/15/07 02:47 / rlh
Sodium Adsorption Ratio (SAR)	5.65	unitless		0.01		Calculation	12/17/07 11:49 / srm
ACID-BASE ACCOUNTING							
Neutralization Potential	44	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid Potential	9.4	t/kt		1.0		Sobek Modifie	12/14/07 12:00 / srm
Acid/Base Potential	34	t/kt				Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Total	0.41	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Hot Water Extractable	0.11	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HCl Extractable	0.01	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, HNO3 Extractable	0.02	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
Sulfur, Residual	0.26	%		0.01		Sobek Modifie	12/14/07 12:00 / srm
- The acid base potential was calculated from non-sulfate sulfur.							
CHEMICAL CHARACTERISTICS							
Lime as CaCO3	4.4	%		0.1		USDA23c	12/14/07 12:00 / srm
Organic Carbon	45.2	wt%		0.02		ASA29-3	12/17/07 11:49 / srm
Nitrate as N, KCL Extract	5	mg/kg		1		ASA33-8.1	12/14/07 16:49 / srm
METALS, WATER EXTRACTABLE							
Boron	4.8	mg/kg		0.1		SW6010B	12/14/07 04:16 / rlh
Selenium	ND	mg/kg		0.1		SW6020	12/13/07 19:02 / jjw
METALS, TOTAL - EPA SW846							
Arsenic	ND	mg/kg	D	8		SW6010B	12/13/07 22:21 / rlh
Barium	37	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Cadmium	ND	mg/kg		1		SW6010B	12/13/07 22:21 / rlh
Chromium	ND	mg/kg		5		SW6010B	12/13/07 22:21 / rlh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Alton Coal Development, LLC
Project: Coal Hollow Project
Lab ID: B07120636-004
Client Sample ID: Robinson Creek Outcrop Coal

Report Date: 12/18/07
Collection Date: Not Provided
DateReceived: 12/10/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL - EPA SW846							
Copper	14	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Iron	6660	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Lead	ND	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Manganese	41	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Mercury	ND	mg/kg		1		SW7471A	12/13/07 15:54 / jjw
Molybdenum	ND	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Selenium	2.2	mg/kg		0.1		SW6020	12/17/07 14:32 / sas
Silver	ND	mg/kg		5		SW6010B	12/13/07 22:21 / rlh
Zinc	12	mg/kg		5		SW6010B	12/13/07 22:21 / rlh

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Preliminary Radiation Assessment

By

Applied Geotechnical Engineering Consultants, Inc.

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

December 7, 2007

Alton Coal Development, LLC
463 N 100 W, Suite 1
Cedar City, Utah 84720

Attention: Chris R. McCourt, P.E.

Subject: Consultation
Coal Hollow Coal Project
Alton, Utah

Gentlemen:

Applied Geotechnical Engineering Consultants, Inc. was requested to perform an examination of the drilled cores and core cuttings from the Coal Hollow project located in Alton, Utah. Our examination was performed to provide an indication as to wether or not radioactivity was present in the samples.

Core and core cutting samples were delivered to our laboratory in Cedar City. The samples were contained in standard core sampling boxes or sample bags and were identified by drill hole number, box/bag number and depth. Drill hole and box numbers and/or depths were as follows;

Drill hole CH-02-05 boxes 1-5 and 7-8
Drill hole CH-01-05 boxes 2-3
Drill hole CH-05-05 boxes 2-5, 7-11 and 13
Drill hole CH-06-05 boxes 1-2 and 4
Drill hole CH-03-05 box 2 (coal)
Drill hole CH-8 (0' to 103')
Drill hole CH-7 (0' to 46")

An examination was conducted by scanning each group of samples using a Radiation Alert MC1K radiation monitor. Each box/bag of samples was scanned for several seconds with the box lids off or the bag open.

During our examination no radiation was indicated by the monitor used.

The Radiation monitor was calibrated on 31 May, 2007 and was used in accordance with the manufacturers recommendations.

If you have any questions or if we can be of further service, please call.

Sincerely,

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

Mike Shurtz
MS/msC:\Documents and Settings\Mikes\My Documents\coal hollow letter letterhead.wpd