Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Daron R. Haddock
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: **Phase 1 Bond Release, Alton Coal Development, LLC, Coal Hollow Project, Kane County, Utah, C/025/0005**

Dear Mr. Haddock:

Pursuant to R645-301-880.300, enclosed on behalf of Alton Coal Development, LLC is a copy of the application for Phase 1 Bond Release for select areas of the Coal Hollow Mine as follows:

- Application for Phase 1 Bond Release
- C1 and C2 Forms
- Public Notice for Bond Release Application
- Plan view and cross-section Figures of "Proposed Phase 1 Bond Release"

Also, as required by R645-301-880.600, notifications of the proposed bond release have been made to the following:

- Southern Utah News
- Alecia Swapp Dame Trust - Richard Dame
- C. Burton Pugh
- Heaton Brothers, LLC
- Keith R. & Anne Marie Stanworth
- William and Helen Mackelprang
- G. Ferril and Dorothy M. Heaton
- Dean R. Heaton

- BLM-KFO
- Darlynn Sorensen
- Kane County Planning Commission
- Kane County Water Conservancy District
- Alton Mayor – Alton, Utah

Please contact me at 435-691-1551 should you have any questions or comments. This submittal is being provided electronically, a hard copy with certified drawings will follow.

Sincerely

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☐ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☒ Transfer ☐

Permittee: Alton Coal Development, LLC
Mine: Coal Hollow Mine **Permit Number:** C/025/0005
Title: Phase 1 Bond Release

Description, Include reason for application and timing required to implement:
Phase 1 Bond Release Application

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☒ Yes ☐ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
☒ Yes ☐ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
☐ Yes ☒ No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

B. Kirk Nicholes	Environmental Specialist	07/31/2017	B. Kirk Nicholes
Print Name	Position	Date	Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 31 day of July, 2017

Notary Public: Marty Nicholes, state of Utah.

My commission Expires: 9-11-2017
Commission Number: 670359
Address: 1670 E Millstone Cir
City: Enoch State: UT Zip: 84721

} ss:

Notary Public
MARTY NICHOLES
Commission #670359
My Commission Expires
Sept 11, 2017
State of Utah

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

Form DOGM- C1 (Revised December 10, 2007)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Alton Coal Development, LLC
Mine: Coal Hollow Mine
Permit Number: C/025/0005
Title: Phase 1 Bond Release

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☒ Add	☐ Replace	☐ Remove	Figures 1, 1-A,1-B, 2, and 2-A (add to end of Chapter 8 Drawing section)
☒ Add	☐ Replace	☐ Remove	Appendix 2-7 (end of appendix)
☐ Add	☒ Replace	☐ Remove	Chapter 5, Drawing 5-76A
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining

Application for Phase 1 Bond Release
Coal Hollow Mine

Alton Coal Development, LLC
463 N 100 W, Suite 1
Cedar City, UT 84721

Permit # C/025/0005
Permit Approval 11/08/2010

Alton Coal Development, LLC ("ACD") files this application with the Utah Division of Oil, Gas and Mining for Phase 1 Bond Release for 30.429 acres of the Coal Hollow Mine, C/025/0005.

ACD has met the requirements of the Coal Hollow Mine ("CHM"), Mining and Reclamation Plan ("MRP") and the Utah Coal Rules as to the backfilling and grading standards (refer to Chapter 5, section 553) for Phase I Bond Release (refer to R645-301-880.300). Pre-mining overburden chemical analysis and a discussion of the potential effects on plants growth and water quality are found in Chapter 6 Appendix 6-2, Chapter 2 Section 240 and Chapter 7 Section 728 respectively of the CHM MRP. Pre-mining subsoil chemical analysis and proscribed replacement depths are found in Chapter 2 Appendix 2-1 Section 5 of the MRP. Phase II or Phase III requirements such as topsoil placement dates, chemical analysis or established plant growth are not considered as part of this Phase I release. No sediment control structures have been included as part of this release, and all bond associated with these structures remains unchanged. This application for Phase 1 bond release is for the following described areas of the Coal Hollow Mine ("Reclaimed Coal Mine"):

I. LEGAL DESCRIPTION.

1. BRP1 - 11

The following described lands located in Kane County, Utah within the NW ½, NW 1/4 of Sec. 30, T39S, R5W:

Beginning from the Section Corner 19-24-25-30 T39S, R5W, proceeding S 00°18'35" W a distance of 1298.0170' along the section line to the 1/16 Corner 30, T39S, R6W; thence S 89°21'25" E a distance of 582.5773' to the true point of beginning; thence S 89°21'25" E a distance of 1338.00';thence N 43°55'00" W a distance of 206.58'; thence N 53°12'06" W a distance of 130.05'; thence N 38°40'40" W a distance of 80.00';thence N 47°51'40" W a distance of 76.43'; thence N 67°34'13" W a distance of 127.46'; thence N 48°29'36" W a distance of 177.77'; thence N 59°39'07" W a distance of 50.72'; thence N 50°53'32" W a distance of 48.16'; thence N 48°21'40" W a distance of 47.50'; thence N 42°21'20" W a distance of 53.33'; thence N 54°15'31" W a distance of 43.92'; thence N 39°20'52" W a distance of 100.00'; thence N 52°46'57" W a distance of 31.43'; thence N 88°38'24" W a distance of 20.05'; thence S 77°00'49" W a distance of 46.67'; thence N 67°45'50" W a distance of 23.78'; thence S 82°07'58" W a distance of 31.00'; thence S 65°37'15" W a distance of 99.14'; thence S 57°58'02" W a distance of 56.55'; thence S 61°56'35" W a distance of 100.00'; thence S 23°54'46" W a distance of 113.09'; thence S 08°24'22" W a distance of 322.07'; thence S 05°25'32" W a distance of 189.86'; thence S 05°19'02" W a distance of 6.67'; which is the true point of beginning, having an area of 617,574.89 square feet, **14.178 acres**.

BRP1 - 11 includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.

2. BRP1 - 12

The following described lands located in Kane County, Utah within the NE 1/4 of Sec. 13, T39S, R6W:

Beginning from the Section Corner 7-18 T39S, R5W and 12-13 T39S, R6W, proceeding N 00°33'37" E a distance of 2642.53' along the section line to the Quarter Corner 18, T39S, R5W and 13, T39S, R6W; thence S 78°31'30" W a distance of 1251.46' to the true point of beginning; thence N 03°23'30" W a distance of 1039.93'; thence S 88°14'20" W a distance of 54.10'; thence N 59°03'11" W a distance of 118.05'; thence N 19°54'58" W a distance of 205.61'; thence N 76°59'06" W a distance of 24.99'; thence N 77°54'47" W a distance of 65.78'; thence N 87°20'50" W a distance of 82.42'; thence S 84°15'12" W a distance of 38.66'; thence S 84°15'12" W a distance of 64.32'; thence S 78°05'24" W a distance of 97.27'; thence S 88°15'55" W a distance of 23.21'; thence S 00°55'38" E a distance of 622.13'; thence S 07°31'24" E a distance of 666.91'; thence N 63°53'23" E a distance of 77.21'; thence N 53°44'15" E a distance of 122.44'; thence N 77°05'14" E a distance of 30.42'; thence N 77°05'14" E a distance of 68.91'; thence S 79°57'52" E a distance of 111.05'; thence S 62°03'06" E a distance of 28.26'; thence S 62°03'06" E a distance of 201.25'; thence S 76°24'45" E a distance of 4.49'; which is the true point of beginning, having an area of 707,911.39 square feet, **16.251 acres**.

BRP1 - 12 includes the former Pits 4, Pit 5 and Pit 6 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 12** was completed in July 2017.

II. SURETY BOND REDUCTION

The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

III. PUBLIC NOTICE

As required by R645-301-880.600, notification of the proposed bond release has been made to the following:

- Southern Utah News
- Alecia Swapp Dame Trust - Richard Dame
- C. Burton Pugh
- Heaton Brothers, LLC
- Keith R. Anne Marie Stanworth

- William and Helen Mackelprang
- G. Ferril and Dorothy M. Heaton
- Dean R. Heaton
- BLM-KFO
- Darlynn Sorensen
- Kane County Planning Commission
- Kane County Water Conservancy District
- Alton Mayor – Alton, Utah

Copies of these notices are attached.

IV. CERTIFICATION

I hereby certify to the best of my information and belief that all information contain in this request for bond release is true and correct, to the best of my knowledge and that all applicable reclamation activities have been accomplished in accordance with the requirement of the Act, the regulatory program and the approved reclamation plan.

By B. Kettle

Title Environmental Specialist

Subscribed and Sworn to before me this 31 day of July ~~2015.~~ 2017

Notary Public Marty Nicholes

My Commission Expires: 9-11-2017

Notary Public
MARTY NICHOLES
Commission #670359
My Commission Expires
Sept 11, 2017
State of Utah

Attest: State of Utah

County of Iron

PUBLIC NOTICE PHASE I BOND RELEASE APPLICATION
COAL HOLLOW MINE,
ALTON COAL DEVELOPMENT, LLC

Public Notice
Phase I Bond Release Application
Coal Hollow Mine (CHM)
Alton Coal Development, LLC
463 N 100 W, Suite 1
Cedar City, UT 84721
MSHA # 42-02519
Permit # C/025/0005
Permit Approval 11/08/2010

Notice is hereby given that Alton Coal Development, LLC has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of the Coal Hollow Mine ("CHM " or the "Reclaimed Coal Mine").

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 11 -** A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.
>
> **BRP1 - 12 -** A portion of the CHM within the NE 1/4 of Sec. 13, T39S, R6W, containing **16.251** acres. **BRP1 - 12** includes the former Pits 4, Pit 5, and Pit 6 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 12** was completed in July 2017.

The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Alecia Swapp Dame Trust
c/o Richard Dame, Trustee
1620 Georgia Ave.
Boulder City, Nevada 89005

Dear Mr. Dame:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 11 -** A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.
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The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or

Alecia Swapp Dame Trust
Through Richard Dame, Trustee

requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

C. Burton Pugh
533 N 650 E.
Lindon, Utah 84042-1567

Dear Mr. Pugh:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

BRP1 - 11 - A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.

BRP1 - 12 - A portion of the CHM within the NE 1/4 of Sec. 13, T39S, R6W, containing **16.251** acres. **BRP1 - 12** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 12** was completed in July 2017.

The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice.

C. Burton Pugh

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If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Heaton Brothers, LLC
P.O. Box 100008
Alton, Utah 84710

To whom it may concern:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North

Darlynn Sorensen

Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Keith R Stanworth
119 N 300 W
Cedar City, Utah 84720-2507

Dear Mr. Stanworth:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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Darlynn Sorensen

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Sincerely,

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

William J. Mackelprang
P.O. Box 47
Orderville, Utah 84758

Dear Mr. Mackelprang:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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> **BRP1 - 12 -** A portion of the CHM within the NE 1/4 of Sec. 13, T39S, R6W, containing **16.251** acres. **BRP1 - 12** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 12** was completed in July 2017.

The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said

comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

G, Ferril Heaton
P.O. Box 47
Orderville, Utah 84758

Dear Mr. Heaton:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 11 -** A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.
>
> **BRP1 - 12 -** A portion of the CHM within the NE 1/4 of Sec. 13, T39S, R6W, containing **16.251** acres. **BRP1 - 12** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 12** was completed in July 2017.

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If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Dean R. Heaton
P.O. Box 435
Fredonia, AZ 86022

Dear Mr. Heaton:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

BRP1 - 11 - A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.

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Darlynn Sorensen

This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

BLM-KFO
James Holland
669 South Highway 89A
Kanab, Utah 84741

Dear Mr. Holland:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 11 -** A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.
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The Phase I bond release application is for a liability reduction of $ 2,130,418 from the current disturbance liability of $ 11,816,451. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said

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If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Kane County Planning Commission
180 West 300 North
Kanab, Utah 84741

Dear Mr. McBride:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine). A portion of the area subject to the Phase I Bond Release is leased by ACD from the Alecia Swapp Dame Trust.

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 11 -** A portion of the CHM within the NW ½, NW 1/4 of Sec. 30, T39S, R5W, containing **14.178** acres. **BRP1 - 11** includes the former Pit B1 of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 11** was completed in July 2017.
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If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Kane County Water Conservancy District
190 E. Center Street Suite 200
Kanab, Utah 84741

To whom it may concern:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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Kane County Water Conservancy District

This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 / Fax (435) 867-1192

August 2, 2017

Alton, Utah
Mayor Cox
156 West 100 North
Alton, Utah 84710

Dear Mayor Cox:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 30.429 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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Alton, Utah
Mayor Cox

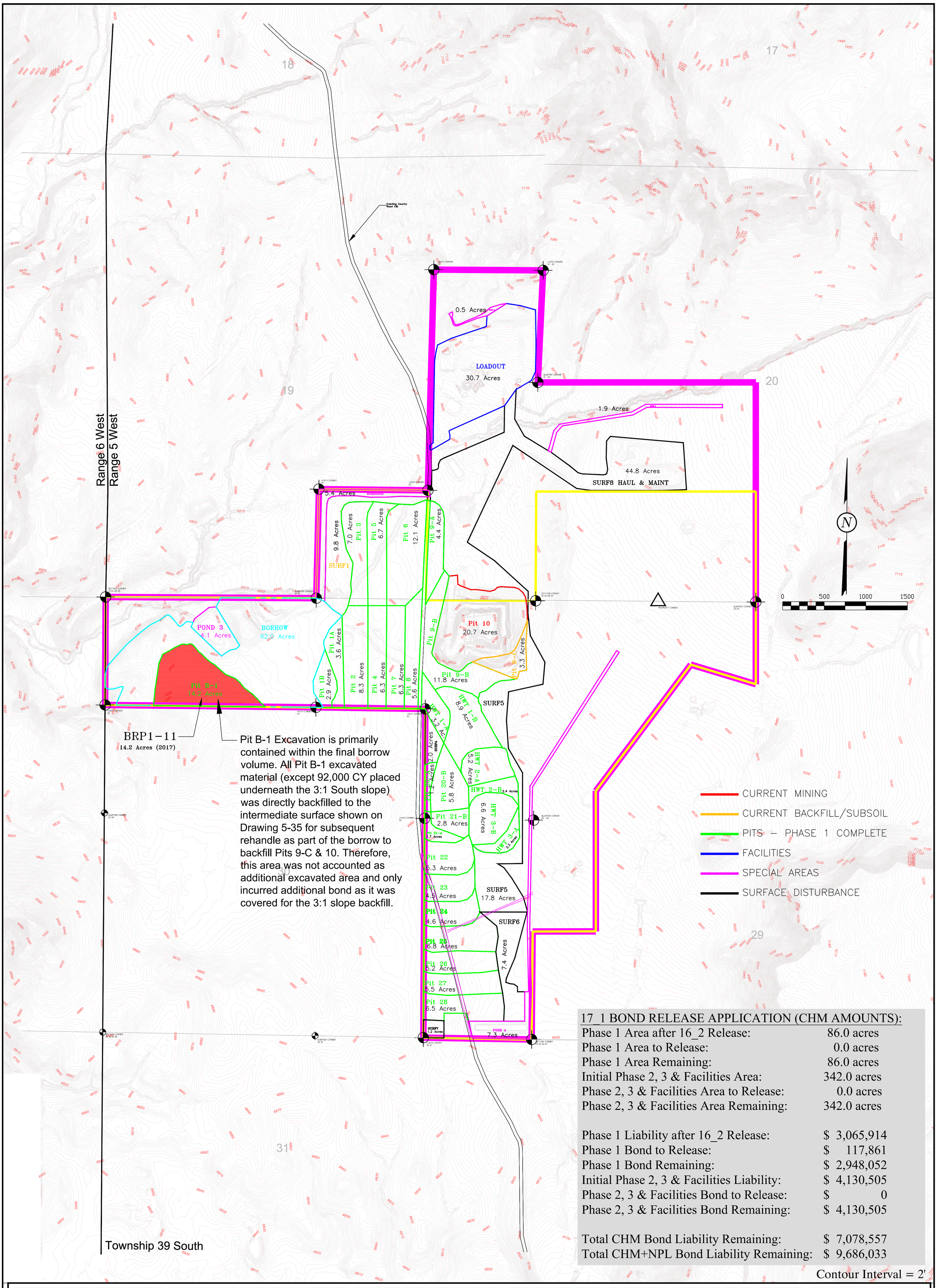
comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Aug. 3rd, 10th, 17th & 24th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist



17_1 BOND RELEASE APPLICATION (CHM AMOUNTS):	
Phase 1 Area after 16_2 Release:	86.0 acres
Phase 1 Area to Release:	0.0 acres
Phase 1 Area Remaining:	86.0 acres
Initial Phase 2, 3 & Facilities Area:	342.0 acres
Phase 2, 3 & Facilities Area to Release:	0.0 acres
Phase 2, 3 & Facilities Area Remaining:	342.0 acres
Phase 1 Liability after 16_2 Release:	$ 3,065,914
Phase 1 Bond to Release:	$ 117,861
Phase 1 Bond Remaining:	$ 2,948,052
Initial Phase 2, 3 & Facilities Liability:	$ 4,130,505
Phase 2, 3 & Facilities Bond to Release:	$ 0
Phase 2, 3 & Facilities Bond Remaining:	$ 4,130,505
Total CHM Bond Liability Remaining:	$ 7,078,557
Total CHM+NPL Bond Liability Remaining:	$ 9,686,033

Contour Interval = 2'

LEGEND:
- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- ULTIMATE PIT BOUNDARY
- DISTURBANCE BNDY
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY:	CHECKED BY:
A. Christensen	KN
DRAWING: Fig. 1	DATE: 8/2/2017
	SCALE: 1" = 500' Printed on 24" x36"
JOB NUMBER:	SHEET

REVISIONS

DATE:	BY:
xx/xx/xx	xx

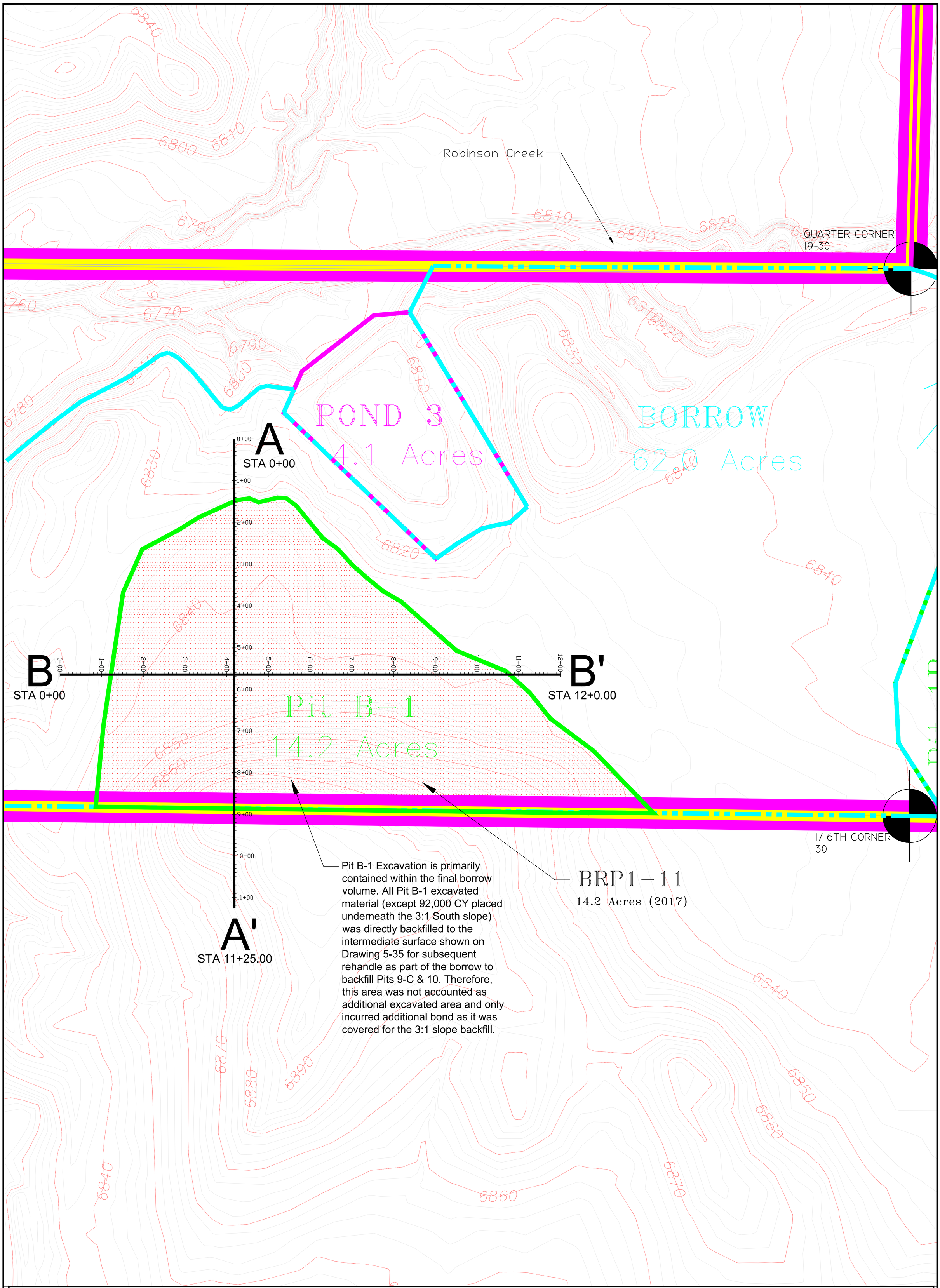
OVERVIEW PROPOSED BOND RELEASE 17_1

COAL HOLLOW PROJECT
ALTON, UTAH

Figure 1

PROFESSIONAL ENGINEER 10230818 ANDREW R. CHRISTENSEN STATE OF UTAH

Alton Coal Development
Coal Hollow Project
463 North 100 West, Suite 1
Cedar City, Utah 84721
Phone (435)867-5331
Fax (435)867-1192



LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- ULTIMATE PIT BOUNDARY
- DISTURBANCE BNDY
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY:	CHECKED BY:
A. Christensen	KN
DRAWING:	DATE:
FIGURE 1-A	8/2/2017
	SCALE: 1" = 100' Printed on 24" x36"
JOB NUMBER:	SHEET

REVISIONS

DATE:	BY:
xx/xx/xx	xx

PROPOSED
PHASE 1
BOND RELEASE
BRP 1-11

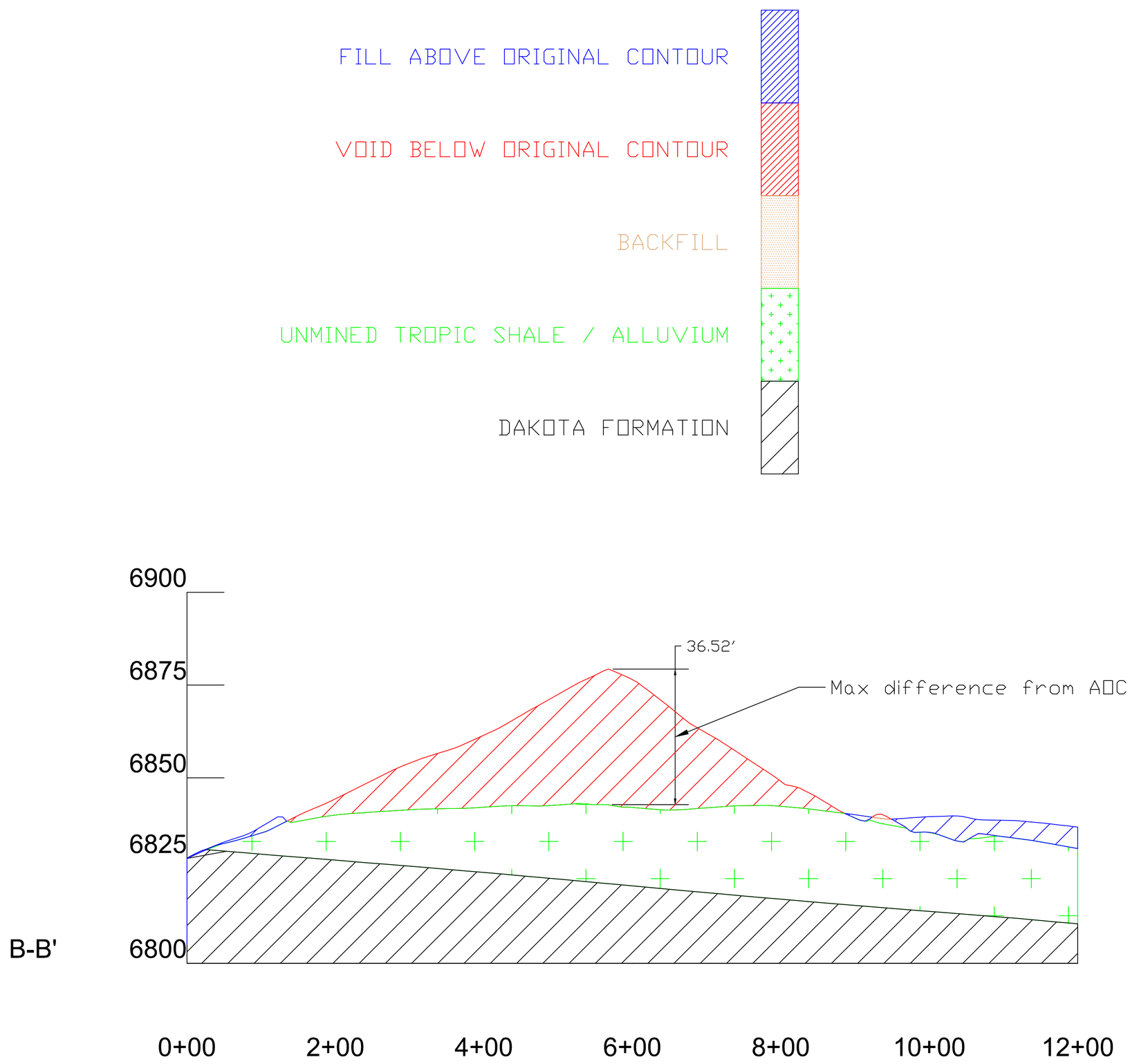
COAL HOLLOW
PROJECT
ALTON, UTAH

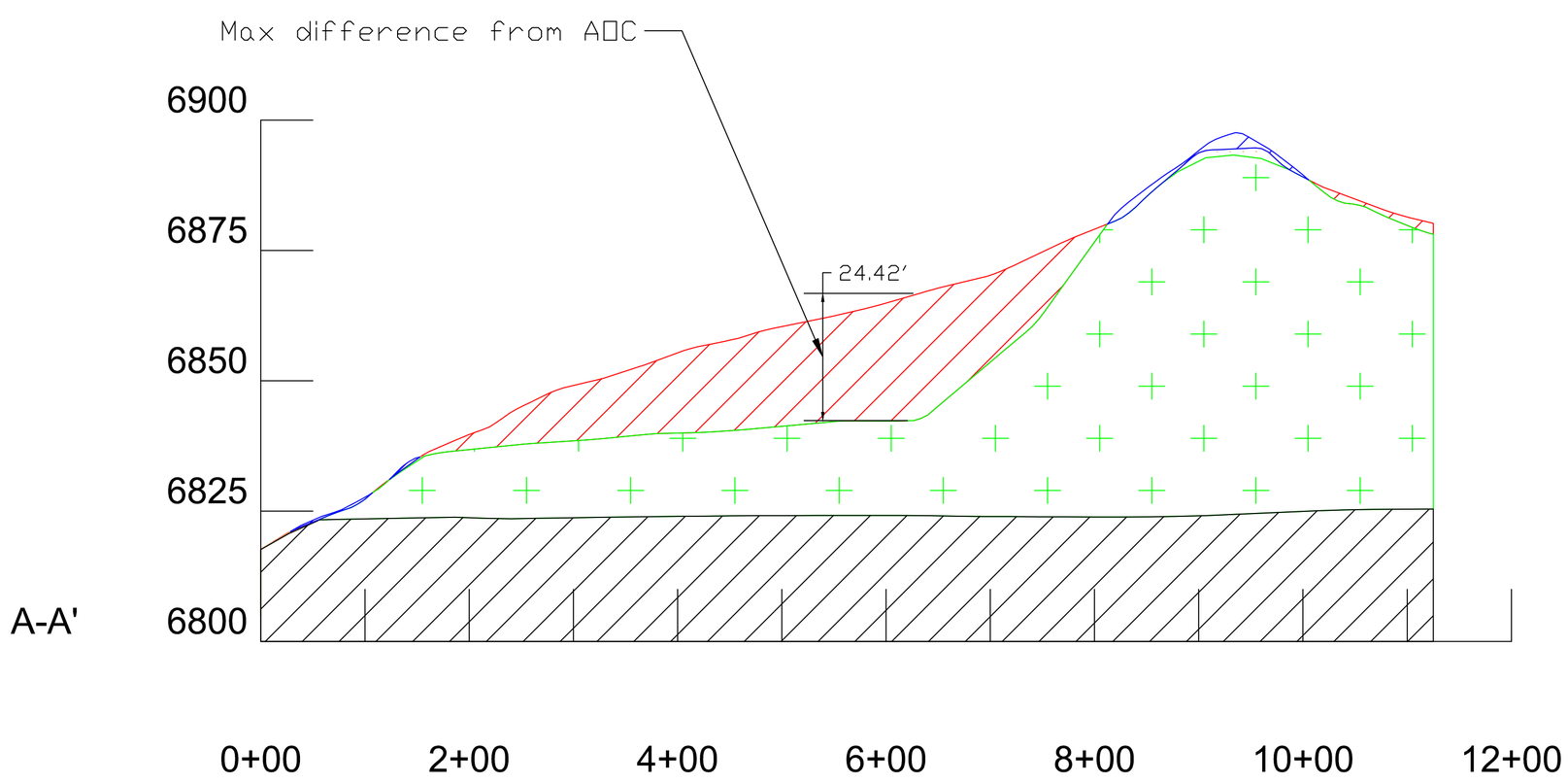
FIGURE 1-A

PROFESSIONAL ENGINEER
10230818
ANDREW R. CHRISTENSEN
STATE OF UTAH

Alton Coal Development
Coal Hollow Project

463 North 100 West, Suite 1
Cedar City, Utah 84721
Phone (435)867-5331
Fax (435)867-1192





X-Section Scale
1"=20'
1"=100'

LEGEND:
- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- ULTIMATE PIT BOUNDARY
- DISTURBANCE BNDY
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY:	CHECKED BY:
A. Christensen	KN
DRAWING: FIGURE 1-B	DATE: 8/2/2017
	SCALE: 1" = 100' Printed on 24" x36"
JOB NUMBER:	SHEET

REVISIONS

DATE:	BY:
xx/xx/xx	xx

CROSS-SECTIONS
BOND RELEASE
BRP 1-11

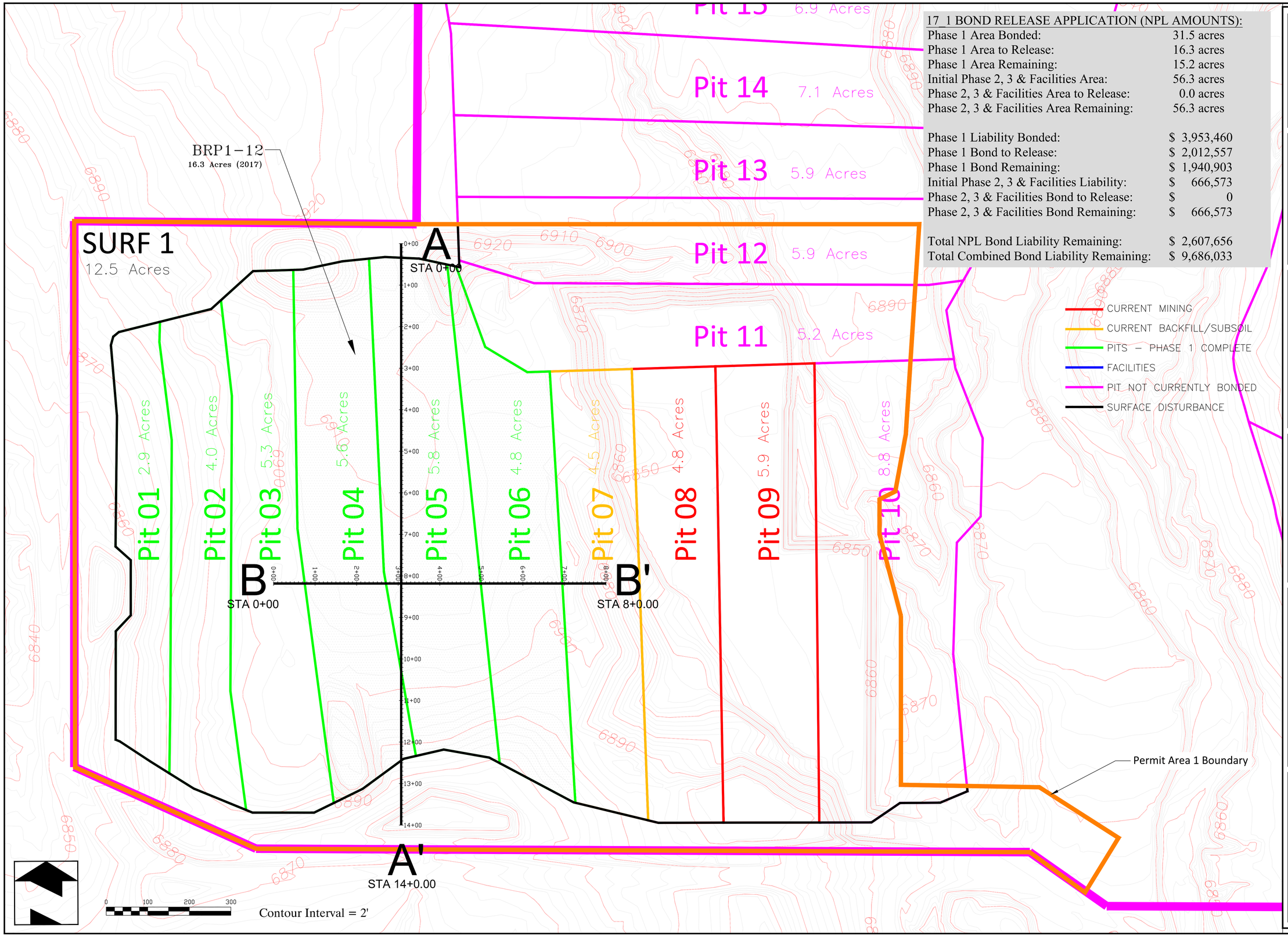
COAL HOLLOW PROJECT
ALTON, UTAH

FIGURE 1-B

PROFESSIONAL ENGINEER 10230818 ANDREW R. CHRISTENSEN STATE OF UTAH

Alton Coal Development
Coal Hollow Project

463 North 100 West, Suite 1
Cedar City, Utah 84721
Phone (435)867-5331
Fax (435)867-1192



17_1 BOND RELEASE APPLICATION (NPL AMOUNTS):

Phase 1 Area Bonded:	31.5 acres
Phase 1 Area to Release:	16.3 acres
Phase 1 Area Remaining:	15.2 acres
Initial Phase 2, 3 & Facilities Area:	56.3 acres
Phase 2, 3 & Facilities Area to Release:	0.0 acres
Phase 2, 3 & Facilities Area Remaining:	56.3 acres
Phase 1 Liability Bonded:	$ 3,953,460
Phase 1 Bond to Release:	$ 2,012,557
Phase 1 Bond Remaining:	$ 1,940,903
Initial Phase 2, 3 & Facilities Liability:	$ 666,573
Phase 2, 3 & Facilities Bond to Release:	$ 0
Phase 2, 3 & Facilities Bond Remaining:	$ 666,573
Total NPL Bond Liability Remaining:	$ 2,607,656
Total Combined Bond Liability Remaining:	$ 9,686,033

Alton Coal Development
Coal Hollow Project
463 North 100 West, Suite 1
Cedar City, Utah 84721
Phone (435)867-5331
Fax (435)867-1192

PROFESSIONAL ENGINEER 10230818 ANDREW R. CHRISTENSEN STATE OF UTAH

OVERVIEW PROPOSED BOND RELEASE 17_1, BRP 1-12

COAL HOLLOW PROJECT
ALTON, UTAH

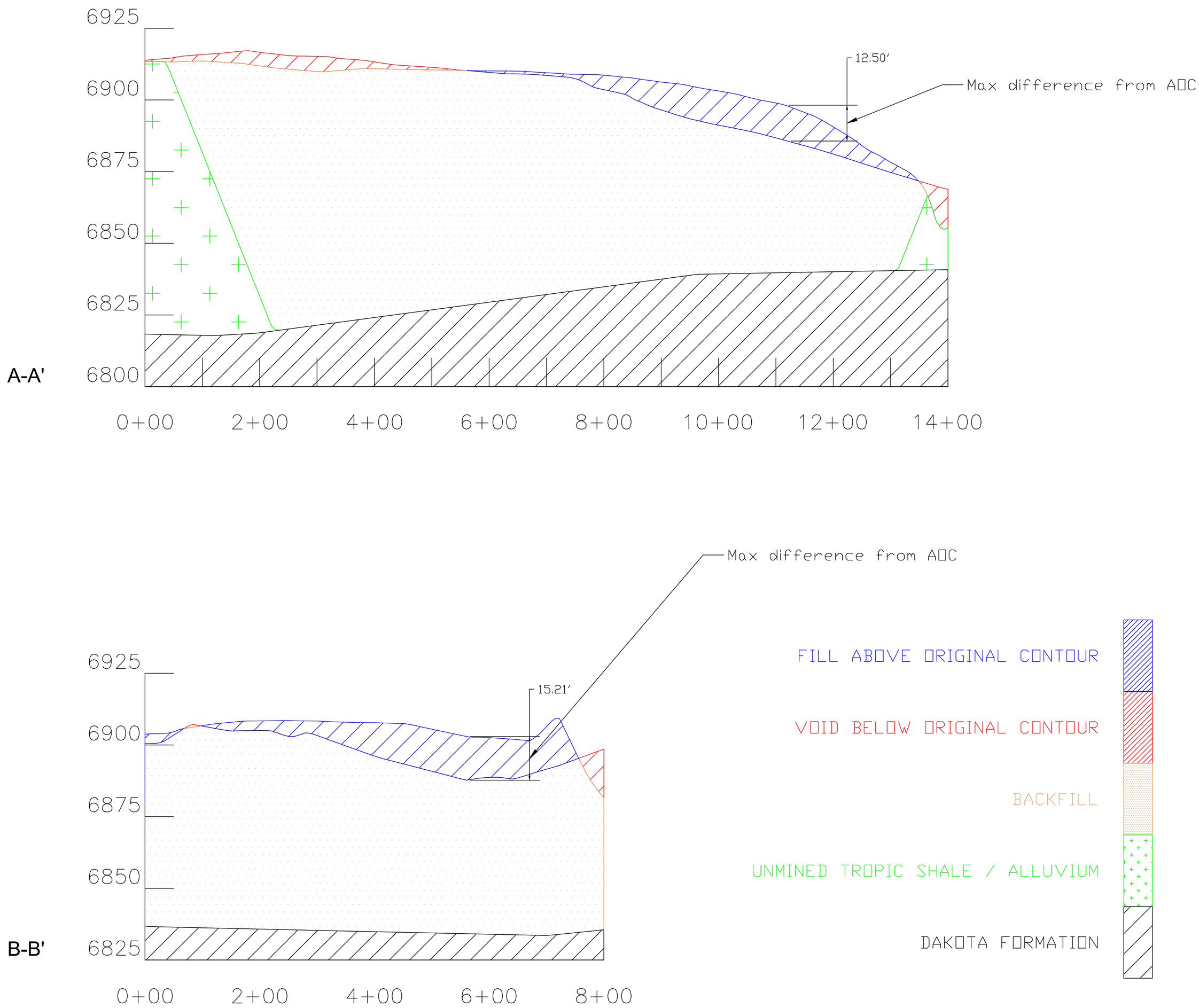
Figure 2

REVISIONS

DATE:	BY:
xx/xx/xx	xx

DRAWN BY: A. Christensen	CHECKED BY: KN
DRAWING: Fig. 2	DATE: 8/2/2017
	SCALE: 1" = 100' Printed on 24" x36"
JOB NUMBER:	SHEET

LEGEND:
- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- ULTIMATE PIT BOUNDARY
- DISTURBANCE BNDY
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER



1"=20' X-Section Scale 1"=100'

LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- ULTIMATE PIT BOUNDARY
- DISTURBANCE BNDY
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY: A. Christensen	CHECKED BY: KN
DRAWING: FIGURE 2-A	DATE: 8/2/2017
	SCALE: 1" = 100' Printed on 24" x36"
JOB NUMBER:	SHEET

REVISIONS

DATE:	BY:
xx/xx/xx	xx

CROSS-SECTIONS
BOND RELEASE
BRP 1-12

COAL HOLLOW PROJECT
ALTON, UTAH

FIGURE 2-A

PROFESSIONAL ENGINEER 10230818 ANDREW R. CHRISTENSEN STATE OF UTAH

Alton Coal Development
Coal Hollow Project
463 North 100 West, Suite 1
Cedar City, Utah 84721
Phone (435)867-5331
Fax (435)867-1192

APPENDIX 2-7 cont.

Soil Accounting and Analytical
Results for Bond Release Areas

BRP1-10 & BRP1-11

SPL	Topsoil Stockpile #1	Topsoil Stockpile #2	Topsoil Stockpile #4	Topsoil Stockpile #6		Subsoil Stockpile #1	Subsoil Stockpile #2	Subsoil Stockpile #3	Subsoil Stockpile #4	
Starting Stockpile Volume	25,289	82,905	50,916	0		73,077	211,207	0		

BRP 1-9 = 9.08 ACRES

Source	Topsoil Stockpile #1	Topsoil Stockpile #2	Topsoil Stockpile #4	Topsoil Stockpile #6	Total Topsoil	Subsoil Stockpile #1	Subsoil Stockpile #2	Subsoil Stockpile #3	Subsoil Stockpile #4	Total Subsoil
	CY	CY	CY	CY	CY	CY	CY	CY		CY
Stockpile volume utilized	0	0	9,761	0	9,761	0	48,806			48,806
Remaining stockpile volume	25,289	82,905	41,155	0		73,077	162,401			

Other Areas Soiled from 3/1/16 to 12/14/16

Source	Topsoil Stockpile #1	Topsoil Stockpile #2	Topsoil Stockpile #4	Topsoil Stockpile #6	Total Topsoil	Subsoil Stockpile #1	Subsoil Stockpile #2	Subsoil Stockpile #3	Subsoil Stockpile #4	Total Subsoil
	CY	CY	CY	CY	CY	CY	CY	CY		CY
Stockpile used other areas*	0	9,728	41,155	0	50,883	0	60,886			60,886
Remaining stockpile volume	25,289	73,177	0	0		73,077	101,515			

*Topsoil and Subsoil placed in ROBINSON, SURF8 HAUL MAINT, PIT 4, PIT 7, PIT 8, PIT 9-B, HWT1-B, SURF-5, HWT 2-A and PIT20-B as shown on Drawing 5-19

Added to Stockpile with Mining of Pit B1

Source	Topsoil Stockpile #1	Topsoil Stockpile #2	Topsoil Stockpile #4	Topsoil Stockpile #6	Total Topsoil	Subsoil Stockpile #1	Subsoil Stockpile #2	Subsoil Stockpile #3	Subsoil Stockpile #4	Total Subsoil
	CY	CY	CY	CY	CY	CY	CY	CY		CY
Stockpile volume added	0	0		6,061	6,061	0	0		99,897	99,897
Remaining stockpile volume	25,289	73,177		6,061		73,077	101,515		99,897	

BRP 1-11 = 14.2 ACRES

Source	Topsoil Stockpile #1	Topsoil Stockpile #2	Topsoil Stockpile #4	Topsoil Stockpile #6	Total Topsoil	Subsoil Stockpile #1	Subsoil Stockpile #2	Subsoil Stockpile #3	Subsoil Stockpile #4	Total Subsoil
	CY	CY	CY	CY	CY	CY	CY	CY		CY
Stockpile volume utilized	0	0		0	0	0	0		99,897	99,897
Remaining stockpile volume	25,289	73,177		6,061		73,077	101,515	0	0	0

NPL AREA 1	Topsoil Stockpile	Subsoil Stockpile
Starting Stockpile Volume	74,953	41,378

BRP 1-10 = 12.21 ACRES

Source	NL Topsoil	Livehaul Topsoil*	Total Topsoil	NL Subsoil	Livehaul Subsoil	Total Subsoil	
	CY	CY	CY	CY	CY	CY	CY
Stockpile volume utilized	18,784	0	18,784	14,071	8,459	22,530	
Suitable spoil**							33,283
Remaining stockpile volume	56,169			27,307			

*Livehaul source: Area 1

**Suitable Spoil: Surface two feet of 9.38 acres represented by Soil Sample Pits 1, 2, and 3.5N

***Average topsoil cover depth 1.08 ft.

****Subsoil redistribution depth as shown on Drawing 5-76a

Added to stockpile with addition of Area 1 Extended

Source	NL Topsoil	Livehaul Topsoil*	Total Topsoil	NL Subsoil	Livehaul Subsoil	Total Subsoil	
	CY	CY	CY	CY	CY	CY	CY
Stockpile volume added	0	0	0	36,000	0	36,000	
Remaining stockpile volume	56,169			63,307			

BRP 1-12 = 16.25 ACRES

Source	NL Topsoil	Livehaul Topsoil*	Total Topsoil	NL Subsoil	Livehaul Subsoil*	Total Subsoil	
	CY	CY	CY	CY	CY	CY	CY
Stockpile volume utilized	2,968	26,205	29,173	32,919	32,410	65,329	
Suitable spoil**							968
Remaining stockpile volume	53,201			30,388			

*Livehaul source: Area 1 extended

**Suitable Spoil: Surface 6 inches of 9.38 acres represented by Soil Sample Pits 4

***Subsoil redistribution depth as shown on Drawing 5-76a.

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Date: 6/9/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1706074

CASE NARRATIVE

Report ID: S1706074001

Samples Reclaim 10, Reclaim 11, Reclaim 6, and Reclaim 8 were received on June 2, 2017.

Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600/2-78-054 "Field and Laboratory Methods Applicable to Overburden and Mining Soils", 1978
American Society of Agronomy, Number 9, Part 2, 1982
USDA Handbook 60 "Diagnosis and Improvement of Saline and Alkali Soils", 1969
Wyoming Department of Environmental Quality, Land Quality Division, Guideline No. 1, 1984
New Mexico Overburden and Soils Inventory and Handling Guideline, March 1987
State of Utah, Division of Oil, Gas, and Mining: Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, April 1988
Montana Department of State Lands, Reclamation Division: Soil, Overburden, and Regraded Spoil Guidelines, December 1994
State of Nevada Modified Sobek Procedure
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1706074001

Project: Coal Hollow Mine
Date Received: 6/2/2017

Date Reported: 6/9/2017
Work Order: S1706074

Lab ID	Sample ID	Depths Feet	pH s.u.	Saturation %	Electrical Conductivity dS/m	Field Capacity %	Wilting Point %	Organic Matter %	CaCO3 %
S1706074-001	Reclaim 6	0-0.5	7.7	108	5.42	49.6	32.4	1.1	5.0
S1706074-002	Reclaim 6	0.5-1	7.7	110	5.25	49.9	33.4	1.0	3.3
S1706074-003	Reclaim 6	1-2	7.6	101	5.49	51.7	35.0	1.2	4.1
S1706074-004	Reclaim 6	2-3	7.8	121	6.03	52.1	36.2	1.1	3.9
S1706074-005	Reclaim 8	0-0.5	7.9	118	5.44	47.4	33.4	1.1	6.2
S1706074-006	Reclaim 8	0.5-1	7.8	111	5.06	44.6	32.0	1.6	6.1
S1706074-007	Reclaim 8	1-2	7.9	125	5.16	46.6	31.4	1.3	5.5
S1706074-008	Reclaim 8	2-3	7.8	126	5.72	48.5	32.6	1.3	3.8
S1706074-009	Reclaim 10	0-0.5	7.3	179	7.88	78.1	60.1	0.7	0.9
S1706074-010	Reclaim 10	0.5-1	7.7	134	8.57	53.4	36.5	1.2	1.7
S1706074-011	Reclaim 10	1-2	7.9	143	6.72	50.6	35.6	1.4	4.8
S1706074-012	Reclaim 10	2-3	7.9	149	6.44	49.9	34.0	1.4	4.9
S1706074-013	Reclaim 11	0-0.5	8.4	118	5.28	45.1	32.9	1.6	4.1
S1706074-014	Reclaim 11	0.5-1	8.4	186	5.00	54.0	36.3	2.0	4.9
S1706074-015	Reclaim 11	1-2	8.5	192	3.73	56.7	40.7	2.0	3.8
S1706074-016	Reclaim 11	2-3	8.2	216	3.84	72.9	48.4	2.2	4.9

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC
463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1706074001

Project: Coal Hollow Mine
Date Received: 6/2/2017

Date Reported: 6/9/2017
Work Order: S1706074

Lab ID	Sample ID	Depths Feet	Calcium PE meq/L	Magnesium PE meq/L	Potassium PE meq/L	Sodium PE meq/L	SAR
S1706074-001	Reclaim 6	0-0.5	20.2	13.8	0.78	47.4	11.5
S1706074-002	Reclaim 6	0.5-1	18.9	13.9	0.75	45.6	11.3
S1706074-003	Reclaim 6	1-2	21.9	14.1	0.76	48.6	11.5
S1706074-004	Reclaim 6	2-3	19.8	13.9	0.84	57.4	14.0
S1706074-005	Reclaim 8	0-0.5	16.7	10.6	0.77	53.3	14.4
S1706074-006	Reclaim 8	0.5-1	18.1	11.3	0.78	46.9	12.2
S1706074-007	Reclaim 8	1-2	16.2	10.8	0.79	47.2	12.8
S1706074-008	Reclaim 8	2-3	18.9	13.3	0.83	51.9	13.0
S1706074-009	Reclaim 10	0-0.5	21.1	20.1	1.27	85.0	18.7
S1706074-010	Reclaim 10	0.5-1	18.3	18.0	0.93	101	23.7
S1706074-011	Reclaim 10	1-2	18.1	12.5	0.89	70.9	18.1
S1706074-012	Reclaim 10	2-3	20.0	12.3	0.95	65.9	16.4
S1706074-013	Reclaim 11	0-0.5	8.32	4.52	0.72	57.4	22.6
S1706074-014	Reclaim 11	0.5-1	10.8	4.55	0.72	57.8	20.9
S1706074-015	Reclaim 11	1-2	7.94	3.37	0.53	45.0	18.9
S1706074-016	Reclaim 11	2-3	9.36	4.03	0.69	45.6	17.6

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

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Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1706074001

Project: Coal Hollow Mine
Date Received: 6/2/2017

Date Reported: 6/9/2017
Work Order: S1706074

Lab ID	Sample ID	Depths Feet	Sand %	Silt %	Clay %	Texture	Very Fine Sand %	Boron ppm	Selenium ppm	Total Carbon %	TOC %
S1706074-001	Reclaim 6	0-0.5	16.3	38.8	45.0	Clay	9.0	1.3	0.12	1.4	0.8
S1706074-002	Reclaim 6	0.5-1	8.8	47.5	43.8	Silty Clay	3.4	1.2	0.10	0.9	0.5
S1706074-003	Reclaim 6	1-2	13.8	42.5	43.8	Silty Clay	5.8	1.3	<0.04	1.7	1.2
S1706074-004	Reclaim 6	2-3	13.8	40.0	46.3	Silty Clay	5.8	1.4	0.07	0.9	0.4
S1706074-005	Reclaim 8	0-0.5	15.0	38.8	46.3	Clay	8.6	1.0	0.06	1.6	0.8
S1706074-006	Reclaim 8	0.5-1	16.3	41.3	42.5	Silty Clay	9.3	1.0	<0.04	1.5	0.7
S1706074-007	Reclaim 8	1-2	11.3	45.0	43.8	Silty Clay	5.6	1.4	<0.04	1.2	0.6
S1706074-008	Reclaim 8	2-3	11.3	41.3	47.5	Silty Clay	5.6	1.4	0.07	1.1	0.6
S1706074-009	Reclaim 10	0-0.5	11.3	37.5	51.3	Clay	4.5	0.9	<0.04	0.3	0.2
S1706074-010	Reclaim 10	0.5-1	16.3	33.8	50.0	Clay	8.3	0.9	0.06	1.1	0.9
S1706074-011	Reclaim 10	1-2	17.5	37.5	45.0	Clay	10.6	1.3	<0.04	1.5	1.0
S1706074-012	Reclaim 10	2-3	18.8	36.3	45.0	Clay	12.4	1.3	0.05	1.3	0.7
S1706074-013	Reclaim 11	0-0.5	23.8	43.8	32.5	Clay Loam	18.1	1.4	0.10	1.3	0.8
S1706074-014	Reclaim 11	0.5-1	18.8	40.0	41.3	Silty Clay	12.1	2.4	0.09	1.4	0.8
S1706074-015	Reclaim 11	1-2	16.3	41.3	42.5	Silty Clay	10.6	2.1	<0.04	0.9	0.4
S1706074-016	Reclaim 11	2-3	17.5	37.5	45.0	Clay	12.2	2.6	<0.04	1.2	0.6

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1706074001

Project: Coal Hollow Mine
Date Received: 6/2/2017

Date Reported: 6/9/2017
Work Order: S1706074

Lab ID	Sample ID	Depths Feet	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S1706074-001	Reclaim 6	0-0.5	0.84	26.1	49.7	23.7					
S1706074-002	Reclaim 6	0.5-1	0.28	8.80	32.7	23.9					
S1706074-003	Reclaim 6	1-2	1.04	32.4	40.9	8.56					
S1706074-004	Reclaim 6	2-3	0.89	27.7	38.9	11.2					
S1706074-005	Reclaim 8	0-0.5	0.38	12.0	62.4	50.4					
S1706074-006	Reclaim 8	0.5-1	0.33	10.4	61.0	50.6					
S1706074-007	Reclaim 8	1-2	0.48	15.1	54.6	39.5					
S1706074-008	Reclaim 8	2-3	0.47	14.8	38.0	23.2					
S1706074-009	Reclaim 10	0-0.5	1.48	46.4	9.38	-37.0	1.36	0.03	0.09	0.92	8.46
S1706074-010	Reclaim 10	0.5-1	1.23	38.5	17.0	-21.4	1.06	0.12	0.05	3.86	13.2
S1706074-011	Reclaim 10	1-2	0.76	23.6	47.8	24.1					
S1706074-012	Reclaim 10	2-3	0.91	28.4	48.9	20.5					
S1706074-013	Reclaim 11	0-0.5	0.68	21.1	41.1	20.0					
S1706074-014	Reclaim 11	0.5-1	0.69	21.6	49.0	27.4					
S1706074-015	Reclaim 11	1-2	0.68	21.1	38.2	17.2					
S1706074-016	Reclaim 11	2-3	0.62	19.2	49.4	30.2					

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc
1673 Terra Ave, Sheridan, Wyoming, 82801
(307) 672-8945

Soil Analysis Report
Alton Coal Development
463 North 100 West, Suite 1
Cedar City, UT 84721

Project ID: Coal Hollow Mine
Date Received: 6/2/2017

Report ID: S1706074001
Date Reported: 6/9/2017
Work Order: S1706074

Lab ID	Sample ID	Organic Matter %	Sand %	Silt %	Clay %	Very Fine Sand %	Texture	K-factor (t.ac.h/100acft.tf.in)	Structure s	Permeability p	M
S1706074-001	Reclaim 6 (0-0.5)	1.1	16.3	38.8	45.0	9.0	Clay	0.29	3	6	2629.0
S1706074-002	Reclaim 6 (0.5-1)	1.0	8.8	47.5	43.8	3.4	Silty Clay	0.31	3	6	2860.6
S1706074-003	Reclaim 6 (1-2)	1.2	13.8	42.5	43.8	5.8	Silty Clay	0.26	2	6	2714.5
S1706074-004	Reclaim 6 (2-3)	1.1	13.8	40.0	46.3	5.8	Silty Clay	0.24	2	6	2459.5
S1706074-005	Reclaim 8 (0-0.5)	1.1	15.0	38.8	46.3	8.6	Clay	0.25	2	6	2545.4
S1706074-006	Reclaim 8 (0.5-1)	1.6	16.3	41.3	42.5	9.3	Silty Clay	0.27	2	6	2909.5
S1706074-007	Reclaim 8 (1-2)	1.3	11.3	45.0	43.8	5.6	Silty Clay	0.27	2	6	2843.7
S1706074-008	Reclaim 8 (2-3)	1.3	11.3	41.3	47.5	5.6	Silty Clay	0.24	2	6	2462.3
S1706074-009	Reclaim 10 (0-0.5)	0.7	11.3	37.5	51.3	4.5	Clay	0.25	3	6	2045.4
S1706074-010	Reclaim 10 (0.5-1)	1.2	16.3	33.8	50.0	8.3	Clay	0.25	3	6	2105.0
S1706074-011	Reclaim 10 (1-2)	1.4	17.5	37.5	45.0	10.6	Clay	0.28	3	6	2645.5
S1706074-012	Reclaim 10 (2-3)	1.4	18.8	36.3	45.0	12.4	Clay	0.29	3	6	2678.5
S1706074-013	Reclaim 11 (0-0.5)	1.6	23.8	43.8	32.5	18.1	Clay Loam	0.32	2	4	4178.3
S1706074-014	Reclaim 11 (0.5-1)	2.0	18.8	40.0	41.3	12.1	Silty Clay	0.27	2	6	3058.3
S1706074-015	Reclaim 11 (1-2)	2.0	16.3	41.3	42.5	10.6	Silty Clay	0.27	2	6	2984.3
S1706074-016	Reclaim 11 (2-3)	2.2	17.5	37.5	45.0	12.2	Clay	0.25	2	6	2733.5

These Results apply only to the samples tested.

Reviewed by: Karen Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed.
This is a legal document: any misrepresentation may be construed as fraud.

171683

Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Mine	B. Kirk Nicholes	435-691-1551

Report Address	Contact Name	Email	Phone
463 N 100 W Cedar City, Utah 84721	Kirk Nicholes	knicholes@altoncoal.com	435-691-1551

Invoice Address	Purchase Order #	Quote #
Same		

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	% Saturation	pH	EC	SAR	% CaCO3	Texture	Total Organic Carbon	Available Water	K-Factor	Soluble, Na, K, Mg	Acid Base Potential	Soluble Selenium	Available Boron	REMARKS
1	S1706074	6-1-17		Reclaim 6 0"-6"	Soil	1	x	x	x	x	x	x	x	x	x	x	x	x	x	
2				Reclaim 6 6"-12"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
3				Reclaim 6 1'-2'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
4				Reclaim 6 2'-3'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
5				Reclaim 8 0"-6"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
6				Reclaim 8 6"-12"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
7				Reclaim 8 1'-2'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
8				Reclaim 8 2'-3'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
9				Reclaim 10 0"-6"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
10				Reclaim 10 6"-12"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
11				Reclaim 10 1'-2'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
12				Reclaim 10 2'-3'		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
13				Reclaim 11 0"-6"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	
14				Reclaim 11 6"-12"		1	x	x	x	x	x	x	x	x	x	x	x	x	x	

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	B. Kirk Nicholes / B. Kirk Nicholes	6/1/17	1541	Kara Sean	6/2/17	1030

SHIPPING INFO
- ☐ UPS
- ☒ Fed Express
- ☐ US Mail
- ☐ Hand Carried
- ☐ Other _____

MATRIX CODES

Water	WT
Soil	SL
Solid	SD
Filter	FT
Other	OT

TURNAROUND TIMES
Check desired service
- ☐ Standard turnaround
- ☐ RUSH - 5 Working Days
- ☒ URGENT - ~~< 2 Working Days~~

Rush & Urgent Surcharges will be applied

COMPLIANCE INFORMATION
Compliance Monitoring? Y / N
Program (SDWA, NPDES,...)
PWSID / Permit #
Chlorinated? Y / N
Sample Disposal: Lab Client

ADDITIONAL REMARKS

Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed.
This is a legal document: any misrepresentation may be construed as fraud.

141557

Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Mine	B. Kirk Nicholes	435-691-1551

Report Address	Contact Name	Invoice Address	Purchase Order #	Quote #
463 N. 100 W. Cedar City, Utah 84721	Kirk Nicholes	Same		
	Email: knicholes@altoncoal.com			
	Phone: 435-691-1551			

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	% Saturation	pH	EC	SAR	% CaCO3	Texture	Total Organic Carbon	Available Water	K-Factor	Soluble Na, K, Mg	Acid Base Potential	Soluble Selenium	Available Boron	REMARKS
1	S1706074	6-1-17		Reclaim II 1'-2'	Soil	1	X	X	X	X	X	X	X	X	X	X	X	X	X	
2				Reclaim II 2'-3'		1	X	X	X	X	X	X	X	X	X	X	X	X	X	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
				Karen Alcon	6/2/17	1030

SHIPPING INFO	MATRIX CODES		TURNAROUND TIMES	COMPLIANCE INFORMATION		ADDITIONAL REMARKS
☐ UPS	Water	WT	**Check desired service**	Compliance Monitoring?	(Y) / N	
☒ Fed Express	Soil	SL	☐ Standard turnaround	Program (SDWA, NPDES,...)		
☐ US Mail	Solid	SD	☐ **RUSH - 5 Working Days**	PWSID / Permit #		
☐ Hand Carried	Filter	FT	☒ **URGENT** - ~~2 Working Days~~	Chlorinated?	Y / N	
☐ Other _____	Other	OT	***Rush & Urgent Surcharges will be applied***	Sample Disposal: Lab	Client	

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Date: 7/25/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1707211

CASE NARRATIVE

Report ID: S1707211001

Sample Reclaim 9 was received on July 17, 2017.

Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600/2-78-054 "Field and Laboratory Methods Applicable to Overburden and Mining Soils", 1978
American Society of Agronomy, Number 9, Part 2, 1982
USDA Handbook 60 "Diagnosis and Improvement of Saline and Alkali Soils", 1969
Wyoming Department of Environmental Quality, Land Quality Division, Guideline No. 1, 1984
New Mexico Overburden and Soils Inventory and Handling Guideline, March 1987
State of Utah, Division of Oil, Gas, and Mining: Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, April 1988
Montana Department of State Lands, Reclamation Division: Soil, Overburden, and Regraded Spoil Guidelines, December 1994
State of Nevada Modified Sobek Procedure
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1707211001

Project: Coal Hollow Mine
Date Received: 7/17/2017

Date Reported: 7/25/2017
Work Order: S1707211

Lab ID	Sample ID	Depths Inches	pH s.u.	Saturation %	Electrical Conductivity dS/m	Field Capacity %	Wilting Point %	Organic Matter LOI %	CaCO3 %
S1707211-001	Reclaim 9	0-6	8.0	117	6.48	45.3	35.0	1.8	6.0
S1707211-002	Reclaim 9	6-12	7.9	136	6.23	47.3	33.8	1.6	5.0
S1707211-003	Reclaim 9	12-24	7.7	111	5.82	46.1	33.4	2.9	5.7
S1707211-004	Reclaim 9	24-36	7.8	139	6.03	47.7	36.0	2.1	5.1

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1707211001

Project: Coal Hollow Mine

Date Received: 7/17/2017

Date Reported: 7/25/2017

Work Order: S1707211

Lab ID	Sample ID	Depths Inches	Calcium PE meq/L	Magnesium PE meq/L	Potassium PE meq/L	Sodium PE meq/L	SAR
S1707211-001	Reclaim 9	0-6	15.7	9.98	0.76	57.4	16.0
S1707211-002	Reclaim 9	6-12	16.9	10.3	0.84	60.0	16.2
S1707211-003	Reclaim 9	12-24	14.8	10.2	0.74	51.4	14.5
S1707211-004	Reclaim 9	24-36	17.2	11.7	0.89	61.0	16.0

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC
463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1707211001

Project: Coal Hollow Mine
Date Received: 7/17/2017

Date Reported: 7/25/2017
Work Order: S1707211

Lab ID	Sample ID	Depths Inches	Sand %	Silt %	Clay %	Texture	Very Fine Sand %	Boron ppm	Selenium ppm	Total Carbon %	TOC %
S1707211-001	Reclaim 9	0-6	34.0	28.0	38.0	Clay Loam	29.3	0.99	0.02	1.4	0.7
S1707211-002	Reclaim 9	6-12	33.0	29.0	38.0	Clay Loam	28.3	0.90	<0.02	1.2	0.5
S1707211-003	Reclaim 9	12-24	35.0	29.0	36.0	Clay Loam	29.7	1.27	0.03	1.9	1.2
S1707211-004	Reclaim 9	24-36	34.0	27.0	39.0	Clay Loam	28.9	1.20	0.03	1.4	0.8

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

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1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1707211001

Project: Coal Hollow Mine

Date Received: 7/17/2017

Date Reported: 7/25/2017

Work Order: S1707211

Lab ID	Sample ID	Depths Inches	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t
S1707211-001	Reclaim 9	0-6	0.51	16.0	60.2	44.2
S1707211-002	Reclaim 9	6-12	0.64	20.0	50.4	30.4
S1707211-003	Reclaim 9	12-24	0.56	17.4	57.2	39.7
S1707211-004	Reclaim 9	24-36	0.59	18.5	51.1	32.6

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc
1673 Terra Ave, Sheridan, Wyoming, 82801
(307) 672-8945

Soil Analysis Report
Alton Coal Development
463 North 100 West, Suite 1
Cedar City, UT 84721

Project ID: Coal Hollow Mine
Date Received: 7/17/2017

Report ID: S1707211001
Date Reported: 7/25/2017
Work Order: S1707211

Lab ID	Sample ID	Organic Matter %	Sand %	Silt %	Clay %	Very Fine Sand %	Texture	K-factor (t.ac.h/100acft.tf.in)	Structure s	Permeability p	M
S1707211-001	Reclaim 9 (0-6)	1.8	34.0	28.0	38.0	29.3	Clay Loam	0.30	3	4	3552.6
S1707211-002	Reclaim 9 (6-12)	1.6	33.0	29.0	38.0	28.3	Clay Loam	0.30	3	4	3552.6
S1707211-003	Reclaim 9 (12-24)	2.9	35.0	29.0	36.0	29.7	Clay Loam	0.28	3	4	3756.8
S1707211-004	Reclaim 9 (24-36)	2.1	34.0	27.0	39.0	28.9	Clay Loam	0.28	3	4	3409.9

These Results apply only to the samples tested.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed. # WEB

This is a legal document; any misrepresentation may be construed as fraud.

Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Mine	B. Kirk Nicholes	435-681-1551

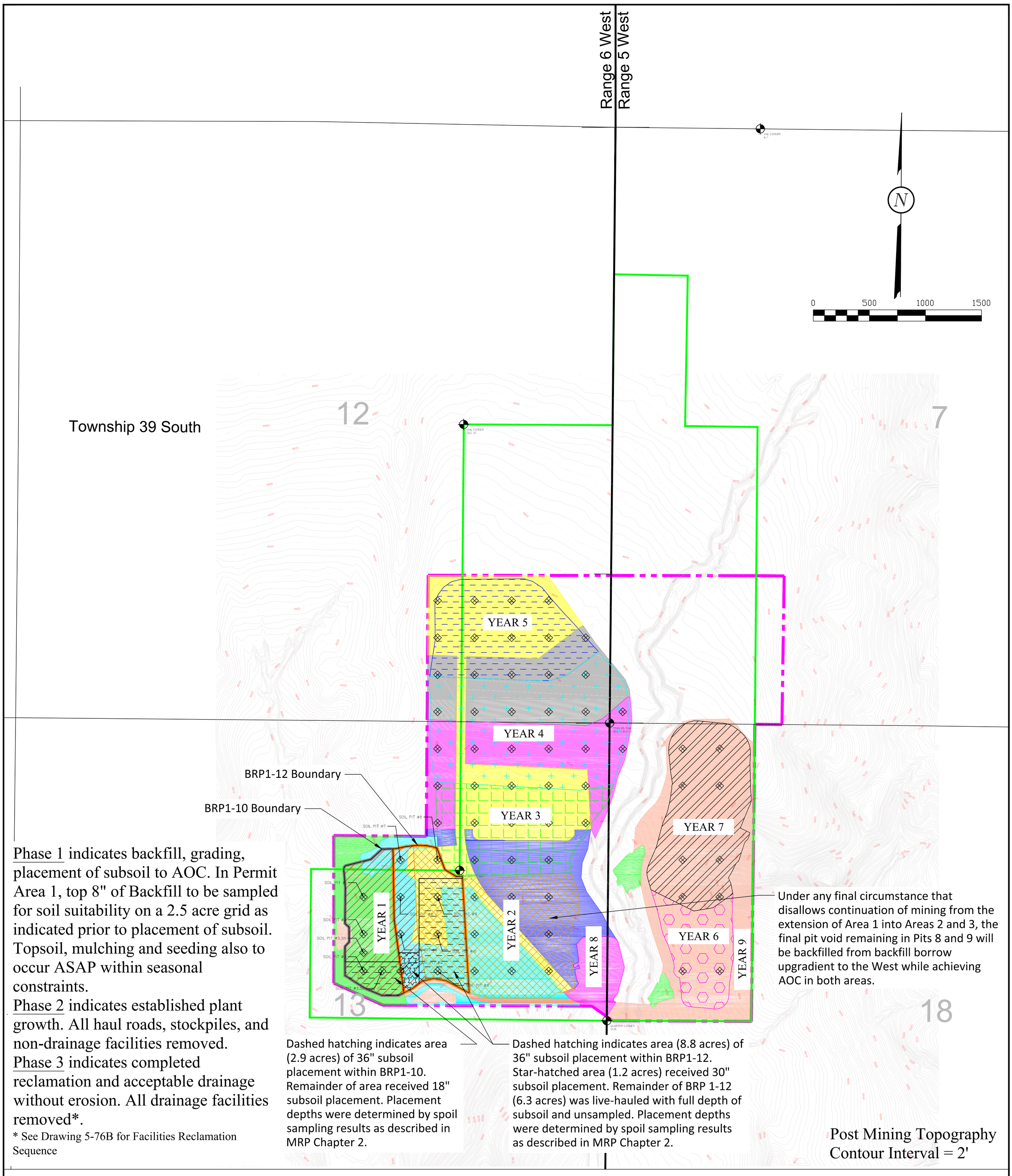
Report Address	Contact Name and Email
463 N 100 W, Suite 1 Cedar City, Utah 84721	Kirk Nicholes Voice FAX knicholes@altoncoal.com
Invoice Address	**Purchase Order #** / **Quote #**
Same	

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	% Saturation	pH	EC	SAR	%CaCO3	Texture	Total Organic Carbon	Available Water	K-Factor	Soluble Na, K, Mg	Acid Base Potential	Soluble Selenium	Available Boron
1	S1707211-001	7/11/2016		Reclaim 9 0" -6"	SL	1	X	X	X	X	X	X	X	X	X	X	X	X	X
2	002	7/11/2016		Reclaim 9 6" - 12"	SL	1	X	X	X	X	X	X	X	X	X	X	X	X	X
3	003	7/11/2016		Reclaim 9 1' - 2'	SL	1	X	X	X	X	X	X	X	X	X	X	X	X	X
4	004	7/11/2016		Reclaim 9 2' - 3'	SL	1	X	X	X	X	X	X	X	X	X	X	X	X	X
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	B. Kirk Nicholes /B. Kirk Nicholes	7/13/17	0736	Karen A Lecce	7/17/17	1030

SHIPPING INFO	MATRIX CODES		TURN AROUND TIMES	COMPLIANCE INFORMATION		ADDITIONAL REMARKS
☐ UPS	Water	WT	**Check desired service**	Compliance Monitoring ?	(Y) / N	
☒ Fed Express	Soil	SL	☐ Standard turnaround	Program (SDWA, NPDES, ...)		
☐ US Mail	Solid	SD	☒ **RUSH** - ~~5 Working Days~~	PWSID / Permit #		
☐ Hand Carried	Trip Blank	TB	☐ **URGENT** - < 2 Working Days	Chlorinated?	Y / N	
☐ Other_____	Other	OT	***Rush & Urgent Surcharges will be applied***	Sample Disposal: Lab ____	Client ____	



Phase 1 indicates backfill, grading, placement of subsoil to AOC. In Permit Area 1, top 8" of Backfill to be sampled for soil suitability on a 2.5 acre grid as indicated prior to placement of subsoil. Topsoil, mulching and seeding also to occur ASAP within seasonal constraints.

Phase 2 indicates established plant growth. All haul roads, stockpiles, and non-drainage facilities removed.

Phase 3 indicates completed reclamation and acceptable drainage without erosion. All drainage facilities removed*.

* See Drawing 5-76B for Facilities Reclamation Sequence

Phase 1 Reclamation:

- Year 1 Reclaim = 17.9 Acres
- Year 2 Reclaim = 34.7 Acres
- Year 3 Reclaim = 24.1 Acres
- Year 4 Reclaim = 39.3 Acres
- Year 5 Reclaim = 24.3 Acres
- Year 6 Reclaim = 11.6 Acres
- Year 7 Reclaim = 26.4 Acres
- Year 8 Reclaim = 00.0 Acres
- Year 9 Reclaim = 00.0 Acres

Total Ph. 1 Reclamation = 178.4 Acres

Phase 2/Surface Mulch & Seeding:

- Year 1 Seeding = 16.2 Acres
- Year 2 Seeding = 25.0 Acres
- Year 3 Seeding = 22.3 Acres
- Year 4 Seeding = 22.2 Acres
- Year 5 Seeding = 23.8 Acres
- Year 6 Seeding = 49.3 Acres
- Year 7 Seeding = 57.8 Acres
- Year 8 Seeding = 5.8 Acres
- Year 9 Seeding = 2.5 Acres

Total Ph. 2 Reclamation = 224.9 Acres

Phase 3 Reclamation to be completed and released within the 10 year timeframe from Phase 1.

LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- BACKFILL SAMPLE PIT

DRAWN BY:	CHECKED BY:
A. CHRISTENSEN	DWG
DRAWING: 5-76A	DATE: 4/16/15
	SCALE: 1" = 400'
JOB NUMBER: 0001	SHEET

REVISIONS

DATE:	BY:
10/3/16	AC
12/14/16	AC
1/5/17	AC
2/2/17	AC
3/31/17	AC
5/4/17	AC
8/2/17	AC

EARTHWORKS RECLAMATION SEQUENCE

NORTH COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: 5-76A

PROFESSIONAL ENGINEER 10230818 ANDREW R. CHRISTENSEN STATE OF UTAH

Alton Coal Development
Coal Hollow Project
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Cedar City, Utah 84721
Phone (435)867-5331
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