Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5311 Fax (435) 867-1192

Date: March 23, 2018

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

Subject: 2017 Coal Mining Annual Report; Alton Coal Development LLC, Coal Hollow Mine, C/025/0005

Dear Mr. Haddock,

Alton Coal Development, LLC is providing the 2017 Coal Mining Annual Report for the Coal Hollow Mine. The completed report and attachments have been electronically submitted by uploading to the Divisions e-Permitting site.

Changes to the MRP associated with this report have also been uploaded to the DOGM's server for review. Upon approval, 2 (two) clean hard copies of the text for insertion into the MRP will be submitted. Please do not hesitate to contact me if you have any questions 435-691-1551.

Sincerely

B. Kirk Nicholes
Resident Agent

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: MRP Annual Report 2017 amendments to permit

Description, Include reason for application and timing required to implement:
Addition of new topsoil analysis

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	Resident Agent	03/23/2018	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 23 day of March, 2018

Notary Public: Wendy Smith, state of Utah.

My commission Expires: 8-21-18
Commission Number: 679017
Address: 377 N Main
City: Cedar City State: UT Zip: 84721

WENDY SMITH
Notary Public
State of Utah
Comm. No. 679017
My Comm. Expires Aug 21, 2018

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

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: MRP Annual Report 2017 amendments to permit

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	(01)Chapter 2, Appendix 2-2 (Cont.), 2016-17 Soil Analysis (Replace Appendix 2-2 (Cont.),
☐ Add	☒ Replace	☐ Remove	(02)Chapter 5, Drawing 5-38
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
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☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	

Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining

Appendix 2-2 (cont.)

2016 & 2017

Soil Analysis Results

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

Date: 9/29/2016

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Reclamation
Lab Order: S1608481

CASE NARRATIVE

Report ID: S1608481001

Samples 16TS-1, 16TS-10, 16TS-13, 16TS-2, 16TS-3, 16TS-4, 16TS-5, 16TS-6, and 16TS-9 were received on August 29, 2016.

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: S1608481001

Project: Coal Hollow Reclamation
Date Received: 8/29/2016

Date Reported: 9/29/2016
Work Order: S1608481

Lab ID	Sample ID	pH s.u.	Potassium ppm	Phosphorus ppm	Nitrate(as N) ppm
S1608481-001	16TS-1	8.1	266	9	16.3
S1608481-002	16TS-2	8.0	273	9	12.6
S1608481-003	16TS-3	8.0	255	9	13.5
S1608481-004	16TS-4	7.9	218	7	16.6
S1608481-005	16TS-5	7.9	230	6	14.5
S1608481-006	16TS-6	8.0	243	7	13.5
S1608481-007	16TS-9	7.8	310	14	58.5
S1608481-008	16TS-10	7.9	269	9	66.5
S1608481-009	16TS-13	7.7	271	17	29.5

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
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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Page 1 of 1
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Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Reclamation	B. Kirk Nicholes	435-691-1551

Report Address	Contact Name	Purchase Order #	Quote #
463 N 100 W Suite 1 Cedar City, Utah 84721	Kirk Nicholes Email: Knicholes@altoncoal.com Phone: 435-691-1551		

Invoice Address: Same

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Available Phosphorus	Soluble Potassium	Nitrate-Nitrogen	Paste pH					REMARKS
1	51608481-001	8/24/16		16TS-1	SL	1	X	X	X	X					
2	-002			16TS-2		1	X	X	X	X					
3	-003			16TS-3		1	X	X	X	X					
4	-004			16TS-4		1	X	X	X	X					
5	-005			16TS-5		1	X	X	X	X					
6	-006			16TS-6		1	X	X	X	X					
7	-007			16TS-9		1	X	X	X	X					
8	-008			16TS-10		1	X	X	X	X					
9	-009			16TS-13		1	X	X	X	X					
10															
11															
12															
13															
14															

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
				Karen A Secor	8/29/16	0850

SHIPPING INFO
- [x] 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
- [x] 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
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Date: 6/21/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1706077

CASE NARRATIVE

Report ID: S1706077001

Samples 17TS-1, 17TS-2, 17TS-3, 17TS-4, 17TS-5, 17TS-6, 17TS-7, and 17TS-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: S1706077001

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

Date Reported: 6/21/2017
Work Order: S1706077

Lab ID	Sample ID	Boron ppm	Potassium ppm	Phosphorus ppm	Selenium ppm	Nitrate(as N) ppm
S1706077-001	17TS-1	0.74	256	10	<0.02	3.9
S1706077-002	17TS-2	0.60	224	10	<0.02	4.4
S1706077-003	17TS-3	0.66	270	8	<0.02	2.7
S1706077-004	17TS-4	0.73	279	10	<0.02	4.7
S1706077-005	17TS-5	0.53	290	11	<0.02	5.9
S1706077-006	17TS-6	0.63	307	22	<0.02	0.8
S1706077-007	17TS-7	0.77	339	11	<0.02	8.8
S1706077-008	17TS-8	0.55	251	8	<0.02	1.9

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
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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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
463 N 100 W Cedar City, Ut 84721	Kirk Nicholes Email: knicholes@altoncoal.com Phone: 435-691-1551	

Purchase Order #	Quote #

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Available phosphorus	Soluble Potassium	Nitrate-Nitrogen	Soluble Selenium	Soluble Boron				REMARKS
1	S1706077-001	5-30-17		17TS-1			X	X	X	X	X				
2	002			17TS-2			X	X	X	X	X				
3	003			17TS-3			X	X	X	X	X				
4	004			17TS-4			X	X	X	X	X				
5	005			17TS-5			X	X	X	X	X				
6	006			17TS-6			X	X	X	X	X				
7	007			17TS-7			X	X	X	X	X				
8	008			17TS-8			X	X	X	X	X				
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	5/31/17	4:44	Karen A Soco	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: 12/6/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1710196

CASE NARRATIVE

Report ID: S1710196001

Samples 17TS-09, 17TS-10, 17TS-11, 17TS-12, 17TS-13, 17TS-14, 17TS-15, 17TS-16 and 17TS-17 were received on October 11, 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: S1710196001

Project: Coal Hollow Mine
Date Received: 10/11/2017

Date Reported: 12/6/2017
Work Order: S1710196

Lab ID	Sample ID	Boron ppm	Potassium ppm	Phosphorus ppm	Selenium ppm	Nitrate(as N) ppm
S1710196-001	17TS-09	0.94	351	9	<0.02	4.7
S1710196-002	17TS-10	0.58	298	8	<0.02	4.8
S1710196-003	17TS-11	0.47	263	11	<0.02	7.5
S1710196-004	17TS-12	0.79	327	8	<0.02	2.4
S1710196-005	17TS-13	0.81	325	8	<0.02	2.0
S1710196-006	17TS-14	0.66	288	9	<0.02	6.5
S1710196-007	17TS-15	0.60	326	8	<0.02	3.2
S1710196-008	17TS-16	0.58	300	6	<0.02	4.6
S1710196-009	17TS-17	0.69	215	7	<0.02	2.0

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

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

- CHAIN OF CUSTODY RECORD -

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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	435-691-1551

Report Address
463 N 100 W, Suite 1
Cedar City, Utah 84721

Contact Name and Email
Kirk Nicholes
Voice
FAX knicholes@altoncoal.com

Invoice Address
Same

Purchase Order #
Quote #

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Boron	Potassium	Phosphorus	Selenium	Nitrate (as N)								
1	51710196-001	10/5/2017		17TS-09	SL	1	X	X	X	X	X								
2	002			17TS-10	SL	1	X	X	X	X	X								
3	003			17TS-11	SL	1	X	X	X	X	X								
4	004			17TS-12	SL	1	X	X	X	X	X								
5	005			17TS-13	SL	1	X	X	X	X	X								
6	006			17TS-14	SL	1	X	X	X	X	X								
7	007			17TS-15	SL	1	X	X	X	X	X								
8	008			17TS-16	SL	1	X	X	X	X	X								
9	009			17TS-17	SL	1	X	X	X	X	X								
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	10/10/17	0842	Karen A Sean	10/11/17	

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	

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

Date: 12/6/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1710196

CASE NARRATIVE

Report ID: S1710196001

Samples 17TS-09, 17TS-10, 17TS-11, 17TS-12, 17TS-13, 17TS-14, 17TS-15, 17TS-16 and 17TS-17 were received on October 11, 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
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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: S1710196001

Project: Coal Hollow Mine
Date Received: 10/11/2017

Date Reported: 12/6/2017
Work Order: S1710196

Lab ID	Sample ID	Boron ppm	Potassium ppm	Phosphorus ppm	Selenium ppm	Nitrate(as N) ppm
S1710196-001	17TS-09	0.94	351	9	<0.02	4.7
S1710196-002	17TS-10	0.58	298	8	<0.02	4.8
S1710196-003	17TS-11	0.47	263	11	<0.02	7.5
S1710196-004	17TS-12	0.79	327	8	<0.02	2.4
S1710196-005	17TS-13	0.81	325	8	<0.02	2.0
S1710196-006	17TS-14	0.66	288	9	<0.02	6.5
S1710196-007	17TS-15	0.60	326	8	<0.02	3.2
S1710196-008	17TS-16	0.58	300	6	<0.02	4.6
S1710196-009	17TS-17	0.69	215	7	<0.02	2.0

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

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	435-691-1551

Report Address
463 N 100 W, Suite 1
Cedar City, Utah 84721

Contact Name and Email
Kirk Nicholes
Voice
FAX knicholes@altoncoal.com

Invoice Address
Same

Purchase Order #
Quote #

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Boron	Potassium	Phosphorus	Selenium	Nitrate (as N)								
1	51710196-001	10/5/2017		17TS-09	SL	1	X	X	X	X	X								
2	002			17TS-10	SL	1	X	X	X	X	X								
3	003			17TS-11	SL	1	X	X	X	X	X								
4	004			17TS-12	SL	1	X	X	X	X	X								
5	005			17TS-13	SL	1	X	X	X	X	X								
6	006			17TS-14	SL	1	X	X	X	X	X								
7	007			17TS-15	SL	1	X	X	X	X	X								
8	008			17TS-16	SL	1	X	X	X	X	X								
9	009			17TS-17	SL	1	X	X	X	X	X								
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	10/10/17	0842	Karen A Sean	10/11/17	

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	

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

Date: 12/12/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1711093

CASE NARRATIVE

Report ID: S1711093001

Samples 17TS-18, 17TS-19, 17TS-20, 17TS-21, 17TS-22, 17TS-23, 17TS-24, 17TS-25, 17TS-26, 17TS-27, 17TS-31, 17TS-32 and 17TS-33 were received on November 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: S1711093001

Project: Coal Hollow Mine
Date Received: 11/2/2017

Date Reported: 12/12/2017
Work Order: S1711093

Lab ID	Sample ID	Boron ppm	Potassium ppm	Phosphorus ppm	Selenium ppm	Nitrate(as N) ppm
S1711093-001	17TS-18	0.39	209	6	<0.02	4.4
S1711093-002	17TS-19	0.49	263	8	<0.02	3.0
S1711093-003	17TS-20	2.34	341	7	0.02	4.6
S1711093-004	17TS-21	0.55	179	7	<0.02	6.1
S1711093-005	17TS-22	0.65	170	4	<0.02	4.5
S1711093-006	17TS-23	1.71	246	5	<0.02	4.8
S1711093-007	17TS-24	0.43	105	4	<0.02	3.1
S1711093-008	17TS-25	0.91	259	5	<0.02	4.3
S1711093-009	17TS-26	1.37	311	6	<0.02	8.0
S1711093-010	17TS-27	0.99	187	4	<0.02	8.7
S1711093-011	17TS-31	0.49	155	4	0.03	4.5
S1711093-012	17TS-32	0.72	138	4	0.05	8.6
S1711093-013	17TS-33	0.82	314	7	<0.02	2.1

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

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

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed. # WEB

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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
463 N 100 W, Suite 1
Cedar City, Utah 84721

Contact Name and Email
Kirk Nicholes
Voice
FAX knicholes@altoncoal.com

Invoice Address
Same

Purchase Order #
Quote #

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Boron	Potassium	Phosphorus	Selenium	Nitrate (as N)								
1	1711093-1	10/27/2017		17TS-18	SL	1	X	X	X	X	X								
2	002			17TS-19	SL	1	X	X	X	X	X								
3	003			17TS-20	SL	1	X	X	X	X	X								
4	004			17TS-21	SL	1	X	X	X	X	X								
5	005			17TS-22	SL	1	X	X	X	X	X								
6	006			17TS-23	SL	1	X	X	X	X	X								
7	007			17TS-24	SL	1	X	X	X	X	X								
8	008			17TS-25	SL	1	X	X	X	X	X								
9	009			17TS-26	SL	1	X	X	X	X	X								
10	010			17TS-27	SL	1	X	X	X	X	X								
11	011			17TS-31	SL	1	X	X	X	X	X								
12	012			17TS-32	SL	1	X	X	X	X	X								
13	013			17TS-33	SL	1	X	X	X	X	X								
14																			

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	B. Kirk Nicholes /B. Kirk Nicholes	10/31/17	9:00am	Karen Alcorn	11/2/17	1100

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	

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

Date: 12/15/2017

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Mine
Lab Order: S1711212

CASE NARRATIVE

Report ID: S1711212001

Samples 17TS-28, 17TS-29 and 17TS-30 were received on November 14, 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: S1711212001

Project: Coal Hollow Mine
Date Received: 11/14/2017

Date Reported: 12/15/2017
Work Order: S1711212

Lab ID	Sample ID	Boron ppm	Potassium ppm	Phosphorus ppm	Selenium ppm	Nitrate(as N) ppm
S1711212-001	17TS-28	0.96	328	7	<0.02	3.8
S1711212-002	17TS-29	1.16	301	7	<0.02	2.7
S1711212-003	17TS-30	0.37	285	7	<0.02	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

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		435-691-1551

Report Address
463 N 100 W, Suite 1
Cedar City, Utah 84721

Contact Name and Email
Kirk Nicholes
Voice
FAX knicholes@altoncoal.com

Invoice Address
Same

Purchase Order #
Quote #

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Boron	Potassium	Phosphorus	Selenium	Nitrate (as N)								
1	5171121251	11/10/2017		17TS-28	SL	1	X	X	X	X	X								
2	002			17TS-29	SL	1	X	X	X	X	X								
3	003			17TS-30	SL	1	X	X	X	X	X								
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
	B. Kirk Nicholes /B. Kirk Nicholes			Kane Alsop	11/14/17	1015

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 ____	

92.6 Acres
Requires Topsoil

3.7 Acres
Requires Topsoil

22.4 Acres
Requires Subsoil

North of Ditch 4

17TS-6
15TS-25
15TS-26
15TS-27
15TS-28
15TS-1
15TS-3
15TS-2
15TS-4
15TS-5
17TS-6
17TS-7
17TS-26
17TS-27
17TS-30
17TS-29
17TS-33
17TS-5
17TS-23
17TS-25
17TS-21
17TS-20
17TS-22
17TS-24
17TS-28
17TS-31
17TS-32
16TS-9
16TS-10
16TS-13
17TS-3
17TS-4
17TS-1
17TS-2
16TS-6
15TS-23
16TS-4
16TS-5
16TS-3
15TS-22
15TS-21
16TS-1
16TS-2
15TS-17
15TS-18
15TS-20
15TS-19
15TS-15
15TS-8
15TS-19
15TS-9
15TS-8
15TS-15
15TS-13
15TS-14
15TS-16
15TS-24

TOPSOIL SAMPLED

North of Ditch	August 2012
15TS-XX	July 2015
15TS-XX	November 2015
15TS-XX	August 2016
15TS-XX	2017

N

0 500 1000 1500

LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- BONDED AREA
- Requires Topsoil
- Requires Subsoil

DRAWN BY:	CHECKED BY:
K NICHOLES	LWJ
DRAWING: FIGURE 1	DATE: 10/17/2015
	SCALE: 1" = 500' Printed on 24"x 36"
JOB NUMBER: 1400	SHEET

REVISIONS

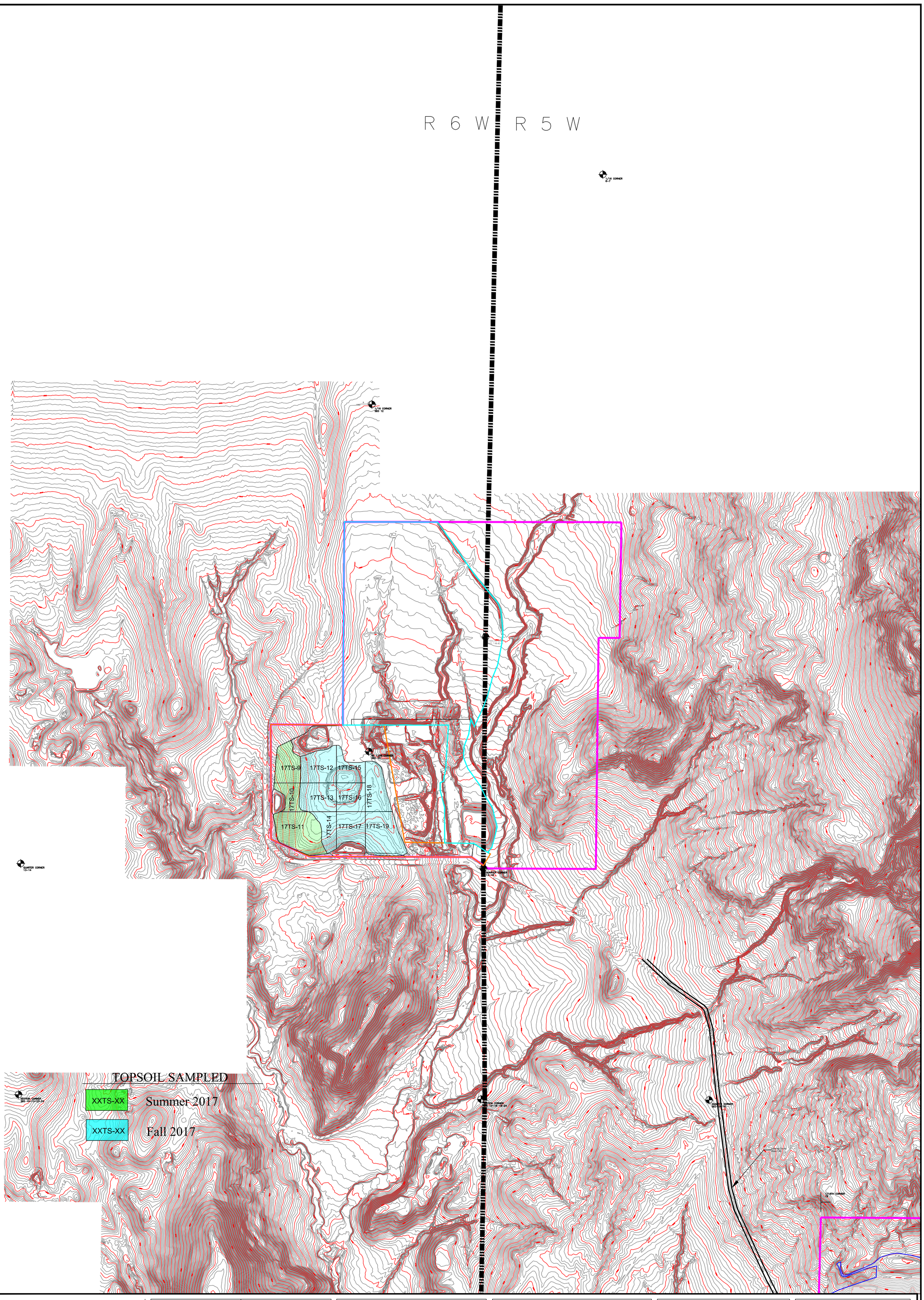
DATE:	BY:
03/21/18	KN

TOPSOIL SAMPLING LOCATIONS

SOUTH PRIVATE LEASE
ALTON, UTAH

FIGURE 1

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
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- BONDED AREA

DRAWN BY:	CHECKED BY:
K NICHOLES	LWJ
DRAWING: FIGURE 2	DATE: 10/17/2015
	SCALE: 1" = 500' Printed on 24"x 36"
JOB NUMBER: 1400	SHEET

REVISIONS

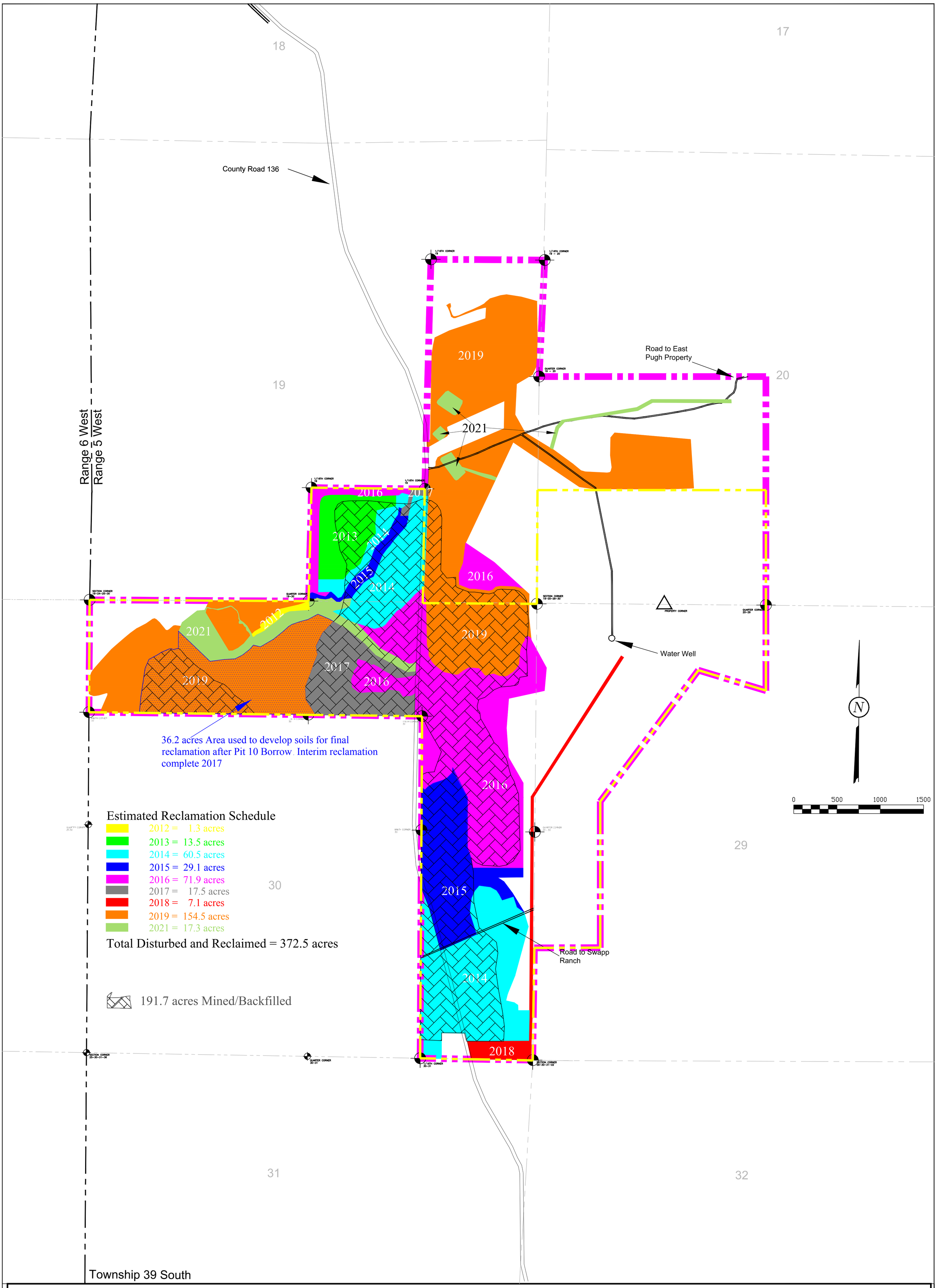
DATE:	BY:
03/21/18	KN

TOPSOIL SAMPLING LOCATIONS

NORTH PRIVATE LEASE
ALTON, UTAH

FIGURE 2

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
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- POSTMINING ROADS

DRAWN BY:	CHECKED BY:
K. NICHOLES	LWJ
DRAWING: 5–38	DATE: 12/18/2014
	SCALE: 1" = 500'
JOB NUMBER: 1400	SHEET

REVISIONS

DATE:	BY:
03/05/14	KN
04/11/16	KN
07/29/16	KN
08/01/16	KN
03/31/17	KN
03/22/18	KN

RECLAMATION SEQUENCE

COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: 5-38

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

ANNUAL REPORT

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	Alton Coal Development, LLC	Mine Name	Coal Hollow Mine
Permit Number	C/025/0005	Permit expiration Date	2020-11-08
Operator Name	Alton Coal Development, LLC	Phone Number	+1 (435) 867-5331
Mailing Address	463 N 100 W Suite 1	Email	knicholes@altoncoal.com
City	Cedar City		
State	Utah	Zip Code	84721

		DOGM File Location or Annual Report Location
Excess Spoil Piles	☒ Required ☐ Not Required	
Refuse Piles	☐ Required ☒ Not Required	
Impoundments	☒ Required ☐ Not Required	
Other:		

OPERATOR COMMENTS

Certification of Pond T1 was completed on Mar . 16,2017. Certified inspection of sediment ponds 1, 1B, 2, 4, 5 and 6 was completed on March 28, 2017. Certified inspection of sediment Pond 3 was completed on Apr. 27, 2017. Certified inspection of sediment ponds 1, 1B, 2, 3, 4, 5 and 6 was completed on Sep. 27, 2017 with Pond 7 completed Sep. 29, 2017. Certified inspection of the SPL excess spoil pile was completed on Mar. 28, Jun. 20, Sep. 27 and Nov. 6, 2017. For the NPL excess spoil pile, March 28, and June 20, 2017. Copies of the inspection reports can be found in ACD's Cedar City office and the Coal Hollow Mine office. Reports were also emailed to the Division each quarter and have been included with this Annual Report.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: TOPSOIL AND SUBSOIL SALVAGE AND FINAL RECLAMATION PLACEMENT
Objective: Monitor topsoil and subsoil salvage by suitability criteria and depth described in Appendix 2-1, Table 4-1.
Frequency: During operations. Sampling regime will be reviewed and updated as necessary. In 2015 monitoring, add-in water soluble selenium analysis to the list of parameters run on replaced topsoil/subsoil.
Status: Long term
Reports: Provide laboratory reports and keep a tally of volumes salvaged, stockpiled and live hauled. In 2015 monitoring, add-in water soluble selenium analysis to the list of parameters run on replaced topsoil/subsoils.
Citation: MRP, Volume 1, Chapter 2, Section 231.300 (topsoil sampling), Section 232.500 (subsoil sampling), and Appendix 2-1, pg. 4-2.

OPERATOR COMMENTS

Topsoil	cyds	Subsoil	cyds
SPL Stk#1	25,289	SPL Stk#1	73,070
SPL Stk#2	71,392	SPL Stk#2	47,690
SPL Stk#3	Consumed in 2013	SPL Stk#3	Consumed in 2014
SPL Stk#4	Consumed in 2014	SPL Stk#4	Consumed in 2017
SPL Stk#5	Consumed in 2015		
SPL Stk#6	Consumed in 2017		
NPL Stk	53,201	NPL Stk	30,388
NPL Livehauled	26,205	NPL Livehauled	32,410

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: PREDATOR CONTROL
Objective: To effectively manage predators and increase the population of birds at the Alton lek.
Frequency: Annually
Status: Ongoing
Reports: Annual summary of work completed to date. Include data, locations, summary and analysis of predator control efforts. Please include any reports from USDA Wildlife Services.
Citation: MRP, Appendix 3-8, pg 14 & 15.

OPERATOR COMMENTS

ACD, through a contract with Wildlife Services effective from April 2017 through April 2018, continued it's predator control program in 2016, Wildlife Services annual summary of work is included in the report titled "Greater Sage-grouse Population Monitoring and Habitat Improvement, Alton-Sink Valley, Utah, February 6, 2018." A copy of the agreement with Wildlife Services has been included with the Annual Report.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: WILDLIFE AWARENESS PROGRAM

Objective: To provide protection for the resident wildlife and minimize impacts (collisions) from vehicles and heavy equipment.

Frequency: Continuous and as needed for new employees throughout the life of the mine.

Status: Ongoing

Reports: Annual, log of employee awareness meetings, road kills for deer, elk, sage grouse and domestic livestock from the mine site to highway 89.

Citation: MRP, Volume 2, Chapter 3, pages 3-29

OPERATOR COMMENTS

Wildlife Awareness training was held on January 28, 2017 for all employees. Instruction was given by Kirk Nicholes. Attendance sheets and slides from the training presentation have been included with this submittal. There were no employee road kills for deer, elk, sage-grouse or domestic livestock from the mine site to highway 89.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: Compensatory Mitigation
Objective: Improve sage-grouse habitat in a 4:1 ratio to disturbance.
Frequency: Mitigation will be implemented prior to disturbance
Status: Ongoing
Reports: Provide plans for 2018 mitigation and disturbance to ensure mitigation is implemented prior to disturbance.
Citation: Appendix 3-8, pg 11 & 12.

OPERATOR COMMENTS

With the completion of the 300 acre Bald Knoll Lop and Scatter Project (WRI Project ID 4414), ADC has completed 891.79 acres of the 1,000 acres of required mitigation for the NPL. Disturbance at the end of 2017 at the NPL was approximately 80 acres, this would yield an excess of approximately 570 acres of mitigation compared to the total disturbance. ADC is currently in discussions with NRCS/DWR for completing (in 2018) the remaining 108.21 acres of required mitigation by providing funds for a rabbit brush treatment project also located near the Bald Knoll.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: RECLAMATION TIMETABLE
Objective: To ensure timely reclamation
Frequency: Map detailing reclamation actives for the year. (Dwg 5-38 and 5-76)
Status: Annually updated.
Reports: Annual summary of work completed to date.
Citation: MRP, Chapter 5, page 5-83 and Ch.3 page 33.

OPERATOR COMMENTS

Drawings 5-38, has been updated and included with this annual report for submission to the MRP. Drawings 5-76A and 5-76B are currently undergoing revision with the NPL Haul road realignment amendment and will be updated to reflect the currant reclamation timetable.

REVIEWER COMMENTS ☐ Did Not Meet Requirements ☐ Met Requirements

Title: SAMPLING FINAL GRADED, TOPSOILED SURFACE
Objective: To ensure a fertile growth medium.
Frequency: One composite sample every 2-5 acres based on variability.
Status: Contemporaneous with reclamation.
Reports: Laboratory analysis of available phosphorus, soluble potassium and nitrate-nitrogen.
Citation: MRP, Volume 1, Chapter 2, Section 231.300 and 243.

OPERATOR COMMENTS

Sampling results for final graded topsoil surface sampled in 2016 have been included in this submission as "Appendix 2-2 (Cont.) 2016-17 Soil Analytical Results"

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: Evaluate Mine Discharges for Impacts to Kanab Creek AVF
Objective: To evaluate discharges that may impact the designated AVF on Kanab Creek.
Frequency: Annually
Status: Ongoing
Reports: An annual finding should be placed in the Annual Report during operation and reclamation of any adverse impacts to the channel, dimunition of water quality and impacts to wildlife
Citation: Coal Hollow Permit, Attachment A, Special Condition #5

OPERATOR COMMENTS

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: SAGE GROUSE MONITORING
Objective: To monitor sage-grouse distribution and bird numbers. Total monitoring effort (GPS transmitters and information from DWR lek counts) will be combined to provide a comprehensive analysis of sage-grouse habitat use and population movement patterns.
Frequency: Annual
Status: Ongoing
Reports: Comprehensive report compiled into annual report.
Citation: MRP, Volume 2, Chapter 3, Appendix 3-8, page 11.

OPERATOR COMMENTS

Data from the monitoring collars is included in the report titled "Greater Sage-grouse Population Monitoring and Habitat Improvement, Alton-Sink Valley, Utah, February 6, 2018." A copy of the fully executed contract has been included with the annual report.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: Dames Lease Annual Vegetation Survey
Objective: To determine if mining or mining related activities are having an impact on the wet meadow habitat
Frequency: Annual
Status: Sampled in 2015
Reports: Annual Summaryiinlcuding species composition, percent cover and plant density
Citation:

OPERATOR COMMENTS

Sampling was completed in 2015 for the anticipated high-wall mining of the 85.88 acre New Dame Lease. There was no high-wall mining that occurred under the 85.88 acre New Dame Lease.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: Subsidence Monitoring
Objective: Company will conduct surface observation walkovers of each of the panels within 60days of the completion of mining. Two additional oberavation walkovers will be made at approximately one year intervals following the initial walkover. The Division will be notified of the results as either no effects or repairs needed.
Frequency: Quarterly inspections
Status: Started underground 4th quarter 2015
Reports: 60 days after completion of panel and two annually
Citation: Chapter 5 pg 5-42 & 5-43

OPERATOR COMMENTS

Underground mining was suspended on June 1, 2016. Mining completed, consist of a distance of approximately 1,200' in the entry, no mining was completed within the permitted panels.

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

Title: Noise Monitoring to Sage-grouse
Objective: Observe if noise changes bird behavior
Frequency: One sound station at each cardinal direction at 100, 500m,, and 1000m from North Lease Mine Site.
Status: Ongoing
Reports: Provide observations and data in the annual conservation and management plan.
Citation: Appendix 3-8, pg 11

OPERATOR COMMENTS

Noise Monitoring preformed at the Coal Hollow Mine is included in the report titled "Greater Sage-grouse Population Monitoring and Habitat Improvement, Alton-Sink Valley, Utah, February 6, 2018."

REVIEWER COMMENTS ☐ Did Not Meet Requirements ☐ Met Requirements

Title: Blasting Certification
Objective: Submit annual **seismograph** calibration certification
Frequency: Annually
Status: Ongoing
Reports: Semigraph annual calibration certificate
Citation: Ch. 5, page 5-33

OPERATOR COMMENTS

Seismograph units were not used in 2017 on blasting preformed at the Coal Hollow Mine, therefore, seismograph calibration certification has not been included.

REVIEWER COMMENTS ☐ Did Not Meet Requirements ☐ Met Requirements

Title: CULTURAL RESOURCE DATA RECOVERY TREATMENT PLAN PLAN

Objective: To direct data recovery efforts and set reporting standards for archaeological sites located within the NPLA

Frequency: Once. Sites must monitored during surface disturbance of the topsoil in the location of the two eligible sites. Public presentation on the mitigation project must be given.

Status: Tier I testing and data recovery occurred in 2016. On-site monitor must be present when disturbing eligible sites. Public presentation on data analysis must be given.

Reports: Documentation of on-site monitor and public presentation of technical report.

Citation: Volume 9 Appendix 4, Archaeological Monitoring & Historic Properties Treatment Plan for the Alton Coal North Private Lease Area, Kane County, Utah

OPERATOR COMMENTS

Sites 42Ka6080 and 42Ka3077 were present within the North Private Lease mining disturbance. The monitoring & historic treatment plan has been executed for both sites. Monitoring during topsoil removal for 42Ka6080 has been completed and the final monitoring report for these efforts are included in the letter date May 2, 2017 titled "Archaeological Monitoring within the Coal Hollow Mine, North Private Lease Area, Kane County, Utah (February-March2017) which has been included with this Annual Report submittal. Site 42Ka3077 will be disturbed with mining in Area 3 of the NPL. Once site 42Ka3077 has topsoil removed and artifacts returned from the lab, a public presentation can be arranged for these sites.

REVIEWER COMMENTS ☐ Did Not Meet Requirements ☐ Met Requirements

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: REVIEW AND EVALUATE THE FACILITIES SPILL PLAN (APPENDIX 7-5)
Objective: To ensure the accuracy of the Facilities Spill Plan and to determine if additional or more effective spill prevention and control technology that is applicable to the facility must be added.
Frequency: At least once every five years.
Status: Last review 2015**,** next review due 2019.
Reports: Completed Plan Review form submitted for incorporation into Appendix B of Appendix 7-5.
Citation: MRP, Volume 7, Chapter 7, Appendix 7-5, Section 2.2 PLAN REVIEW, page 2.

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

REVIEWER COMMENTS

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual Mine/ Reclamation Area Map		☒	☐	☐	☒
Mine Map	CHM SurfaceMineMap,CHM U	☒	☐	☐	☒
		☐	☐	☐	☐
		☐	☐	☐	☐
		☐	☐	☐	☐

REVIEWER COMMENTS ☐ Met Requirements ☐ Did Not Meet Requirements

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	03/28/17
Mine Name :	Coal Hollow Project	Quarter / Year :	1st / 2017
Mine Operator (Permittee) :	Alton Coal Development	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature :	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Most of Main Pile has been removed. Remaining material will be removed during final borrow operation.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : 6918 , ____ , ____
3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. /No. Slope / So. Slope / ____
4. Total storage capacity: 8,600,000 cy Remaining storage capacity 8,211,000 cy Volume placed during year : 0
5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Most of pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

	YES	NO	
Are there cracks or scarps in crest ?		✓	
Is there any detectable sloughing or bulging ?		✓	
Do slope erosion problems exist ?		✓	
Cracks or scarps in slope ?		✓	
Surface movements? (valley bottom, hillsides)		✓	
Erosion of Toe ?		✓	
Water impounded by structure ?		✓	
Are diversion ditches stable?	✓		
Is drainage positive ?	✓		

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes.

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	03/28/17
Mine Name :	Temporary Spoil Pile North Lease	Quarter / Year :	1st / 2017
Mine Operator (Permittee) :	Coal Hollow Project - Alton Coal	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature :	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Pile has been totaly removed for pit reclamation.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : N/A , ____ , ____
3. Vertical Angle of Outslope(s) / Location(s) where measured N/A Not Graded / ____ / ____
4. Total storage capacity: 506,000 cy Remaining storage capacity N/A Volume placed during year : None
5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Vegetation removed. Topsoil and subsoil removed and stored on site. Orange marker placed beneath active pile area.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck. Graded and pushed by dozer. Compaction primarily from large truck.s, and tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES ☐ NO ☑	
Is there any detectable sloughing or bulging ?	YES ☐ NO ☑	
Do slope erosion problems exist ?	YES ☐ NO ☑	
Cracks or scarps in slope ?	YES ☐ NO ☑	
Surface movements? (valley bottom, hillsides)	YES ☐ NO ☑	
Erosion of Toe ?	YES ☐ NO ☑	
Water impounded by structure ?	YES ☐ NO ☑	
Are diversion ditches stable?	YES ☑ NO ☐	
Is drainage positive ?	YES ☑ NO ☐	

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes. Pile has been pushed back into pit per approved plan.

Proctor Determination : 4 Compaction Tests on 6/22/16.
Results range from 90% to 94% Compaction.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**3/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	K. Nicholes / Dan Guy / Joe Kumpe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6912 (1.26')

100% Elevation: 6913 (2.03')

The pond contained approximately 4.5' of water. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. Some sediment buildup is evident at the inlet. The sediment level is approximately at elevation 6910.5.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **3.16 Acre-Feet (Elev. 6920.00')**

Required runoff storage: **2.57 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslooes of embankments, etc.

The water level is approximately at elevation 6915. The pond is not discharging. Embankments are stable and well vegetated. Additional sediment cleaning has been completed since the 4th quarter 2016 inspection. Minor sediment buildup at inlet from recent storms and snowmelt.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes in the structure during the 1st quarter of 2017, include an increase in the depth of the water along with the additional removal of sediment in the pond. There is some sediment accumulation in the inlet due to recent heavy runoff.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 03/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	Kirk Nicholes / Dan Guy / Joe Kumpe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6900.00 (6.00')

100% Elevation: 6902.08 (8.08')

The pond had approximately 4' of water at the time of inspection. The sediment marker is in place. Field observation shows the sediment level to be below the cleanout elevation. The approximate sediment elevation is 6898.5.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6906.45 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)

Required runoff storage: 0.50 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The water level is approximately at elevation 6902.5. There are 2 inlets to the pond - both have been rip-rapped. Both inlets appear stable and are functioning properly, although there is some sediment buildup in both inlets. The outlet is also open and functional.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes to the pond since the last inspection include the increase in the water level and some sediment buildup in the inlets and within the pond.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	**3/28/2017**
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	**Impoundment Name**	Pond 2
	Impoundment Number	Pond 2
	MSHA Mine ID Number	42-02519

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	Kirk Nicholes / Dan Guy / Joe Kumpe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: **6892.1 (3.10')**

100% Elevation: **6893.5 (4.50')**

The pond contained approximately 6.5' of water. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6890.5.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **2.675 Acre-Feet (Elev. 6901.09')**

Required runoff storage: **1.71 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The water level is approximately at elevation 6897.0. The single pond inlet is rip-rapped. A sediment delta at the inlet has been cleaned.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted changes to the pond noted since the last inspection were the increase in the water level and a slight increase in the sediment level.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**3/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	Kirk Nichols / Dan Guy / Joe Kumpe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

Erosion is evident along spillway below dam. Repairs are scheduled. Dam appears stable.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6805.0 (4.0')

100% Elevation: 6807.0 (6.0')

The pond contained approximately 6' of water at the time of the inspection. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. The approximate average sediment elevation is 6803. The pond has been partially cleaned and was being decanted at the time of the inspection.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 12.60 Acre-Feet (Elev. 6811.00')

Required runoff storage: 6.30 Acre-Feet

Decant Elevation: 6808.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6809.0. Some additional cleaning was completed after the 4th quarter 2016 inspection. The pond has received a large amount of water from snowmelt and recent storms. At the time of the inspection, an erosion scarp was evident adjacent to the rip-rapped spillway below the dam. This damage is scheduled for repair as soon as ground conditions allow. The dam appears to be stable and the pond is operating properly.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes since the last inspection include the increase in the water level and the erosion adjacent to the spillway below the pond dam. The erosion is scheduled to be repaired as soon as ground conditions allow. Although the dam appears stable and the pond is operating properly, it has been decided to pospone the annual inspection and certification until after the repairs are completed. This inspection will therefore only serve as a quarterly inspection.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Lang Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 03/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	Kirk Nicholes / Dan Guy / Joe Kumpe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6829.0 (7.0')

100% Elevation: 6830.0 (8.0')

The pond contained approximately 1.0' of water in both cells. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6827.2.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')

Required runoff storage: 3.80 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water elevation is approximately 6828.2. The open-channel spillway is in place and rip-rapped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

There were no significant changes since the last inspection.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**3/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 5	
	Impoundment Number	Pond 5	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**28-Mar-17**
Inspected By	B.K.Nicholes / Dan Guy / Joe Kempe
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6843.0 (3.00')

100% Elevation: 6844.0 (4.00')

The pond had approximately 6.0' of water at the time of inspection . The sediment marker is down and scheduled to be reset; however, field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6840.7.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6848 feet

Emergency Spillway Elevation: 6849 feet

Total volume of pond at Spillway: 1.43 Acre-Feet (Elev. 6848.00')

Required runoff storage: 1.28 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6846.7. The sediment marker will be reset as soon as conditions allow.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only changes to the pond since last inspection are the increase in water level and addition of a small amount of sediment.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 03/28/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 6	
	Impoundment Number	Pond 6	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**28-Mar-17**	
Inspected By	B.K.Nicholes / Dan Guy / Joe Kempe	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.** Sediment Storage Capacity: 60 % Elevation: 6860.0 (5.00') 100% Elevation: 6861.0 (6.00') The pond was dry at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6855.0.
	3. **Principle and emergency spillway elevations.** Principle Spillway Elevation: 6866 feet Emergency Spillway Elevation: 6867 feet Total volume of pond at Spillway: 3.36 Acre-Feet (Elev. 6866.00') Required runoff storage: 1.43 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond was dry at the time of inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

There have been no changes since last inspection.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
3/28/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/28/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**6/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**20-Jun-17**
Inspected By	K. Nicholes / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - None Noted.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.** Sediment Storage Capacity: 60 % Elevation: 6912 (1.26') 100% Elevation: 6913 (2.03') The pond contained approximately 4.0' of water. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. Some sediment buildup is evident at the inlet. The average sediment level is approximately at elevation 6910.5.
	3. **Principle and emergency spillway elevations.** Principle and Emergency Spillway Elevation: **6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)** Total volume of pond at Spillway: **3.16 Acre-Feet (Elev. 6920.00')** Required runoff storage: **2.57 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslooes of embankments, etc.

The water level is approximately at elevation 6916. The pond is not discharging. Embankments appear to be stable. Edges of the pond have been cleaned - sediment remains in the middle.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change in the structure during the 2nd quarter of 2017 is a slight decrease in the water level.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan N. Gray Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 06/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**20-Jun-17**
Inspected By	Kirk Nicholes / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6900.00 (6.00')

100% Elevation: 6902.08 (8.08')

The pond was dry at the time of inspection. The sediment marker is in place. Field observation shows the sediment level to be below the cleanout elevation. The approximate sediment elevation is 6898.5.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6906.45 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)

Required runoff storage: 0.50 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is dry. There are 2 inlets to the pond - both have been rip-rapped. Both inlets appear stable and are functioning properly, although there is some sediment buildup in both inlets. The outlet is also open and functional.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes to the pond since the last inspection include the decrease in the water level and some sediment buildup in the inlets.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Long Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**6/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 2	
	Impoundment Number	Pond 2	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**20-Jun-17**
Inspected By	Kirk Nicholes / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: **6892.1 (3.10')**

100% Elevation: **6893.5 (4.50')**

The pond was dry at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6889.0.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **2.675 Acre-Feet (Elev. 6901.09')**

Required runoff storage: **1.71 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is dry. The single pond inlet is rip-rapped. A sediment delta at the inlet has been previously cleaned.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change to the pond noted since the last inspection was the decrease in the water level.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Long Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**6/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**20-Jun-17**
Inspected By	Kirk Nichols / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

None Noted. Spillway repair completed.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6805.0 (4.0')

100% Elevation: 6807.0 (6.0')

The pond contained approximately 4.5' of water at the time of the inspection. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. The approximate average sediment elevation is 6803.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 12.60 Acre-Feet (Elev. 6811.00')

Required runoff storage: 6.30 Acre-Feet

Decant Elevation: 6808.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6807.5. The emergency spillway has been repaired and certified as of 4/24/17. The sediment delta at the inlet from Ditch 4 has also been cleaned. The pond was being decanted at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change since the last inspection was the increase in the water level. The pond and the dam appear to be stable and are operating properly.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Lang Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 06/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**20-Jun-17**	
Inspected By	Kirk Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6829.0 (7.0')

100% Elevation: 6830.0 (8.0')

The pond contained approximately 1.0' of water in the upper cell and a small puddle in the lower cell. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6827.2.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')

Required runoff storage: 3.80 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water elevation is approximately 6828. The open-channel spillway is in place and rip-rapped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted since the last inspection is the slight decrease in the water level.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: Dan W. Guy Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**6/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 5	
	Impoundment Number	Pond 5	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**20-Jun-17**
Inspected By	B.K.Nicholes / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6843.0 (3.00')

100% Elevation: 6844.0 (4.00')

The pond had approximately 4.5' of water at the time of inspection . The sediment marker is down and scheduled to be reset; however, field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6841.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6848 feet

Emergency Spillway Elevation: 6849 feet

Total volume of pond at Spillway: 1.43 Acre-Feet (Elev. 6848.00')

Required runoff storage: 1.28 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6845.5. The sediment marker will be reset as soon as conditions allow.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only changes to the pond since last inspection are the decrease in water level and addition of a small amount of sediment.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Lang Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 06/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 6	
	Impoundment Number	Pond 6	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**20-Jun-17**	
Inspected By	B.K.Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6860.0 (5.00')

100% Elevation: 6861.0 (6.00')

The pond was dry at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6855.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6866 feet

Emergency Spillway Elevation: 6867 feet

Total volume of pond at Spillway: 3.36 Acre-Feet (Elev. 6866.00')

Required runoff storage: 1.43 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond was dry at the time of inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

There have been no changes since last inspection.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W Long Date: 6/20/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 06/20/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond T1	
	Impoundment Number	Pond T1	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**20-Jun-17**	
Inspected By	B.K.Nicholes / Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6867.6 (3.60')

100% Elevation: 6868.8 (4.80') Maximum Sediment and Pumping Level.

Temporary sediment pond.The pond was dry at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6864.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: N/A - Pond is total containment.

Emergency Spillway Elevation: N/A - Pond is total containment.

Total volume of pond above Pumping Level: 0.812 Acre-Feet (Pumping Elev. 6868.8)

Required runoff storage: 0.810 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond was dry at the time of inspection. Minor settling in pond bottom. Pump system installed as required.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Temporary pond, inspected and certified on 3/16/17. This is the first quarterly inspection.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan H. Lung Date: 6/20/17

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	06/20/17
Mine Name :	Temporary Spoil Pile North Lease	Quarter / Year :	2nd / 2017
Mine Operator (Permittee) :	Coal Hollow Project - Alton Coal	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Pile has been totaly removed for pit reclamation.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : N/A , ____ , ____
3. Vertical Angle of Outslope(s) / Location(s) where measured N/A / Not Graded / ____ / ____
4. Total storage capacity: 506,000 cy Remaining storage capacity N/A Volume placed during year : None
5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Vegetation removed. Topsoil and subsoil removed and stored on site. Orange marker placed beneath active pile area.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck. Graded and pushed by dozer. Compaction primarily from large trucks, and tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES ☐	NO ☑
Is there any detectable sloughing or bulging ?	YES ☐	NO ☑
Do slope erosion problems exist ?	YES ☐	NO ☑
Cracks or scarps in slope ?	YES ☐	NO ☑
Surface movements? (valley bottom, hillsides)	YES ☐	NO ☑
Erosion of Toe ?	YES ☐	NO ☑
Water impounded by structure ?	YES ☐	NO ☑
Are diversion ditches stable?	YES ☑	NO ☐
Is drainage positive ?	YES ☑	NO ☐

Could failure of structure create an impoundment (provide description) ? No

(place P.E. certification below)

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes. Pile has been pushed back into pit per approved plan.

Proctor Determination : 4 Compaction Tests on 6/22/16.
Results range from 90% to 94% Compaction.

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
6/20/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	06/20/17
Mine Name :	Coal Hollow Project	Quarter / Year :	2nd / 2017
Mine Operator (Permittee) :	Alton Coal Development	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature :	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Most of Main Pile has been removed. Remaining material will be removed during final borrow operation.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : 6918 , ____ , ____
3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. /No. Slope / So. Slope / ____
4. Total storage capacity: 8,600,000 cy Remaining storage capacity 8,211,000 cy Volume placed during year : 0
5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Most of pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

	YES	NO	
Are there cracks or scarps in crest ?		✓	
Is there any detectable sloughing or bulging ?		✓	
Do slope erosion problems exist ?		✓	
Cracks or scarps in slope ?		✓	
Surface movements? (valley bottom, hillsides)		✓	
Erosion of Toe ?		✓	
Water impounded by structure ?		✓	
Are diversion ditches stable?	✓		
Is drainage positive ?	✓		

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes.

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
6/20/17
STATE OF UTAH

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas
(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	09/27/17
Mine Name :	Coal Hollow Project	Quarter / Year :	3rd / 2017
Mine Operator (Permittee) :	Alton Coal Development	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature :	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Most of Main Pile has been removed. Remaining material will be removed during final borrow operation. Pile is regraded and subsoiled, ready to seed.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : 6918 , ____ , ____

3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. /No. Slope / So. Slope / ____

4. Total storage capacity: 8,600,000 cy Remaining storage capacity 8,211,000 cy Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Most of pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES ☐ NO ☑	
Is there any detectable sloughing or bulging ?	YES ☐ NO ☑	
Do slope erosion problems exist ?	YES ☐ NO ☑	
Cracks or scarps in slope ?	YES ☐ NO ☑	
Surface movements? (valley bottom, hillsides)	YES ☐ NO ☑	
Erosion of Toe ?	YES ☐ NO ☑	
Water impounded by structure ?	YES ☐ NO ☑	
Are diversion ditches stable?	YES ☑ NO ☐	
Is drainage positive ?	YES ☑ NO ☐	

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes.

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**9/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	K. Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - None Noted.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.** Sediment Storage Capacity: 60 % Elevation: 6912 (1.26') 100% Elevation: 6913 (2.03') The pond contained approximately 8.0' of water. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. Some sediment buildup is evident at the inlet. The average sediment level is approximately at elevation 6911.0.
	3. **Principle and emergency spillway elevations.** Principle and Emergency Spillway Elevation: **6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)** Total volume of pond at Spillway: **3.16 Acre-Feet (Elev. 6920.00')** Required runoff storage: **2.57 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslooes of embankments, etc.

The water level is approximately at elevation 6919. The pond is not discharging. Embankments appear to be stable.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The changes noted in the structure during the 3rd quarter of 2017 include an increase in the water level and a slight increase in the sediment level.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 09/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	Kirk Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6900.00 (6.00')

100% Elevation: 6902.08 (8.08')

The pond had approximately 4' of water at the time of inspection. The sediment marker is in place. Field observation shows the sediment level to be below the cleanout elevation. The approximate sediment elevation is 6898.5.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6906.45 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)

Required runoff storage: 0.50 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The water level is approximately at elevation 6902.5. There are 2 inlets to the pond. rip-rapped. Both inlets are functioning properly, although there has been some cutting on the north inlet, inside the pond, and it should have additional rip-rap added. The outlet is also open and functional.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes to the pond since the last inspection include the increase in the water level and some scouring in the north inlet inside the pond.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**9/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 2	
	Impoundment Number	Pond 2	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	Kirk Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: **6892.1 (3.10')**

100% Elevation: **6893.5 (4.50')**

The pond was damp at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6889.0.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **2.675 Acre-Feet (Elev. 6901.09')**

Required runoff storage: **1.71 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is dry (damp). The single pond inlet is rip-rapped.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change to the pond noted since the last inspection was that the pond was now empty with only a damp bottom.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**9/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	Kirk Nichols / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

None Noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6805.0 (4.0')

100% Elevation: 6807.0 (6.0')

The pond contained approximately 2.0' of water in the upper section at the time of the inspection. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. The approximate average sediment elevation is 6803.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 12.60 Acre-Feet (Elev. 6811.00')

Required runoff storage: 6.30 Acre-Feet

Decant Elevation: 6808.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6805.0 in the upper section only. The D1 Ditch from the reclaimed spoil pile has been re-rapped and flows into the pond as approved.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change since the last inspection was the decrease in the water level. The pond and the dam appear to be stable and are operating properly.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 09/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	Kirk Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6829.0 (7.0')

100% Elevation: 6830.0 (8.0')

The pond contained approximately 1.0' of water in the upper cell and the lower cell was dry. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6827.2.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')

Required runoff storage: 3.80 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water elevation is approximately 6828. The open-channel spillway is in place and rip-rapped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted since the last inspection is that the lower cell is now dry.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**9/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 5	
	Impoundment Number	Pond 5	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**27-Sep-17**
Inspected By	B.K.Nicholes / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6843.0 (3.00')

100% Elevation: 6844.0 (4.00')

The pond had approximately 3.0' of water at the time of inspection . The sediment marker is down and scheduled to be reset; however, field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6841.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6848 feet

Emergency Spillway Elevation: 6849 feet

Total volume of pond at Spillway: 1.43 Acre-Feet (Elev. 6848.00')

Required runoff storage: 1.28 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6844.0. The sediment marker will be reset as soon as conditions allow.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change to the pond noted since the last inspection is the decrease in the water level.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 09/27/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 6	
	Impoundment Number	Pond 6	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**27-Sep-17**	
Inspected By	B.K.Nicholes / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Annual Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6860.0 (5.00')

100% Elevation: 6861.0 (6.00')

The pond was dry at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6855.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6866 feet

Emergency Spillway Elevation: 6867 feet

Total volume of pond at Spillway: 3.36 Acre-Feet (Elev. 6866.00')

Required runoff storage: 1.43 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond was dry at the time of inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

There have been no changes since last inspection.

Certification Statement

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
9/27/17
STATE OF UTAH

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Guy Date: 9/27/17

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	C/025/0005	Inspection Date :	11/06/17
Mine Name :	Coal Hollow Project	Quarter / Year :	4th / 2017
Mine Operator (Permittee) :	Alton Coal Development	Inspector Name :	Dan W. Guy
MSHA ID # :	42-02519	Inspector Signature	Dan W. Guy

Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
Most of Main Pile has been removed. Remaining material will be removed during final borrow operation. Pile is regraded, subsoiled and seeded.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # ____ Elevation of Active Benches : 6918 , ____ , ____

3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. /No. Slope / So. Slope / ____

4. Total storage capacity: 8,600,000 cy Remaining storage capacity 8,211,000 cy Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
No instability noted. Most of pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES ☐ NO ☑	
Is there any detectable sloughing or bulging ?	YES ☐ NO ☑	
Do slope erosion problems exist ?	YES ☐ NO ☑	
Cracks or scarps in slope ?	YES ☐ NO ☑	
Surface movements? (valley bottom, hillsides)	YES ☐ NO ☑	
Erosion of Toe ?	YES ☐ NO ☑	
Water impounded by structure ?	YES ☐ NO ☑	
Are diversion ditches stable?	YES ☑ NO ☐	
Is drainage positive ?	YES ☑ NO ☐	

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes.

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability. structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

REGISTERED PROFESSIONAL ENGINEER
No. 154168
DAN W. GUY
11/06/17
STATE OF UTAH

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**11/6/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1	
	Impoundment Number	Pond 1	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - None Noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6912 (1.26')

100% Elevation: 6913 (2.03')

The pond contained approximately 7.0' of water. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. Some sediment buildup is evident at the inlet. The average sediment level is approximately at elevation 6911.0.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **3.16 Acre-Feet (Elev. 6920.00')**

Required runoff storage: **2.57 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslooes of embankments, etc.

The water level is approximately at elevation 6918. The pond is not discharging. Embankments appear to be stable.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted in the structure during the 4th quarter of 2017 was a slight decrease in the water level.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Long Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 11/06/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 1B	
	Impoundment Number	Pond 1B	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6900.00 (6.00')

100% Elevation: 6902.08 (8.08')

The pond was dry at the time of inspection. The sediment marker is in place. Field observation shows the sediment level to be above the cleanout elevation. The approximate sediment elevation is 6902.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6906.45 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)

Required runoff storage: 0.50 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is dry. There are 2 inlets to the pond - both have been previously rip-rapped. Both inlets are functioning properly, although there has been some cutting on the north inlet, inside the pond, and it should have additional rip-rap added. The outlet is also open and functional. The sediment level is very close to the 100% elevation, and the pond is scheduled to be cleaned as soon as conditions allow.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The noted changes to the pond since the last inspection include the decrease in the water level and increase in the sediment level.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan W. Long Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**11/6/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 2	
	Impoundment Number	Pond 2	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**6-Nov-17**
Inspected By	Andrew Christensen / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: **6892.1 (3.10')**

100% Elevation: **6893.5 (4.50')**

The pond was dry at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6889.0.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: **6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways)**

Total volume of pond at Spillway: **2.675 Acre-Feet (Elev. 6901.09')**

Required runoff storage: **1.71 Acre-Feet**

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

The pond is dry. The single pond inlet is rip-rapped.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change to the pond noted since the last inspection was that the pond was now completely dry.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Long Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**11/6/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 3	
	Impoundment Number	Pond 3	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION	
Inspection Date	**6-Nov-17**
Inspected By	Andrew Christensen / Dan Guy
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

None Noted.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6805.0 (4.0')

100% Elevation: 6807.0 (6.0')

The pond contained approximately 3.0' of water in the upper section at the time of the inspection. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. The approximate average sediment elevation is 6803.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 12.60 Acre-Feet (Elev. 6811.00')

Required runoff storage: 6.30 Acre-Feet

Decant Elevation: 6808.0

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water level is approximately at elevation 6806.0. The D1 Ditch from the reclaimed spoil pile has been rip-rapped and flows into the pond as approved.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change since the last inspection was a slight increase in the overall water level. The pond and the dam appear to be stable and are operating properly.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan N. Guy Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 11/06/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6829.0 (7.0')

100% Elevation: 6830.0 (8.0')

The pond contained less than 1.0' of water in the upper cell and the lower cell was dry. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6827.2.

3. **Principle and emergency spillway elevations.**

Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)

Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')

Required runoff storage: 3.80 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The average water elevation is approximately 6828. The open-channel spillway is in place and rip-rapped. No discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted since the last inspection is a slight decrease in the water level in the upper cell.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: Dan W. Guy Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**11/06/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 5	
	Impoundment Number	Pond 5	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6843.0 (3.00')

100% Elevation: 6844.0 (4.00')

The pond had approximately 2.5' of water at the time of inspection . The sediment marker has been reset, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6841.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6848 feet

Emergency Spillway Elevation: 6849 feet

Total volume of pond at Spillway: 1.43 Acre-Feet (Elev. 6848.00')

Required runoff storage: 1.28 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6843.5. The sediment marker has been reset.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only changes to the pond noted since the last inspection is the slight decrease in the water level, and the sediment marker has been reset.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Long Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 11/06/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 6	
	Impoundment Number	Pond 6	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.**

Sediment Storage Capacity:

60 % Elevation: 6860.0 (5.00')

100% Elevation: 6861.0 (6.00')

The pond was dry at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6855.0.

3. **Principle and emergency spillway elevations.**

Principle Spillway Elevation: 6866 feet

Emergency Spillway Elevation: 6867 feet

Total volume of pond at Spillway: 3.36 Acre-Feet (Elev. 6866.00')

Required runoff storage: 1.43 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond was dry at the time of inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

There have been no changes since last inspection.

Certification Statement	I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.
	By:
	(Full Name and Title)
	Signature: Dan W. Long Date: 11/06/17

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	**Report Date 11/06/2017**	
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	**Impoundment Name**	Pond 7	
	Impoundment Number	Pond 7	
	MSHA Mine ID Number	42-02519	

IMPOUNDMENT INSPECTION		
Inspection Date	**6-Nov-17**	
Inspected By	Andrew Christensen / Dan Guy	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)		Quarterly Inspection.

1. **Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. **Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.** Sediment Storage Capacity: 60 % Elevation: 6843.79 (4.79') 100% Elevation: 6844.91 (5.91') There was approximately 1' of water in the south 1/2 of the pond at the time of inspection . The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6839.0.
	3. **Principle and emergency spillway elevations.** Principle Spillway Elevation: 6848.00 Emergency Spillway Elevation: 6849.00 Total volume of pond at principle spillway: 12.97 Acre-Feet (Elev. 6848.00) Required runoff storage: 7.11 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond contained less than 1.0' of water at the time of inspection. Average water elevation is approximately 6839.5.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

New pond - As-Built certified on 9/29/17. This is the first quarterly inspection.

Certification Statement

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations: and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

(Full Name and Title)

Signature: Dan H. Gray Date: 11/06/17

To Whom it May Concern:

I, Andrew R. Christensen, Registered Professional Engineer, State of Utah No. 10230818, have completed (at a minimum) weekly construction inspections on the Alton Coal Development, LLC (ACD), North Private Lease Sediment Pond 7 from the outset of construction on 9/12/2017. The as-constructed survey data and stage-volume information was completed on 9/29/2017. I have completed the as-constructed Pond 7 Drawing 5-69AB and certified it as of that date.

It is noted that Pond 7 has been approved under the UPDES Discharge Permit to accept both storm surface runoff and mine affected water. At the as-constructed dimensions, Pond 7 has the capacity to contain the required 7.11 acre-ft from the 10 year – 24 hour storm as well as a minimum 4.80 acre-ft of mine affected water above the calculated 3 year sediment level (shown in Appendix 5-12 of the ACD MRP) up to the point of discharge.

I hereby certify that the above noted inspections of Sediment Pond 7 were completed by me and finalized on the date specified below.

Andrew R. Christensen

September 29, 2017

To Whom it May Concern:

I, Andrew R. Christensen, Registered Professional Engineer, State of Utah No. 10230818, have completed (at a minimum) weekly construction inspections on the Alton Coal Development, LLC, North Private Lease Sediment Pond T1 from the outset of construction on 2/6/2017. The as-constructed survey data and stage-volume information was completed on 3/16/2017. I have completed the as-constructed Pond T1 Drawing 5-71A-AB and certified it as of that date.

It should also be noted that since this pond is temporary in nature and design, it will be treated as a total containment structure without designed spillways. Discharge will only be allowed via the designed pump-and-pipeline dewatering system to Pond 6. The 100% sediment level on the installed sediment markers will also serve as the maximum water level and required pumping elevation. At this level, the pond will still have adequate capacity to contain the runoff from the 10 year – 24 hour storm, as required.

I hereby certify that the above noted inspections of Sediment Pond T1 were completed by me and finalized on the date specified below.

Andrew R. Christensen

March 16, 2017

PROFESSIONAL ENGINEER
10230818
ANDREW R.
CHRISTENSEN
3/16/2017
STATE OF UTAH

Cooperative Agreement

BETWEEN
ALTON COAL DEVELOPMENT
AND
UTAH DEPARTMENT OF NATURAL RESOURCES,
DIVISION OF WILDLIFE RESOURCES

Pursuant to Utah Code §23-22-1, this COOPERATIVE AGREEMENT is made and entered into upon the date of the last signature to this document, between the State of Utah, Department of Natural Resources, Division of Wildlife Resources (UDWR) and Alton Coal Development for completion of the *Bald Knoll Lop and Scatter (Alton Coal Mine) #4414* proposed through the Utah Partners for Conservation and Development (UPCD) Watershed Restoration Initiative (WRI).

The Parties agree as follows:

1. UDWR will:
    a. Implement the lop and scatter for the completion of the *Bald Knoll Lop and Scatter (Alton Coal Mine) #4414*.
    b. Assist with project entering of completion reports as needed.

2. ALTON COAL DEVELOPMENT will:
    a. Reimburse UDWR up to $24,864.00 for the completion of the *Bald Knoll Lop and Scatter (Alton Coal Mine) #4414*.
    b. Will work with the project managers to submit a completion report in the WRI online database within 3 months of completion of project or by August 31, 2018.

All provisions of Attachment A and Attachment B are incorporated into and become a part of this Cooperative Agreement. If provisions of the Cooperative Agreement conflict, the order of precedence shall be (i) Attachment A; (ii) Cooperative Agreement signature page; and (iii) Attachment B.

SIGNATURES ON FOLLOWING PAGE

Agreed to by:

Alton Coal Development	Date 12/14/2017
Division of Wildlife Resources/Director	Date
Division of Wildlife Resources/Financial Manager	Date
State of Utah/Division of Finance	Date

ATTACHMENT A – STANDARD TERMS AND CONDITIONS

1. **INVOICING:** The Parties agree to share records with one another detailing expenditures pursuant to the Cooperative Agreement on a quarterly basis, and to reconcile all accounts no later than June 30 annually. The Cooperative Agreement number shall be listed on all invoices, freight tickets, and correspondence.

2. **LAWS AND REGULATIONS:** Each Party shall responsible for ensuring their individual compliance with all applicable federal and state constitutions, laws, rules, codes, orders, and regulations, including applicable licensure, certification, and permitting requirements.

3. **CONFLICT OF INTEREST:** PARTNER represents that none of its officers or employees are officers or employees of UDWR or the State of Utah, unless prior written disclosure has been made to UDWR.

4. **RECORDS ADMINISTRATION:** PARTNER shall maintain all records necessary to properly account for PARTNER's performance and the payments it receives from UDWR pursuant to this Cooperative Agreement. These records shall be retained by PARTNER for at least six (6) years after final payment, or until all audits initiated within the six (6) years have been completed, whichever is later. PARTNER agrees to allow, at no additional cost, the State of Utah, federal auditors, and UDWR staff, access to all such records.

5. **TERMINATION:** This Cooperative Agreement may be terminated with cause by UDWR in advance of the specified expiration date by providing prior written notice to PARTNER. PARTNER will be given ten (10) days after written notification to correct and cease the violations, after which this Cooperative Agreement may be terminated for cause immediately. This Cooperative Agreement may also be terminated without cause (for convenience), in advance of the specified expiration date, by either party, upon sixty (60) days written termination notice being given to the other party. UDWR and PARTNER may terminate this Cooperative Agreement, in whole or in part, at any time, by mutual agreement in writing. Upon termination of the Cooperative Agreement, PARTNER shall be compensated for eligible services properly performed up to the effective date of the notice of termination. In no circumstance shall UDWR be responsible for any costs for services unsatisfactorily performed, outside of the scope of the project proposal, performed after the effective date of the notice of termination, or for costs exceeding the reimbursable total identified herein.

6. **GOVERNING LAW AND VENUE:** This Cooperative Agreement shall be governed by the laws, rules, and regulations of the State of Utah. Any action or proceeding arising from this Cooperative Agreement shall be brought in a court of competent jurisdiction in the State of Utah. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.

7. **DEBARMENT:** PARTNER certifies that it is not presently nor has ever been debarred,

suspended, or proposed for debarment by any governmental department or agency, whether international, national, state, or local. PARTNER must notify the UDWR within thirty (30) days if debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in any contract by any governmental entity during the Cooperative Agreement term.

8. **LIABILITY:** Each Party shall be responsible for any claims, losses, suits, actions, damages, and costs of every name and description arising out of their own performance under this Cooperative Agreement. If one or more parties are found negligent, they each shall bear their proportionate share of any allocated fault or responsibility. Nothing herein shall be construed as waiving any immunity, the monetary damage limitations, or any other provision set forth in the Utah Governmental Immunity Act, Utah Code §§ 63G-7-101 through 63G-7-904.

ATTACHMENT B – PROJECT PROPOSAL

ACCEPTANCE OF THIS PURCHASE ORDER BINDS CONTRACTOR TO ALL THESE TERMS AND CONDITIONS AND ALL THE TERMS, CONDITIONS, AND PROVISIONS INCLUDED IN THE SOLICITATION THE DIVISION OF PURCHASING OFFERED RELATING TO THIS PURCHASE ORDER.

PURCHASE ORDER TERMS AND CONDITIONS FOR SERVICES

This is for a Purchase Order of services (including professional services), meaning the furnishing of labor, time, or effort by a contractor.

1. **DEFINITIONS:** The following terms shall have the meanings set forth below:
   a) "**Confidential Information**" means information that is deemed as confidential under applicable state and federal laws, including personal information. The State Entity reserves the right to identify, during and after this Purchase Order, additional reasonable types of categories of information that must be kept confidential under federal and state laws.
   b) "**Purchase Order**" means the Purchase Order including these terms and conditions.
   c) "**Contractor**" means the individual or entity delivering the Services identified in this Purchase Order. The term "Contractor" shall include Contractor's agents, officers, employees, and partners.
   d) "**Services**" means the furnishing of labor, time, or effort by Contractor pursuant to this Purchase Order. Services include, but are not limited to, all of the deliverable(s) that result from Contractor performing the Services pursuant to this Purchase Order. Services include those professional services identified in Section 63G-6a-103 of the Utah Procurement Code.
   e) "**Proposal**" means Contractor's response to the State Entity's Solicitation.
   f) "**Solicitation**" means the documents used by the State Entity to obtain Contractor's Proposal.
   g) "**State Entity**" means the department, division, office, bureau, agency, or other organization identified on the Purchase Order.
   h) "**State of Utah**" means the State of Utah, in its entirety, including its institutions, agencies, departments, divisions, authorities, instrumentalities, boards, commissions, elected or appointed officers, employees, agents, and authorized volunteers.
   i) "**Subcontractors**" means subcontractors or subconsultants at any tier that are under the direct or indirect control or responsibility of the Contractor, and includes all independent contractors, agents, employees, authorized resellers, or anyone else for whom the Contractor may be liable at any tier, including a person or entity that is, or will be, providing or performing an essential aspect of this Purchase Order, including Contractor's manufacturers, distributors, and suppliers.

2. **GOVERNING LAW AND VENUE:** This Purchase Order shall be governed by the laws, rules, and regulations of the State of Utah. Any action or proceeding arising from this Purchase Order shall be brought in a court of competent jurisdiction in the State of Utah. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.

3. **LAWS AND REGULATIONS:** At all times during this Contract, Contractor and all Procurement Items delivered and/or performed under this Contract will comply with all applicable federal and state constitutions, laws, rules, codes, orders, and regulations, including applicable licensure and certification requirements. If this Contract is funded by federal funds, either in whole or in part, then any federal regulation related to the federal funding, including CFR Appendix II to Part 200, will supersede this Attachment A.

4. **RECORDS ADMINISTRATION:** Contractor shall maintain or supervise the maintenance of all records necessary to properly account for Contractor's performance and the payments made by the State Entity to Contractor under this Purchase Order. These records shall be retained by Contractor for at least six (6) years after final payment, or until all audits initiated within the six (6) years have been completed, whichever is later. Contractor agrees to allow, at no additional cost, State of Utah and federal auditors, and State Entity staff, access to all such records.

5. **CERTIFY REGISTRATION AND USE OF EMPLOYMENT "STATUS VERIFICATION SYSTEM":** The Status Verification System, also referred to as "E-verify", only applies to contracts issued through a Request for Proposal process and to sole sources that are included within a Request for Proposal.

   1. Contractor certifies as to its own entity, under penalty of perjury, that Contractor has registered and is participating in the Status Verification System to verify the work eligibility status of Contractor's new employees that are employed in the State of Utah in accordance with applicable immigration laws.

   2. Contractor shall require that each of its Subcontractors certify by affidavit, as to their own entity, under penalty of perjury, that each Subcontractor has registered and is participating in the Status Verification System to verify the work eligibility status of Subcontractor's new employees that are employed in the State of Utah in accordance with applicable immigration laws.

   3. Contractor's failure to comply with this section will be considered a material breach of this Purchase Order.

6. **CONFLICT OF INTEREST:** Contractor represents that none of its officers or employees are officers or employees of the State Entity or the State of Utah, unless disclosure has been made to the State Entity.

7. **INDEPENDENT CONTRACTOR:** Contractor's legal status is that of an independent contractor, and in no manner shall Contractor be deemed an employee or agent of the State Entity or the State of Utah, and therefore is not entitled to any of the benefits associated with such employment. Contractor, as an independent contractor, shall have no authorization, express or implied, to bind the State Entity or the State of Utah to any agreements, settlements, liabilities, or understandings whatsoever, and agrees not to perform any acts as an agent for the State Entity or the State of Utah. Contractor shall remain responsible for all applicable federal, state, and local taxes, and all FICA contributions.

8. **INDEMNITY:** Contractor shall be fully liable for the actions of its agents, employees, officers, partners, and Subcontractors, and shall fully indemnify, defend, and save harmless the State Entity and the State of Utah from all claims, losses, suits, actions, damages, and costs of every name and description arising out of Contractor's performance of this Purchase Order caused by any intentional act or negligence of Contractor, its agents, employees, officers, partners, or Subcontractors, without limitation; provided, however, that the Contractor shall not indemnify for that portion of any claim, loss, or damage arising hereunder due to the sole

fault of the State Entity. The parties agree that if there are any limitations of the Contractor's liability, including a limitation of liability clause for anyone for whom the Contractor is responsible, such limitations of liability will not apply to injuries to persons, including death, or to damages to property.

9. **EMPLOYMENT PRACTICES:** Contractor agrees to abide by the following employment laws: (i)Title VI and VII of the Civil Rights Act of 1964 (42 U.S.C. 2000e), which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services, on the basis of race, religion, color, or national origin; (ii) Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; (iii) 45 CFR 90, which prohibits discrimination on the basis of age; (iv) Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990, which prohibits discrimination on the basis of disabilities; and (v) Utah's Executive Order, dated December 13, 2006, which prohibits unlawful harassment in the workplace. Contractor further agrees to abide by any other laws, regulations, or orders that prohibit the discrimination of any kind by any of Contractor's employees.

10. **AMENDMENTS:** This Purchase Order may only be amended by the mutual written agreement of the parties, which amendment will be attached to this Purchase Order. Automatic renewals will not apply to this Purchase Order.

11. **DEBARMENT:** Contractor certifies that it is not presently nor has ever been debarred, suspended, or proposed for debarment by any governmental department or agency, whether international, national, state, or local. Contractor must notify the State Entity within thirty (30) days if debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in any contract by any governmental entity during this Purchase Order.

12. **TERMINATION:** This Purchase Order may be terminated for convenience by the State Entity, in advance of the specified expiration date, upon five (5) day written notice given to the Contractor. If a written notice is delivered under this section, the State Entity will reimburse Contractor for the Services properly performed until the effective date of said notice. The State Entity will not be liable for any performance, commitments, penalties, or liquidated damages that accrue after the effective date of said written notice. Such compensation will be Contractor's exclusive remedy in the case of termination for convenience and will be available to Contractor only after Contractor has submitted a proper invoice. On termination of this Purchase Order, all accounts and payments will be processed according to the financial arrangements set forth herein for approved Services performed prior to date of termination.

13. **CONTRACTOR'S INSURANCE RESPONSIBILITY**. The Contractor shall maintain the following insurance coverage:
    a. Workers' compensation insurance during the term of this Contract for all its employees and any Subcontractor employees related to this Contract. Workers' compensation insurance shall cover full liability under the workers' compensation laws of the jurisdiction in which the work is performed at the statutory limits required by said jurisdiction.
    b. Commercial general liability [CGL] insurance from an insurance company authorized to do business in the State of Utah. The limits of the CGL insurance policy will be no less than one million dollars ($1,000,000.00) per person per occurrence and two million ($2,000,000.00) aggregate per occurrence.
    c. Commercial automobile liability [CAL] insurance from an insurance company authorized to do business in the State of Utah. The CAL insurance policy must cover bodily injury and property damage liability and be applicable to all vehicles used in your performance of Services under this Agreement whether owned, non-owned, leased, or hired. The minimum liability limit must be $1 million per occurrence, combined single limit. The CAL insurance policy is required if Contractor will use a vehicle in the performance of this Contract.
    d. Other insurance policies required in the Solicitation.

    Certificate of Insurance, showing up-to-date coverage, shall be on file in the State Entity before the Contract may commence.

    The State reserves the right to require higher or lower insurance limits where warranted. Failure to provide proof of insurance as required will be deemed a material breach of this Contract. Contractor's failure to maintain this insurance requirement for the term of this Contract will be grounds for immediate termination of this Contract.

14. **RESERVED.**

15. **SUSPENSION OF WORK:** Should circumstances arise which would cause the State Entity to suspend Contractor's responsibilities under this Purchase Order, but not terminate this Purchase Order, this will be done by written notice. Contractor's responsibilities may be reinstated upon advance formal written notice from the State Entity.

16. **SALES TAX EXEMPTION:** The Services under this Purchase Order will be paid for from the State Entity's funds and used in the exercise of the State Entity's essential functions as a State of Utah entity. Upon request, the State Entity will provide Contractor with its sales tax exemption number. It is Contractor's responsibility to request the State Entity's sales tax exemption number. It also is Contractor's sole responsibility to ascertain whether any tax deduction or benefits apply to any aspect of this Purchase Order.

17. **PUBLIC INFORMATION:** Contractor agrees that this Purchase Order, related purchase orders, related pricing documents, and invoices will be public documents, and may be available for public and private distribution in accordance with the State of Utah's Government Records Access and Management Act (GRAMA). Contractor gives the State Entity and the State of Utah express permission to make copies of this Purchase Order, related sales orders, related pricing documents, and invoices in accordance with GRAMA. Except for sections identified in writing and expressly approved by the State of Utah Division of Purchasing and General Services, Contractor also agrees that the Contractor's Proposal to the Solicitation will be a public document, and copies may be given to the public as permitted under GRAMA. The State Entity and the State of Utah are not obligated to inform Contractor of any GRAMA requests for disclosure of this Purchase Order, related purchase orders, related pricing documents, or

invoices.

18. **DELIVERY:** All deliveries under this Purchase Order will be F.O.B. destination with all transportation and handling charges paid for by Contractor. Responsibility and liability for loss or damage will remain with Contractor until final inspection and acceptance when responsibility will pass to the State Entity, except as to latent defects or fraud.

19. **ACCEPTANCE AND REJECTION:** The State Entity shall have thirty (30) days after delivery of the Services to perform an inspection of the Services to determine whether the Services conform to the standards specified in the Solicitation and this Purchase Order prior to acceptance of the Services by the State Entity.

    If Contractor delivers nonconforming Services, the State Entity may, at its option and at Contractor's expense: (i) return the Services for a full refund; (ii) require Contractor to promptly correct or reperform the nonconforming Services subject to the terms of this Contract; or (iii) obtain replacement Services from another source, subject to Contractor being responsible for any cover costs.

20. **INVOICING:** Contractor will submit invoices within thirty (30) days after Contractor's performance of the Services to the State Entity. The Purchase Order number shall be listed on all invoices, freight tickets, and correspondence relating to this Purchase Order. The prices paid by the State Entity will be those prices listed in this Purchase Order, unless Contractor offers a prompt payment discount within its Proposal or on its invoice. The State Entity has the right to adjust or return any invoice reflecting incorrect pricing.

21. **PAYMENT:** Payments are to be made within thirty (30) days after a correct invoice is received. All payments to Contractor will be remitted by mail, electronic funds transfer, or the State of Utah's Purchasing Card (major credit card). If payment has not been made after sixty (60) days from the date a correct invoice is received by the State Entity, then interest may be added by Contractor as prescribed in the Utah Prompt Payment Act. The acceptance by Contractor of final payment, without a written protest filed with the State Entity within ten (10) business days of receipt of final payment, shall release the State Entity and the State of Utah from all claims and all liability to the Contractor. The State Entity's payment for the Services shall not be deemed an acceptance of the Services and is without prejudice to any and all claims that the State Entity or the State of Utah may have against Contractor. The State of Utah and the State Entity will not allow the Contractor to charge end users electronic payment fees of any kind.

22. **TIME IS OF THE ESSENCE:** The Services shall be completed by any applicable deadline stated in this Purchase Order. For all Services, time is of the essence. Contractor shall be liable for all reasonable damages to the State Entity and the State of Utah, and anyone for whom the State of Utah may be liable, as a result of Contractor's failure to timely complete the Services required under this Purchase Order.

23. **CHANGES IN SCOPE:** Any changes in the scope of the Services to be performed under this Purchase Order shall be in the form of a written amendment to this Purchase Order, mutually agreed to and signed by both parties, specifying any such changes, fee adjustments, any adjustment in time of performance, or any other significant factors arising from the changes in the scope of Services.

24. **PERFORMANCE EVALUATION:** The State Entity may conduct a performance evaluation of Contractor's Services, including Contractor's Subcontractors, if any. Results of any evaluation may be made available to the Contractor upon Contractor's request.

25. **STANDARD OF CARE:** The Services of Contractor and its Subcontractors shall be performed in accordance with the standard of care exercised by licensed members of their respective professions having substantial experience providing similar services, which similarities include the type, magnitude, and complexity of the Services that are the subject of this Purchase Order. Contractor shall be liable to the State Entity and the State of Utah for claims, liabilities, additional burdens, penalties, damages, or third party claims (e.g., another Contractor's claim against the State of Utah), to the extent caused by wrongful acts, errors, or omissions that do not meet this standard of care.

26. **REVIEWS:** The State Entity reserves the right to perform plan checks, plan reviews, other reviews, and/or comment upon the Services of Contractor. Such reviews do not waive the requirement of Contractor to meet all of the terms and conditions of this Contract.

27. **ASSIGNMENT:** Contractor may not assign, sell, transfer, subcontract or sublet rights, or delegate any right or obligation under this Purchase Order, in whole or in part, without the prior written approval of the State Entity.

28. **BREACH AND REMEDIES:** Any of the following events will constitute cause for the State Entity to declare Contractor in breach of this Purchase Order: (i) Contractor's non-performance of its contractual requirements and obligations under this Purchase Order; or (ii) Contractor's material breach of any term or condition of this Purchase Order. If the Contractor is in breach of this Purchase Order the State Entity may do one or more of the following: (i) exercise any remedy provided by law or equity; (ii) terminate this Purchase Order; (iii) impose liquidated damages, if liquidated damages are listed in this Purchase Order; (iv) debar/suspend Contractor from receiving future contracts from the State Entity or the State of Utah; or (v) demand a full refund of any payment that the State Entity has made to Contractor under this Purchase Order for Services that do not conform to this Purchase Order.

29. **FORCE MAJEURE:** Neither party to this Purchase Order will be held responsible for delay or default caused by fire, riot, act of God, and/or war which is beyond that party's reasonable control. The State Entity may terminate this Purchase Order after determining such delay will prevent successful performance of this Purchase Order.

30. **CONFIDENTIALITY:** If Confidential Information is disclosed to Contractor, Contractor shall: (i) advise its agents, officers, employees, partners, and Subcontractors of the obligations set forth in this Purchase Order; (ii) keep all Confidential Information strictly confidential; and (iii) not disclose any Confidential Information received by it to any third parties. Contractor will promptly notify the State Entity of any potential or actual misuse or misappropriation of Confidential Information.

Contractor shall be responsible for any breach of this duty of confidentiality, including any required remedies and/or notifications under applicable law. Contractor shall indemnify, hold harmless, and defend the State Entity and the State of Utah, including anyone for whom the State Entity or the State of Utah is liable, from claims related to a breach of this duty of confidentiality, including any notification requirements, by Contractor or anyone for whom the Contractor is liable.

Upon termination or expiration of this Purchase Order, Contractor will return all copies of Confidential Information to the State Entity or certify, in writing, that the Confidential Information has been destroyed. This duty of confidentiality shall be ongoing and survive the termination or expiration of this Purchase Order.

31. **PUBLICITY:** Contractor shall submit to the State Entity for written approval all advertising and publicity matters relating to this Purchase Order. It is within the State Entity's sole discretion whether to provide approval, which must be done in writing.

32. **CONTRACT INFORMATION:** Contractor shall provide information regarding job vacancies to the State of Utah Department of Workforce Services, which may be posted on the Department of Workforce Services website. Posted information shall include the name and contact information for job vacancies. This information shall be provided to the State of Utah Department of Workforce Services for the duration of this Purchase Order. This requirement does not preclude Contractor from advertising job openings in other forums throughout the State of Utah.

33. **INDEMNIFICATION RELATING TO INTELLECTUAL PROPERTY:** Contractor will indemnify and hold the State Entity and the State of Utah harmless from and against any and all damages, expenses (including reasonable attorneys' fees), claims, judgments, liabilities, and costs in any action or claim brought against the State Entity or the State of Utah for infringement of a third party's copyright, trademark, trade secret, or other proprietary right. The parties agree that if there are any limitations of Contractor's liability, such limitations of liability will not apply to this section.

34. **OWNERSHIP IN INTELLECTUAL PROPERTY:** The State Entity and Contractor agree that each has no right, title, interest, proprietary or otherwise in the intellectual property owned or licensed by the other, unless otherwise agreed upon by the parties in writing. All deliverables, documents, records, programs, data, articles, memoranda, and other materials not developed or licensed by Contractor prior to the execution of this Purchase Order, but specifically created or manufactured under this Purchase Order, shall be considered work made for hire, and Contractor shall transfer any ownership claim to the State Entity.

35. **WAIVER:** A waiver of any right, power, or privilege shall not be construed as a waiver of any subsequent right, power, or privilege.

36. **PROCUREMENT ETHICS:** Contractor understands that a person who is interested in any way in the sale of any supplies, services, construction, or insurance to the State of Utah is violating the law if the person gives or offers to give any compensation, gratuity, contribution, loan, reward, or any promise thereof to any person acting as a procurement officer on behalf of the State of Utah, or to any person in any official capacity who participates in the procurement of such supplies, services, construction, or insurance, whether it is given for their own use or for the use or benefit of any other person or organization.

37. **ATTORNEY'S FEES:** In the event of any judicial action to enforce rights under this Purchase Order, the prevailing party shall be entitled its costs and expenses, including reasonable attorney's fees, incurred in connection with such action.

38. **DISPUTE RESOLUTION:** Prior to either party filing a judicial proceeding, the parties agree to participate in the mediation of any dispute. The State Entity, after consultation with the Contractor, may appoint an expert or panel of experts to assist in the resolution of a dispute. If the State Entity appoints such an expert or panel, State Entity and Contractor agree to cooperate in good faith in providing information and documents to the expert or panel in an effort to resolve the dispute.

39. **ORDER OF PRECEDENCE:** In the event of any conflict in the terms and conditions in this Purchase Order, the order of precedence shall be: (i) the Purchase Order Terms and Conditions for Services; (ii) the State of Utah's additional terms and conditions, if any; and (iii) Contractor's terms and conditions that are attached to this Purchase Order, if any. Any provision attempting to limit the liability of Contractor or limit the rights of the State Entity or the State of Utah must be in writing and attached to this Purchase Order or it is rendered null and void.

41. **SURVIVAL OF TERMS:** Termination or expiration of this Purchase Order shall not extinguish or prejudice the State Entity's right to enforce this Purchase Order with respect to any default of this Purchase Order or defect in the Services that has not been cured.

42. **SEVERABILITY:** The invalidity or unenforceability of any provision, term, or condition of this Purchase Order shall not affect the validity or enforceability of any other provision, term, or condition of this Purchase Order, which shall remain in full force and effect.

43. **ENTIRE AGREEMENT:** This Purchase Order constitutes the entire agreement between the parties and supersedes any and all other prior and contemporaneous agreements and understandings between the parties, whether oral or written.

Revised 14 July 2017

Bald Knoll Lop and Scatter (Alton Coal Mine)

Project ID: 4414
Status: Current
Fiscal Year: 2018
Submitted By: N/A
Total Acres: 337

Project Manager: Stan Gurley
PM Agency: Utah Division of Wildlife Resources
PM Office: Southern Region
Lead: Utah Division of Wildlife Resources
WRI Region: Southern

Description:

Improve range and habitat conditions by removing approximately 300 acres of encroaching pinyon and juniper from potential sage grouse winter/brood rearing habitat use lop and scatter.

Location:

Bald Knoll is found 11 miles southeast of Glendale north of the Glendale Bench Road.

PROJECT NEED

Need For Project:

The need of the project is to reduce encroachment of pinyon/juniper to enhance deer & elk winter range and improve potential habitat conditions for sage grouse by promoting the growth of perennial under-story species, increase species diversity, increase structural diversity, rejuvenate remnant stands of sagebrush and bitter brush.

Objectives:

Remove approximately 300 acres of encroaching pinyon and juniper within the identified private land acres. Improve potential sage-grouse habitat by maintaining sage bush and bitter brush components; increasing the edge affect and improving desirable, vegetative diversity. Enhance crucial mule deer, and elk range by removing encroaching pinyon and juniper within selected areas. Increase plant diversity and vigor by removing encroaching pinyon and juniper; thus freeing valuable resources. Improve wildlife

Threats / Risks:

The invasion of pinyon and juniper trees into areas once dominated by grasses, forbs, and shrubs increases the risk of losing key areas for mule deer, elk, and potentially sage grouse. . The increase of pinyon and juniper also increases the risk of catastrophic wildfire in these habitats.

As with any type of disturbance there is some risk of invasion of non-native undesirable plant species. Lop and scatter treatment method will greatly minimize that risk as the area will be disturbed by foot travel only. There is also a potential threat / risk of temporary displacement of wildlife species while the project is implemented. Normal and increased wildlife use is expected to occur after implementation. There is also a risk that PJ obligate wildlife species will be negatively impacted however, there will be an expected increase in vegetative diversity, and a corresponding increase in wildlife diversity overall

Relation To Management Plan:

1.)The North American Mule Deer Restoration Plan identifies restoring or improving mule deer habitat function throughout mule deer range as a primary objective. The plan states; proactively manage shrub communities (using prescribed fire, mechanical treatment, or other approaches as appropriate at a site specific basis) to maintain mosaics of uneven aged stands to enhance habitat conditions for mule deer.
2.)Utah Division of Wildlife Resources Statewide Management Plan for Mule Deer (2008) identifies the following objective; Initiate broad scale vegetative treatment projects to improve mule deer habitat with emphasis on drought or fire damaged sagebrush winter ranges, ranges that are being taken over by invasive annual grass species, and ranges being diminished by encroachment of conifers into sagebrush or aspen habitats.
3.) The Paunsaugunt Mule Deer Management Plan identifies pinyon-juniper thinning project on BLM and private land as a primary habitat objective.
4.) The Paunsaugunt Unit Elk Management Plan states, "continue to be committed to the statewide goal of supporting elk habitat projects"

Fire / Fuels:

Removal of the pinyon and juniper trees will reduce the fuel loads, and create a break in fire regimes. Allowing for better control and suppression efforts when a fire starts.

Water Quality/Quantity:

Water quality and quantity degradation has been linked to pinyon and juniper stands. Currently we have not reached a stage that has caused significant impacts to the watershed, but this project will prevent more costly projects in the future.

Compliance:

This is 100% ground with no federal funds attached. I have consulted with Monson Shaver, for WRI purposes.

Methods:

Pinyon and juniper, which currently occupy and are encroaching upon the site will be removed by hand crews with chainsaws which will be contracted by the UDWR. Project areas would be flagged, identified and the contract will be admistered by UDWR staff.

Monitoring:

Vegetative monitoring will be done through selected photo points with pre and post treatment of the lop and scatter project.

Partners:

Alton Coal and private land owners

Future Management:

No grazing restrictions would be imposed as no seeding would take place.
Re-encroachment of woodland will be monitored and maintenance carried out as needed via subsequent habitat proposals. This project will link existing NRCS projects and future projects on State, BLM and Private lands.

Domestic Livestock Benefit:

The removal of the encroaching trees will result in long term benefits for livestock, by maintaining forage availability and watering benefits, while not removing shading and loafing areas.

BUDGET

WRI/DWR	Other	Budget Total	In-Kind Total	Grand Total
$24,864.00	$0.00	$24,864.00	$0.00	$24,864.00

Item	Description	WRI	Other	In-Kind	Year
Contractual Services	Contracting of 300 ac of lop and scatter.	$24,864.0	$0.00	$0.00	2018

FUNDING

WRI/DWR	Other	Funding Total	In-Kind Total	Grand Total
$24,864.00	$0.00	$24,864.00	$0.00	$24,864.00

Source	Phase	Description	Amount	Other	In-Kind	Year
Alton Coal Development	N675	Payment for 300 ac of lop and scatter	$24,864.0	$0.00	$0.00	2018

EXPENSE

WRI/DWR	Other	Expense Total	In-Kind Total	Grand Total
$0.00	$0.00	$0.00	$0.00	$0.00

Source	Phase	Description	Amount	Other	In-Kind	Year
Alton Coal Development	N675	N/A	$0.00	$0.00	$0.00	

SPECIES

Species	"N" Rank	HIG/F Rank
Mule Deer		1

Threat	Impact
Droughts	Medium
Inappropriate Fire Frequency and Intensity	High
Invasive Plant Species – Non-native	High

Species	"N" Rank	HIG/F Rank
Elk		2

Threat	Impact
Droughts	Low
Inappropriate Fire Frequency and Intensity	High
Invasive Plant Species – Non-native	Low

Species	"N" Rank	HIG/F Rank
Greater Sage-grouse	N3	1

Threat	Impact
Droughts	Medium
Inappropriate Fire Frequency and Intensity	Very High
Problematic Plant Species – Native Upland	High

HABITATS

Habitat
Lowland Sagebrush

Threat	Impact
Droughts	High
Inappropriate Fire Frequency and Intensity	Very High
Problematic Plant Species – Native Upland	Medium

PROJECT COMMENTS

COMPLETION

Start Date:

End Date:

FY Implemented:
2018

FY Completed:

Final Methods:
N/A

Project Narrative:
N/A

Future Management:
N/A

Map Features

ID	Feature Category	Action	Treatment/Type
6207	Terrestrial Treatment Area	Vegetation removal / hand crew	Lop and scatter

Annual Refresher

1-28-2017

Topic: Environmental & Wildlife Training

Instructor: Kirk Nicholes

Attendees:

[illegible]	Dave Riddle
[illegible]	[illegible]
MILO PALMER	Kent Chalem
Kendall Tait	Scott Cutt
Tim Heaton	Mason Campbell
Jim Bunting	[illegible]
Val [illegible]	[illegible]
Chad [illegible]	[illegible]
[illegible]	[illegible]
Eric L [illegible]	Charlie Dam
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	ANDREW CHRISTENSON
[illegible]	
[illegible]	
[illegible]	
JOHN R [illegible]	
[illegible]	
TOMA [illegible]	

Alton Coal Development Wildlife Awareness

- Objective: Protection of resident wildlife, minimize impact to wildlife during mining.
  - Speed limits of all vehicles will be 25 mph inside the permit area.
  - No operations will be conducted that would likely jeopardize T&E species.
  - Electric power lines and other transmition facilities are designed and constructed to minimize electrocution hazards to raptors.

Alton Coal Development Wildlife Awareness cont.

- The mine site is considered habitat for:
  - Deer (mid April to mid November)
  - Elk
  - Black Bear
  - Sage grouse (throughout the year, report to Kirk)
- Wildlife and domestic livestock mortalities from coal haul and associated vehicles from the mine site to highway 89 reported to the Environmental Specialist.

Alton Coal Development Wildlife Awareness cont.

Alton Coal Development Wildlife Awareness cont.

Alton Coal Development Wildlife Awareness cont.

Alton Coal Development Wildlife Awareness cont.

Joe – Mar. 18, 2016

Davey – Jan. 25, 2016

BIGHORN ARCHAEOLOGICAL CONSULTANTS, LLC
3706 NICHOLAS DRIVE, SANTA CLARA, UTAH 84765
(435) 632-8250 (801) 437-1736 FAX

26 May 2017

Daron Haddock
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: Archaeological Monitoring within the Coal Hollow Mine, North Private Lease Area, Kane County, Utah (February-March 2017)

Daron:

Bighorn Archaeological Consultants, LLC (Bighorn) completed archaeological monitoring at the request of Alton Coal Development, LLC within the Coal Hollow Mine, North Private Lease Area, in Kane County, Utah during the months of February and March 2017. The monitoring was conducted per guidelines established in the *Archaeological Monitoring & Historic Properties Treatment Plan for the Alton Coal North Private Lease Area, Kane County, Utah* (Gourley 2016) and *Cultural Resource Management Plan for Alton Coal Developments Proposed Development of the Alton Amphitheater and Sink Valley, Kane County Utah* (Stavish 2008). Project activities during that timeframe included removal of 10-18" of topsoil and construction of a temporary pond, and access road by a tracked bulldozer and trackhoe.

Archaeological monitors were present during all new surface disturbances to the project area within T 39S, R 6W, Section 13 on 7-8 and 13 February, and 6 and 14-15 March 2017. Project related work occurred within the original 1986 boundary of one historic property, 42KA3097. Monitoring activities did not encounter any cultural features, however one artifact was documented (Table 1).

Alton Coal Development, LLC will notify Bighorn of future monitoring needs as they arise for other portions of the project area. Feel free to contact me with any questions or concerns.

Sincerely,

Dale R. Gourley
Principal Investigator / Co-Owner
Bighorn Archaeological Consultants, LLC

Table 1. Monitoring results

Date	Artifacts Encountered	Location
2/7/2017	-	-
2/8/2017	-	-
2/13/2017	-	-
3/6/2017	-	-
3/14/2017	Single-handed quartzite mano	Surface
3/15/2017	-	-

References Cited

Gourley, Dale R.
2016 *Archaeological Monitoring & Historic Properties Treatment Plan for the Alton Coal North Private Lease Area, Kane County, Utah.* Report Number 15-44. Bighorn Archaeological Consultants, LLC, Santa Clara, Utah.

Stavish, Patricia
2008 *Cultural Resources Management Plan for Alton Coal Development's Proposed Development of the Alton Amphitheater and Sink Valley, Kane County, Utah*. MOAC Report No. 07-136. Montgomery Archaeological Consultants, Inc., Moab, Utah.

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 2/7/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 248 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Temp. Pond Construction

Removal of topsoil and excavation of temp Pond area began. New access road was surveyed and staked. No cultural remains encountered in the activity area.

Weather: Overcast and cold; very muddy

Sites: N/A

Visitors: None

Additional Comments:

photo doc

07Feb2017:01 Temp pond construction looking south

07Feb2017:02 Temp pond construction looking southeast

07Feb2017:03 Temp pond construction looking south

07Feb2017:04 Temp pond construction looking west

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 2/8/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 246 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Temp. Pond Construction

CAT continued removal of topsoil and excavation of temp Pond area. No cultural remains encountered in the activity area.

Weather: Overcast and cold; very muddy

Sites: N/A

Visitors: None

Additional Comments:

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 2/13/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 246 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Temp. Pond Construction

CAT continued removal of topsoil and excavation of temp Pond area; also began removing topsoil and blading new road alignment to access pond.. No cultural remains encountered in the activity area.

Weather: Sunny and cold; very muddy

Sites: N/A

Visitors: None

Additional Comments:

photo doc

13Feb2017:01 Temp Pond Construction looking east

13Feb2017:02 Temp Pond Construction looking south

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 3/6/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 248 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Temp. Pond Construction; Top soil removal

CAT continued removal of topsoil and excavation of temp Pond area. No cultural remains encountered in the activity area. Work was confined to small area do to snow cover and no visibility

Weather: Sunny and cold

Sites: 42KA3097 on the boundaries of project area where topsoil removal began.

Visitors: None

Additional Comments:

photo doc

06Mar2017:01 Topsoil removal looking southeast

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 3/14/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 247 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Top soil removal

CAT continued removal of topsoil. One piece of groundstone, a mano fragment was recorded.

Weather: Sunny and warm

Sites: 42KA3097 on the boundaries of project area

Visitors: None

Additional Comments:

photo doc

GPS file

14Mar2017:01 Topsoil removal looking northeast

14Mar2017:02 Quartzite mano

14Mar2017:03 Quartzite mano

14Mar2017:04 Quartzite mano

DAILY MONITORING REPORT

Bighorn Archaeological Consultants, LLC

Monitor Name: Steven Hall

Date: 3/15/2017

Project Name/Number: Alton Coal Monitoring

Project Location: Alton Coal/NPLA

Structure/Station: N/A

Vehicle: Toyota Tundra (Silver) Mileage: 246 (R/T)

Crew & Supervisor: Josh (Track hoe Operator)

Activity: Top soil removal

CAT completed removal of topsoil. Monitoring completed.

Weather: Overcast and cool

Sites: 42KA3097 on the boundaries of project area

Visitors: None

Additional Comments:

photo doc

15Mar2017:01 Topsoil removal looking northeast

15Mar2017:02 Topsoil removal looking east

15Mar2017:03 Topsoil removal looking west

15Mar2017:04 Topsoil removal looking southeast

15Mar2017:05 Overview of temporary pond looking southeast

Tax-ID NO. 41-0696271

Agreement Number: 17-7349-9007 -FA
Account Code: 7X WSWR4949 REIMBUR OTCS WSWR49
District

COOPERATIVE SERVICE FIELD AGREEMENT
between
Alton Coal Development Company (Cooperator)
and
UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
WILDLIFE SERVICES

ARTICLE 1

The purpose of this agreement is to cooperate in a wildlife damage management project as described below.

To provide protection for nesting sage grouse by managing damage caused by common ravens, red fox, raccoons, skunks and coyotes.

ARTICLE 2

Under the Act of March 2, 1931, as amended (7 USC 426), and the Act of December 22, 1987 (7 USC 426c),), the Secretary of Agriculture may conduct a program of wildlife services with respect to injurious animal species and take any action the Secretary considers necessary in conducting the program. Additionally, the Secretary of Agriculture, except for urban rodent control, is authorized to conduct activities to control nuisance mammals and birds and those mammal and bird species that are reservoirs for zoonotic diseases. In carrying out a program of wildlife services involving injurious and/or nuisance animal species or involving mammal and bird species that are reservoirs for zoonotic diseases, the Secretary is authorized to cooperate with States, local jurisdictions, individuals, public and private agencies, organizations, and institutions.

APHIS-WS and the Cooperator agree:

ARTICLE 3

1. APHIS-WS will provide the requested wildlife damage management service;
2. The Cooperator will provide, at time of service, a certified or cashier's check, personal check or money order payable to USDA, APHIS in the amount of $ 7500 for: Salaries, benefits, supplies, equipment and vehicle expense...not to exceed 160hrs
3. The monies received by APHIS-WS will be used for the purpose stated above.
4. The performance of WDM actions by APHIS-WS under this Agreement is contingent upon a determination by APHIS-WS that such actions are in compliance with the National Environmental Policy Act, Endangered Species Act, and any other applicable environmental statues. APHIS-WS will not make a final decision to conduct requested WDM actions until it has made the determination of such compliance.
5. Nothing in this Agreement shall prevent any other individual or organization from entering into separate Agreements with APHIS-WS for the purpose of controlling wildlife damage.
6. That APHIS-WS has advised the Cooperator that other private sector service providers may be available to provide wildlife management services and notwithstanding these other options, Cooperator requests that APHIS-WS provide wildlife management services as stated under the terms of this Agreement.

initial

ARTICLE 4

This Agreement is contingent upon the passage by Congress of an appropriation from which expenditures may be legally met and shall not obligate the requisitioning agency upon failure of Congress to so appropriate. This Agreement also may be reduced or terminated if Congress only provides the Agency funds for a finite period under a Continuing Resolution.

ARTICLE 5

Pursuant to Section 22, Title 41, United States Code, no member of or delegate to Congress shall be admitted to any share or part of this Agreement or to any benefit to arise there from.

ARTICLE 6

APHIS assumes no liability for any actions or activities conducted under this agreement except to the extent the recourse or remedies are provided by Congress under the Federal Tort Claims Act (28 USC 1346(b), 2401(b), 2671-2680).

All WDM activities will be conducted in accordance with applicable Federal, State, and local laws and regulations.

This agreement is not a procurement contract (31 U.S.C. 6303), nor is it considered a grant (31 U.S.C. 6304). In this agreement, APHIS provides goods or services on a cost recovery basis to nonfederal recipients.

This Agreement shall become effective April 21, 20 17, and shall continue through April 20, 20 18 not to exceed one year. This agreement may be amended or terminated at any time by mutual agreement of the parties in writing. Further, in the event the Cooperator does not, for any reason, deposit necessary funds, APHIS-WS is relieved of the obligation to provide services under this Agreement.

Cooperator Name, Address, and Phone Number
Alton Coal Development Company
Contact: Kirk Nicholes Environ. Specialist
463 N 100 W Cedar City, UT 84721

435-867-5331 / 435-691-1551
Phone Number

Fax Number

42-1655092
Cooperator's Tax ID No. or Social Security No.
(As required by Debt Collection Improvement Act of 1996)

Cooperator's Signature **Date**

WS Representative Signature **Date** 6/12/2017

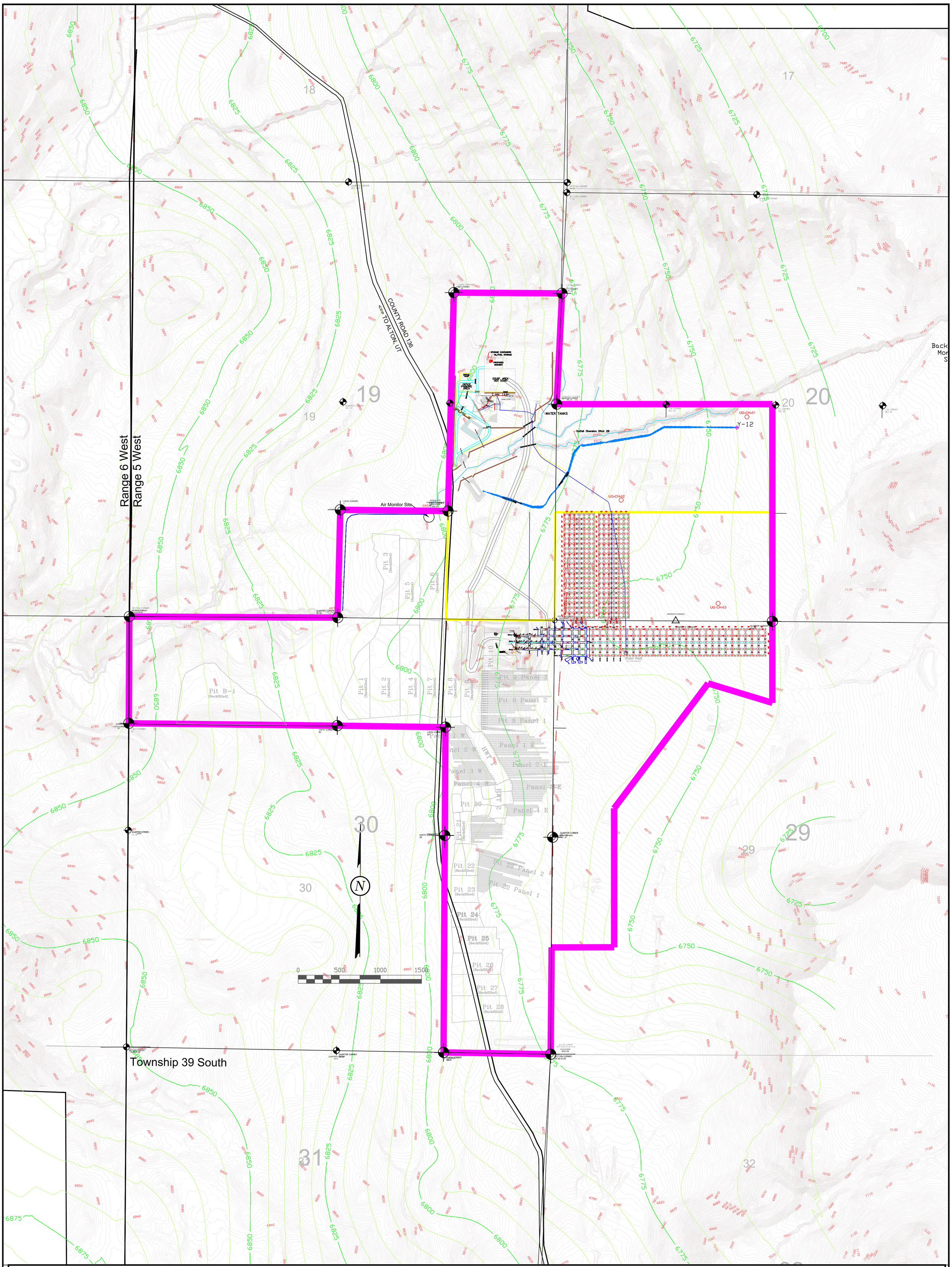
State Director's Signature **Date** 6/12/2017

Revised 11/12/13

Statement of Purpose

The purpose of this agreement is to provide assistance to Alton Coal Development Company in the form of a predator control program to protect native sage grouse populations. This assistance may be in the form of educational information, non-lethal methods, and direct control. When direct control is necessary, the most effective and safe tools and techniques available will be utilized.

The specific goal is to conduct a predator control program in an effort to protect nesting sage grouse populations in the immediate area of the proposed mine site, and in areas outlined as future mitigation sites. The focus will be to minimize common raven, red fox, raccoon, skunk, and coyote depredation occurring during the sage grouse nesting season not to exceed 160 hours during the agreement period.



LEGEND:

- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- TOP OF COAL CONTOUR
- SURFACE CONTOUR
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

DRAWN BY:	CHECKED BY:
ARC	DWG
DRAWING: 1 of 2	DATE: 7/21/2015
	SCALE: 1" = 500'
JOB NUMBER:	SHEET

REVISIONS

DATE:	BY:
4/19/16	AC
1/1/17	AC
7/31/17	AC
10/17/17-no change	AC
1/17/18-no change	AC

MINE MAP
Coal Hollow Mine

MSHA ID - 42-02519

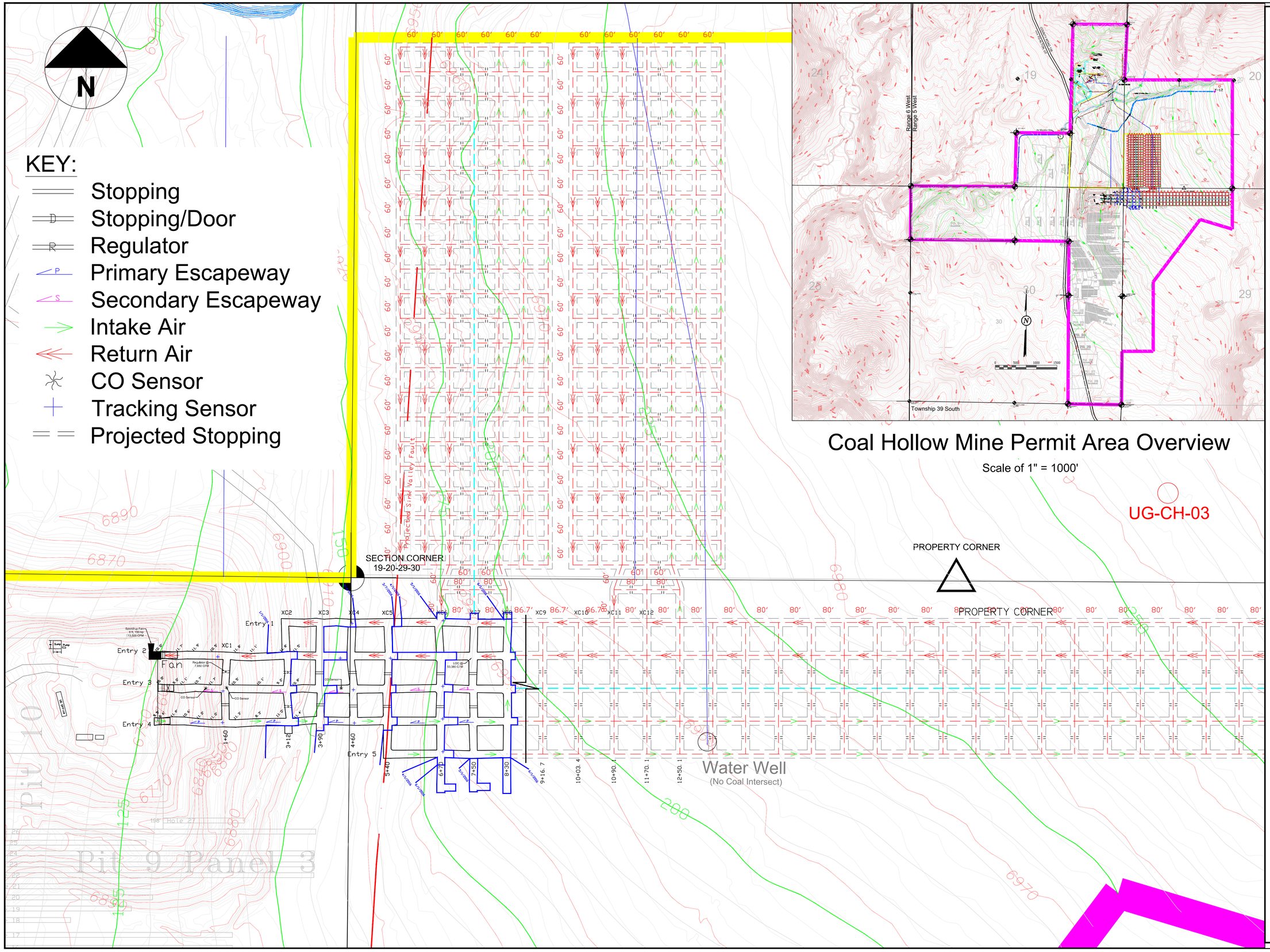
COAL HOLLOW PROJECT
2060 S. ALTON ROAD
ALTON, UTAH

DRAWING: 1 of 2

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



Alton Coal Development
Coal Hollow Project

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

MINE MAP
Burton #1 Mine
MSHA ID - 42-02639

COAL HOLLOW PROJECT
2060 S. ALTON ROAD
ALTON, UTAH
DRAWING: 1 of 1

REVISIONS

DATE:	BY:
4/27/2016	AC
6/24/2016	AC
9/30/16-no change	AC
1/31/17-no change	AC
7/31/17-no change	AC
10/17/17-no change	AC
11/22/17-IDLE	AC

DRAWN BY: ARC	CHECKED BY: DWG
DRAWING: 1 of 1	DATE: 7/21/2015
	SCALE: 1" = 100'
	JOB NUMBER: SHEET

LEGEND:
PERMIT BOUNDARY
PRIVATE COAL OWNERSHIP
OB THICKNESS CONTOUR
SURFACE CONTOUR
SECTION LINE
FOUND SECTION CORNER
FOUND PROPERTY CORNER

N

Air Monitor Site

County Road 136

County Road 136 Bypass

Subsoil Stockpile

Ditch 5

Topsoil Stockpile

Exposed Coal

Active Overburden Removal

Active Backfill

NE 1/16 CORNER SEC 13

Pit 14

Pit 13

Pit 12 (Active Mining)

Pit 11 (Active Mining)

Pit 01 (Backfilled)

Pit 02 (Backfilled)

Pit 03 (Backfilled)

Pit 04 (Backfilled)

Pit 05 (Backfilled)

Pit 06 (Backfilled)

Pit 07 (Active Backfill)

Pit 08 (Active Backfill)

Pit 09 (Active Backfill)

Pit 10 (Active Backfill)

Pond 5

Pond 6

Ditch 6

Ditch 7

Ditch 8

Ditch 9

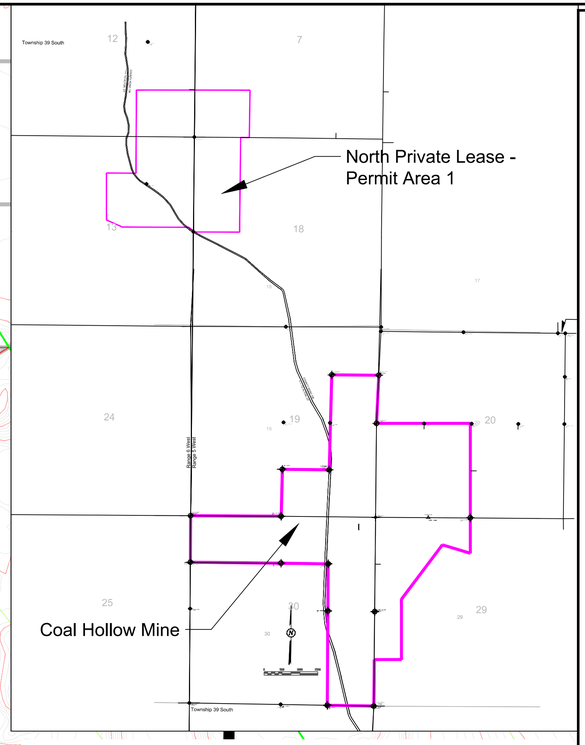
ASCA-1

County Road 136 Bypass

Kanab Creek

13

Contour Interval = 2'



Coal Hollow Mine Permit Areas Overview

Scale of 1" = 2000'

Alton Coal Developments
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 C. CHRISTENSEN STATE OF UTAH

MINE MAP
Coal Hollow Mine
North Private Lease
MSHA ID - 42-02519

COAL HOLLOW PROJECT
2060 S. ALTON ROAD
ALTON, UTAH
DRAWING: 2 of 2

REVISIONS	
DATE:	BY:
9/30/16	AC
3/31/17	AC
7/31/17	AC
10/17/17	AC
1/17/18	AC

DRAWN BY: ARC	CHECKED BY: DWG
DRAWING: 2 of 2	DATE: 4/19/2016
	SCALE: 1" = 100'
JOB NUMBER:	SHEET

LEGEND:
- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- TOP OF COAL CONTOUR
- SURFACE CONTOUR
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER

PETERSEN HYDROLOGIC

29 March 2018

Mr. Kirk Nicholes
Environmental Specialist
Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84721

Kirk,

At your request, I have performed an evaluation of Coal Hollow Mine water discharges during 2017 as specified in Stipulation #5 of the approved Coal Hollow Mine Mining and Reclamation Plan. The stipulation states that the applicant will be required to evaluate discharges from the mine to determine impacts to the designated alluvial valley floor (AVF) on Kanab Creek. An annual finding should be placed in the annual report during operation and reclamation of any adverse impacts to the channel, diminution of water quality and impacts to wildlife.

Precipitation Accumulations and Surface-Water Runoff

It is noted here that the wintertime snow accumulation during the winter of 2016-2017 in the Alton, Utah area was unusually large.

During the months of December 2016 and January 2017, 9.83 inches of precipitation (snow water equivalent) was measured at the Alton, Utah NOAA weather station (USC00420086). Most of this precipitation fell as snow.

- 3.53 inches of precipitation (snow-water equivalent) in December 2016
- 6.30 inches of precipitation (snow-water equivalent) in January 2017

By late January 2017, a total of 41 inches of snow was measured on the ground at the Alton, Utah NOAA weather station.

Assuming a total of 2.04 inches of precipitation that fell during February, a total of at least 11.87 inches of precipitation occurred in the Alton/Coal Hollow Mine area during the three month period December 2016 to February 2017. Most of this snow accumulation subsequently melted by the end of February 2017.

2695 N. 600 E. LEHI, UTAH 84043 (801) 766-4006

While it is expected that some of the snow melt water would be lost to infiltration, it is anticipated that a large portion of the snowmelt water would run off over the ground surface in mining areas. In contrast to short-duration, warm weather torrential precipitation events where the rainfall often falls on dry ground, the ground surface immediately beneath the melting snowpack would have likely been at or near saturation nearly continuously during the period, resulting in increased potential for runoff of snowmelt waters and chemical interactions with the underlying soils and rocks. As a consequence of the unusually wet conditions the region experienced during the wintertime of 2017, pond discharges measured during 2017 were more frequent and of somewhat greater magnitude than the discharges that typically have occurred during most previous years at the Coal Hollow Mine.

UPDES Discharges During 2017

During 2017 there were UPDES discharges of water from the Coal Hollow Mine (Table 1). These discharges occurred during the months of January, February, March, April, and June. With the exception of minor discharge from North Private Lease Area Pond 5, all of the UPDES discharges during 2017 were from the south mine area.

Discharge rates and water quality parameters measured for the UPDES discharges from the Coal Hollow Mine during 2017 are summarized in Table 1. These discharges were intermittent and occurred primarily in response to significant precipitation and snowmelt runoff events that occurred during 2017. As discussed above, runoff from the unusually large wintertime snow accumulations in the mine area during 2016-2017 influenced the characteristics of the UPDES discharges during 2017.

The reported discharges from the UPDES discharge points in the south mine area during 2017 ranged from 1 gpm to 71 gpm (Table 1). Discharges from Ponds, 1, 1B, 2, and 3 in the south mine area flow to Lower Robinson Creek. Lower Robinson Creek flows into Kanab Creek west of the mine permit area within the designated AVF. Discharge from Pond 4 flows into Sink Valley Wash. Sink Valley Wash flows into Kanab Creek about 7 miles below the Coal Hollow Mine permit area (which is a considerable distance below the designated AVF on Kanab Creek). Thus, Pond 4 discharge is not associated with the designated AVF on Kanab Creek.

During 2017, the only UPDES discharge from the North Private Lease area was from Pond 5. Discharge from Pond 5 flows into Simpson Hollow creek immediately west of the Pond 5 location. Simpson Hollow creek flows into Kanab Creek about 1 mile south

of the Pond 5 location. The reported discharges from Pond 5 occurred only during the month of February. These discharges ranged from 1.2 to 7.2 gpm and averaged 5 gpm (Table 1). The Pond 5 discharges were in response to copious snowmelt and precipitation that occurred on lands in the drainage area above the pond.

Potential Impacts to Stream Channel

The Lower Robinson Creek stream channel and the Kanab Creek stream channel in the designated AVF area were traversed and inspected on several occasions during 2017, including an end-of-year inspection on 30 December 2017. There were no indications in these surveys that the UPDES discharges of water from the Coal Hollow Mine had caused adverse impacts to the Lower Robinson Creek stream channel or to the Kanab Creek stream channel in the designated AVF.

No increased erosion in the stream channel was identified that could be attributed to the addition of the Coal Hollow Mine discharge water to Lower Robinson Creek. This finding is not unanticipated, as much larger discharges of water occur periodically in Lower Robinson Creek. Discharge rates measured in the drainage have exceeded 8,000 gpm, which exceeds the 2017 pond UPDES discharges by many times.

The short-term discharge of 5 gpm to Kanab Creek during high-flow conditions in the drainage did not adversely affect the stream channel characteristics in the stream where is passes through the designated AVF. The contribution of 5 gpm to the total flow in Kanab Creek represents a negligible increase in the flow relative to the much larger flows that are usually present in the stream. During the first quarter of the year flows in Kanab Creek near the designated AVF commonly exceed several hundred gpm, while during flood events discharges of several thousand gpm sometimes occur in Kanab Creek (see data on file in the Utah Division of Oil, Gas and Mining on-line Coal Water Quality Database).

It is noted that during 2017 a stream restoration project was carried out on behalf of Alton Coal Development, LLC on an impaired reach of Kanab Creek within the designated AVF. The project was performed under the authorization of the U.S. Army Corps of Engineers in consultation with Utah State regulatory agencies and the private land owner. The purpose of the project was to reduce the stream erosion potential along the designated reach of Kanab Creek by stabilizing the stream bed and banks and to enhance riparian vegetation along the water course.

Potential Water Quality Diminution

It should be noted that the surface water in Lower Robinson Creek does not contribute to the essential hydrologic function of the designated AVF in Kanab Creek. Lower Robinson Creek is incised within its channel in the AVF area and the water in the stream is not used for irrigation or sub-irrigation activities at the site. There are no irrigation diversions on Lower Robinson Creek in the AVF area. The lowermost irrigation diversions on Kanab Creek regionally (which is the source of irrigation water for the designated AVF) is located above the confluence of Lower Robinson Creek and thus the AVF was not influenced by the Coal Hollow Mine south area UPDES discharge water in Lower Robinson Creek during 2017.

The overall quality of the Coal Hollow Mine discharges to Lower Robinson Creek during 2017, as reflected by the average total dissolved solids (TDS) concentrations of the waters, was within the State water quality standard for irrigation water (Table 1). It is noted that water samples collected on a few occasions during 2017 had TDS concentrations exceeding the irrigation standard. The pH levels of all UPDES discharge waters during 2017 were within the UPDES limits of 6.5 to 9.0. The anomalous precipitation and snowmelt conditions experienced at the mine site during early 2017 likely influenced the water quantity and quality characteristics of the UPDES discharges from the Coal Hollow Mine during 2017.

During 2017, the only UPDES discharge from the North Private Lease area was from Pond 5. Discharge from Pond 5 flows into Simpson Hollow creek immediately west of the Pond 5 location. Because water in Kanab Creek is diverted for irrigation use on the designated alluvial valley floor only during the period 1 April through 31 October, the water from the February 2017 Pond 5 discharge was not used for irrigation and did not contribute to the water supply of the designated alluvial valley floor on Kanab Creek.

The water quality characteristics of the February 2017 Pond 5 discharge water are presented in Table 1. The TDS concentrations of the Pond 5 discharges exceeded the State standard for irrigation use. However, because of the low flow rate (5 gpm), the quantity of TDS loading to surface water in Kanab Creek was small. The pH levels of the February Pond 5 discharge waters during 2017 were within the UPDES limits of 6.5 to 9.0. The anomalous precipitation and snowmelt conditions experienced at the mine site during 2017 likely influenced the water quantity and quality and characteristics of the Pond 5 UPDES discharges during 2017.

Potential Impacts to Wildlife

There are no indications that any impacts to wildlife within the designated AVF occurred as a result of the discharge of waters from the Coal Hollow Mine during 2017. The stream restoration project on Kanab Creek within the designated AVF described above should improve wildlife habitat within the riparian ecosystem along Kanab Creek.

Based on these considerations, it is our finding that there were no appreciable impacts to the designated AVF on Kanab Creek resulting from the intermittent discharge of water from the Coal Hollow Mine during 2017.

Please feel free to contact me should you have any questions in this regard.

Sincerely,

Erik C. Petersen, P.G.
Principal Hydrogeologist
Utah PG #5373615-2250

Table 1 UPDES water quality and quantity for 2017.

Pond	Date	Flow (gpm)	O&G (mg/L)	Fe(t) (mg/L)	TSS (mg/L)	TDS (mg/L)	pH (lab)	Se(d)
Pond 1	1/10/2017	38	< 5	0.41	17	820	7.9	0.0015
Pond 1	1/16/2017	6.1	< 5	0.25	22	1,420	7.5	0.0041
Pond 1	2/8/2017	20.3	< 5	0.85	41	1,140	7.8	0.0027
Pond 1	2/15/2017	4	< 5	0.31	10	948	7.8	0.0027
Pond 1	2/22/2017	3.4	< 5	0.13	8	976	8	0.002
Pond 1	3/1/2017	1.8	< 5	0.17	9	936	7.8	0.0021
Average		**12**	**ND**	**0.35**	**18**	**1,040**	**7.8**	**0.0025**
Pond 1B	1/20/2017	5.5	< 5	0.1	6	1,360	7.8	0.0045
Pond 1B	2/1/2017	6.5	< 6	1.06	62	1,640	7.9	0.0042
Pond 1B	2/1/2017	6.5	< 5	0.51	8	532	8	0.0015
Pond 1B	2/8/2017	65	< 5	9.7	742	840	8	0.0015
Pond 1B	2/10/2017	33.3	< 5	0.72	21	696	7.8	0.0012
Pond 1B	2/15/2017	3	< 5	0.45	9	852	7.9	0.0019
Pond 1B	2/22/2017	3.7	< 5	0.4	32	1,960	7.9	0.0038
Average		**18**	**ND**	**1.85**	**126**	**1,126**	**7.9**	**0.0027**
Pond 2	1/10/2017	18	< 5	0.36	5	676	8.2	0.0016
Pond 2	1/16/2017	4	< 5	0.07	<4	648	7.9	0.0018
Pond 2	2/1/2017	4	< 5	0.47	9	668	8	0.0016
Pond 2	2/8/2017	14.1	< 5	0.3	9	996	7.9	0.0026
Pond 2	2/15/2017	3.4	< 5	0.15	6	712	7.9	0.0026
Pond 2	2/22/2017	2.2	< 5	0.35	9	676	8.1	0.0019
Pond 2	3/1/2017	0.95	< 5	0.22	14	704	8.2	0.0023
Average		**7**	**ND**	**0.27**	**8**	**726**	**8.0**	**0.0021**
Pond 3	2/1/2017	50	< 6	0.15	6	1,990	8	0.0117
Pond 3	2/10/2017	71	< 5	17.6	1180	908	7.9	0.0031
Pond 3	2/15/2017	50	< 5	0.8	17	652	8.1	0.0034
Pond 3	2/22/2017	60	25	0.36	22	820	8.3	0.0039
Pond 3	3/1/2017	50	< 5	0.21	13	960	8.1	0.0051
Pond 3	3/17/2017	50	< 5	0.81	58	1,140	8.2	0.0049
Pond 3	4/5/2017	50	5	0.19	14	1,220	8.3	0.0057
Pond 3	4/12/2017	50	< 5	0.04	8	1,290	8.6	0.005
Pond 3	6/9/2017	50	< 3	0.44	9	680		
Average		**53**	**ND**	**2.29**	**147**	**1,073**	**8.2**	**0.0054**
Pond 4	1/16/2017	17	< 5	0.7	38	208	7.4	0.0006
Pond 4	2/1/2017	10	< 5	0.43	10	276	7.9	0.0009
Pond 4	2/8/2017	11.2	< 5	0.03	< 4.	476	7.9	0.001
Pond 4	2/22/2017	22	< 5	0.25	12	384	8.4	0.001
Pond 4	3/17/2017	40	< 5	0.24	12	556	8.7	0.0008
Average		**20**	**ND**	**0.33**	**18**	**380**	**8.1**	**0.00086**
Pond 5	2/8/2017	7.2	< 5	0.49	16	2,280	7.9	0.0069
Pond 5	2/15/2017	6.2	< 6	0.1	9	1,890	7.9	0.0049
Pond 5	2/24/2017	1.2	< 6	0.04	10	2,220	8.2	0.0047
Average		**5**	**ND**	**0.21**	**12**	**2,130**	**8.0**	**0.0055**