

APPENDIX 5-12

HYDROLOGY AND RUNOFF CONTROL

NORTH LEASE AREA

COAL HOLLOW MINE



DECEMBER 2015

(REVISED APRIL 1, 2016)

To Whom it May Concern:

I, Dan W. Guy, Registered Professional Engineer, State of Utah No. 154168, have completed 3 construction inspections on the Alton Coal Development, LLC, North Private Lease Sediment Pond No. 5. The inspection dates and results are as follows:

- 3/11/16 - Pond staking is complete. Silt fence is installed. Beginning of topsoil removal.
- 3-15/16 - Topsoil removal complete. Beginning of pond excavation.
- 3/31/16 - Final inspection. As-built survey completed this date.

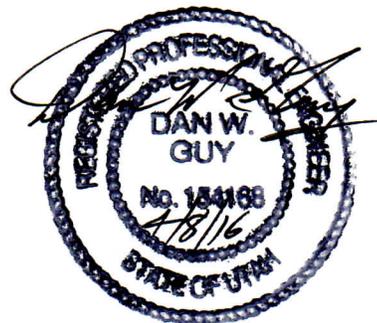
Minor items needing correction during the final inspection were completed prior to the final survey of the pond. The as-constructed stage-volume data was supplied to me on 4/1/16. At that time, I informed the Alton Coal personnel that the pond had adequate volume and based on my inspection, I would certify it as such. I provided a statement of certification in revised Appendix 5-12, as of that date. I also received the as-constructed Pond 5 Drawing 5-67A and certified it as of that date.

I hereby certify that the above inspections were completed by me during the construction of Sediment Pond No. 5.



Dan W. Guy

April 8, 2016



To Whom it May Concern:

I, Dan W. Guy, Registered Professional Engineer, State of Utah No. 154168, have completed 3 construction inspections on the Alton Coal Development, LLC, North Private Lease Sediment Pond No. 6. The inspection dates and results are as follows:

- 3/11/16 - Pond staking is complete. Silt fence is installed. Topsoil removal under way.
- 3-15/16 - Topsoil removal complete. Pond excavation under way.
- 3/31/16 - Final inspection. As-built survey completed this date.

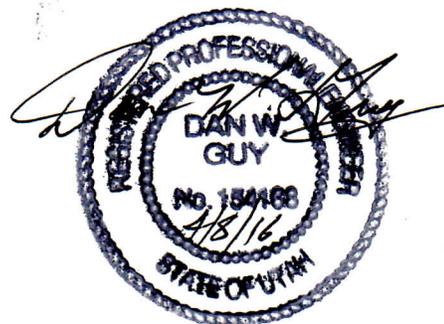
Minor items needing correction during the final inspection were completed prior to the final survey of the pond. The as-constructed stage-volume data was supplied to me on 4/1/16. At that time, I informed the Alton Coal personnel that the pond had adequate volume and based on my inspection, I would certify it as such. I provided a statement of certification in revised Appendix 5-12, as of that date. I also received the as-constructed Pond 6 Drawing 5-68A and certified it as of that date.

I hereby certify that the above inspections were completed by me during the construction of Sediment Pond No. 6.



Dan W. Guy

April 8, 2016





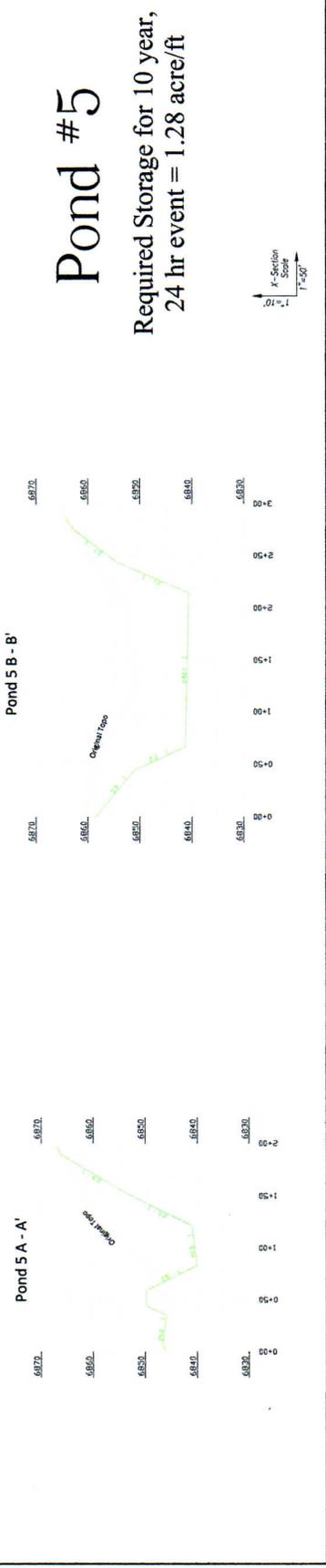
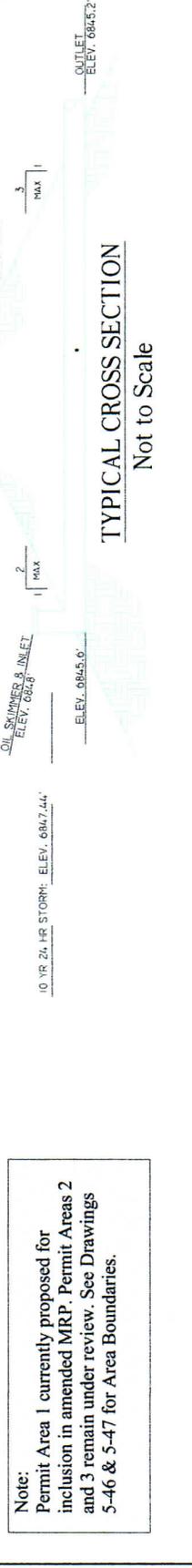
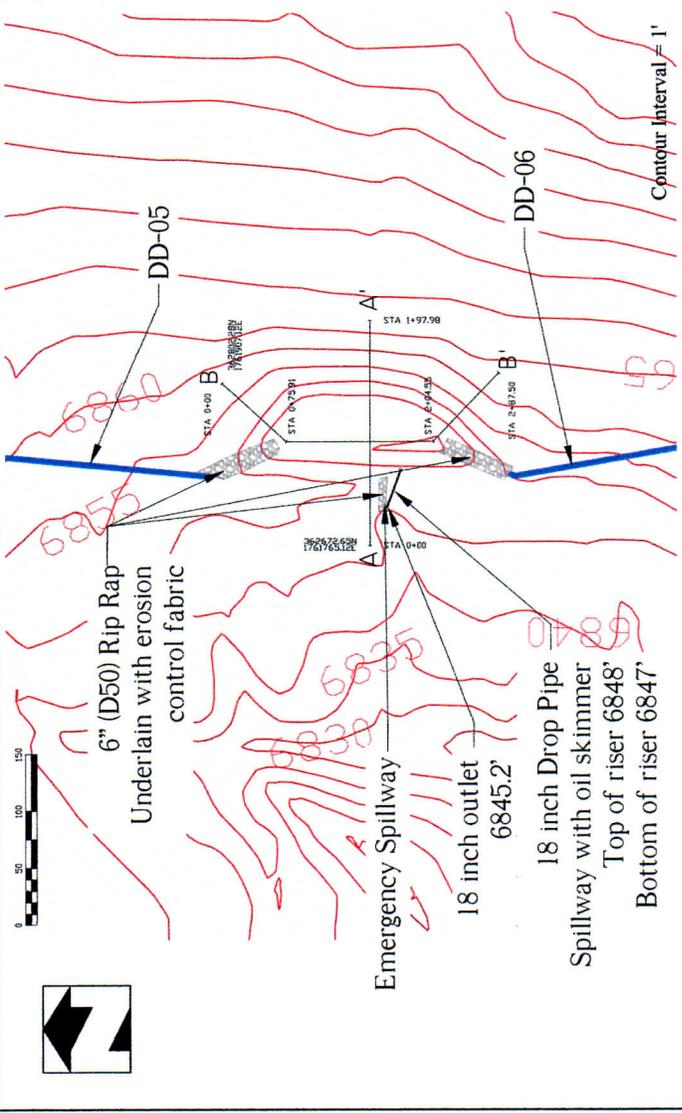
AS-BUILT DETAILS
 IMPONDMENT 5
 SEDIMENT
 PROJECT
 ALTON, UTAH
 DRAWING: 5-67A

REVISIONS	
DATE:	XX/XX/XX
BY:	XX

DRAWN BY:	A. CHRISTENSEN
CHECKED BY:	DG
DRAWING:	5-67A
DATE:	3/31/2016
SCALE:	1" = 50'
SHEET:	1400
JOB NUMBER:	1400

As-Built Pond Storage Volumes

Sediment Control Structure No. 5				
Water Elev (ft)	Area (Acres)	Average Area (Acre-ft)	Volume Accumulated (Acre-ft)	Stage
6840.00	0.010	-	-	Bottom Pond
6841.00	0.103	0.057	0.057	
6842.00	0.137	0.120	0.176	
6843.00	0.161	0.149	0.325	60% Sediment Cleanup
6844.00	0.184	0.172	0.497	Max Sediment Level
6845.00	0.207	0.195	0.692	
6846.00	0.232	0.220	0.912	
6847.00	0.259	0.246	1.158	
6848.00	0.292	0.276	1.434	Principle Spillway
6849.00	0.329	0.310	1.744	Emergency Spillway
6850.00	0.363	0.346	2.090	Top of Dike



Note:
 Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review. See Drawings 5-46 & 5-47 for Area Boundaries.

