C/007/016 Incoming ✓

#5189

Chris D. Hansen
Dir. Of Regulatory Compliance
225 North 5th Street, Suite 900
Grand Junction, CO 81501
(970) 261-1425
Fax (970) 263-5161

RECEIVED
MAY 16 2016
DIV. OF OIL, GAS & MINING

May 16, 2016

Mr. Daron R. Haddock, Coal Environmental Manager
Division of Oil, Gas, and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Resubmittal of As-Builts of the Repaired Reclamation Channel SD-6, Gordon Creek 2, 7, and 8 Mines, Permit # C/007/0016, Task ID 5062

Dear Mr. Haddock:

Please find enclosed with this letter completed copies of C1 and C2 forms and four clean copies of added text, Plate 3-13, and the addendum to Appendix 7-1 that is titled "As-Builts of the Repaired Reclamation Channel SD-6". This information and permit text modification is being provided in response to Task ID 5062, the Division's review of and deficiencies with a submittal made by Bowie Resources Partners, LLC in December 2015. If you have any questions regarding the information provided in this letter, please give me a call at (970) 261-1425.

Sincerely,

Chris D. Hansen
Director of Regulatory Compliance
Bowie Resource Partners, LLC

APPLICATION FOR COAL PERMIT PROCESSING

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

Permittee: Canyon Fuel Company, LLC
Mine: Gordon Creek 2, 7 & 8 Mines **Permit Number:** C/007/0016
Title: Resubmittal of As-Builts of the Repaired Reclamation Channel SD-6
Description, Include reason for application and timing required to implement:
Respond to Division's review and deficiencies noted in first submittal of SD-6 as-builts

Instructions: If you answer yes to any of the first eight (gray) 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?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) 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.

Chris D. Hansen
Print Name

Chris D. Hansen Proj. Mgr. 5-13-16
Sign Name, Position, Date

Subscribed and sworn to before me this 13th day of May, 2016

Kathleen Widner
Notary Public

My commission Expires: 8-3, 2018

Attest: State of COLORADO } ss:
County of MESA

KATHLEEN WIDNER
Notary Public
State of Colorado
Notary ID 19944011144
My Commission Expires Aug 3, 2018

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining
		RECEIVED MAY 16 2016 DIV. OF OIL, GAS & MINING

Form DOGM- C1 (Revised March 12, 2002)

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

Permittee: Canyon Fuel Company, LLC
Mine: Gordon Creek 2, 7 & 8 Mines **Permit Number:** C/007/0016
Title: Resubmittal of As-Builts of the Repaired Reclamation Channel SD-6

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	Add Cover Page and As-Built Report to back of Addendum to Appendix 7-1
☒ Add	☐ Replace	☐ Remove	Add page to Chapter 3 Table of Contents
☐ Add	☐ Replace	☐ Remove	Add pages 3- 78 through 3-80
☐ Add	☐ Replace	☐ Remove	Add Plate 3-13 2015 Channel Repair Disturbance Areas
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining RECEIVED MAY 16 2016 DIV. OF OIL, GAS & MINING

ADDENDUM TO APENDIX 7-1

AS-BUILT REPORT FOR THE

LOWER SECTION OF RECLAMATION CHANNEL SD-6

(To be placed at the back of the addendum)

EarthFax Engineering Group, LLC
7324 South Union Park Avenue, Suite 100, Midvale, Utah 84047 • 801.561.1555 • FAX 801.561.1861

EarthFax

December 21, 2015

Chris Hansen
Bowie Resource Partners, LLC
225 N 5th Street, Suite 900
Grand Junction, CO 81501

Subject: Gordon Creek Channel SD-6 As-Built Information

Dear Chris:

Attached please find the results of our survey of the re-constructed reclamation channel SD-6 at the Gordon Creek 2,7,8 Mine. Survey data were collected using a Pentax AP-124 level, with measuring tapes stretched down the profile and across the sections of the channel. A bench mark was established by driving a nail in the base of an aspens tree on the east side of the channel approximately 150 feet downstream from the head of the channel.

Survey data collected in the field are provided in Attachment A. This attachment also contains printouts of the channel profile and cross sections collected from points 50, 100, and 150 downstream from the head of the channel. The channel was designed with a trapezoidal shape, having a 5-foot bottom width with 2H:1V side slopes and a minimum depth of 1.5 feet. At this design, the channel would have a cross sectional area of 12.0 ft^2. The field survey indicates that the channel has cross sectional areas of 16.1 ft^2 at station 0+50, 32.2 ft^2 at station 1+00, and 45.4 ft^2 at station 1+50 (with station numbering beginning at the head of the reclaimed channel). Surveyed bank slopes range from 1.9H:1V to 7.5H:1V. Thus, the surveyed cross sections generally meet or exceed the design requirements.

The adequacy of the constructed channel to convey the peak flow resulting from the 100-year, 6-hour storm event was evaluated using FlowMaster and the design peak flow of 7.08 cfs. The results of this evaluation are provided in Attachment B and summarized in Table 1. The estimated flow depths and velocities are all within acceptable ranges for the cross sections and riprap used to armor the channel.

Channel SD-6 was originally designed to be armored with riprap having a median diameter of 9 inches. Following erosion of this lining in the steeper portion of the channel during a high-intensity thunderstorm in the summer of 2015, this riprap in the lower section was designed to have a median diameter of 18 inches. My visual observations during the December 2015 survey indicated that the installed riprap adequately meets the design.

I have appreciated the opportunity to be of assistance. Please contact me if you have any questions.

Sincerely,

Richard B. White, P.E.
President

Attachments

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
21 Dec 2015
STATE OF UTAH

TABLE 1

Flow Depth and Velocity from the
100-year, 6-hour Precipitation Event[a]

Cross Section Station	Flow Depth (ft)	Velocity (ft/s)
0+50	0.19	4.89
1+00	0.26	5.66
1+50	00.24	5.73

[a]Based on a design flow of 7.07 cfs

ATTACHMENT A

Survey Data

SD-6 as-constructed channel

Survey Date: 3-Dec-15
Project: UC-1489-02

Benchmark elevation (ft): 100
Rod reading at Benchmark (ft): 12.73
New Bmark at Station 170 (ft): 2.22

Channel Profile:

Station (ft)	Channel Bottom (ft)		Channel Slope (ft/ft)
	Rod Reading	Elevation	
0	-0.72	113.45	
10	0.64	112.09	0.136
20	1.12	111.61	0.048
30	1.86	110.87	0.074
40	2.69	110.04	0.083
50	2.94	109.79	0.025
60	3.84	108.89	0.090
70	4.51	108.22	0.067
80	5.87	106.86	0.136
90	6.91	105.82	0.104
100	8.69	104.04	0.178
110	10.10	102.63	0.141
120	11.35	101.38	0.125
130	13.53	99.20	0.218
140	16.15	96.58	0.262
150	19.03	93.70	0.288
160	22.28	90.45	0.325
170	15.68	86.54	0.391
180	19.10	83.12	0.342
190	22.49	79.73	0.339

Channel cross sections
(Station 0+00 at right-hand side, looking upstream)

Station 0+50:

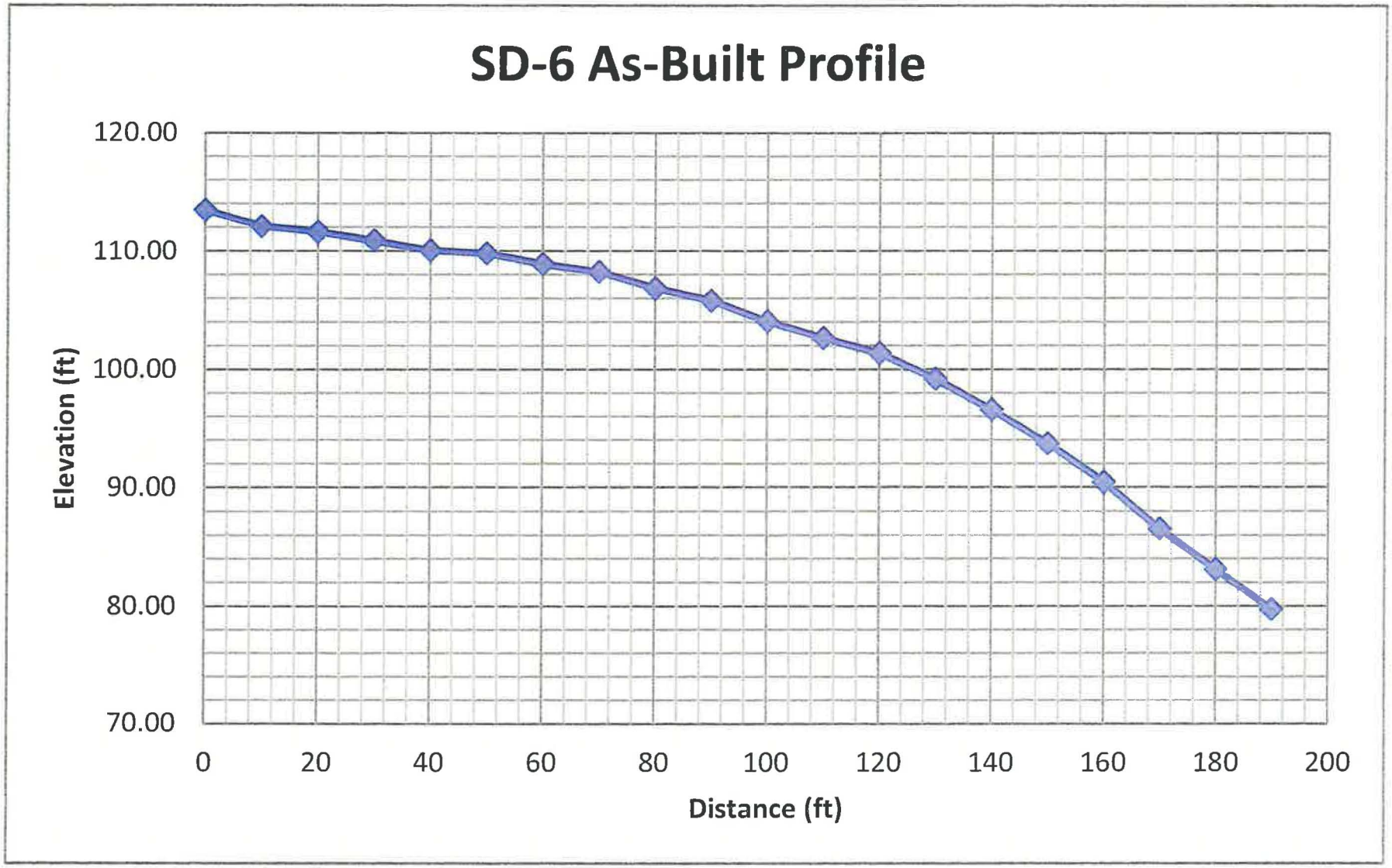
Distance (ft)	Channel Bottom (ft)		Bank Slope (H:V)
	Rod Reading	Elevation	
0	1.93	110.80	
6.5	2.80	109.93	7.47
14.7	2.91	109.82	
19.7	2.60	110.13	
27.5	1.49	111.24	7.03

Station 1+00:

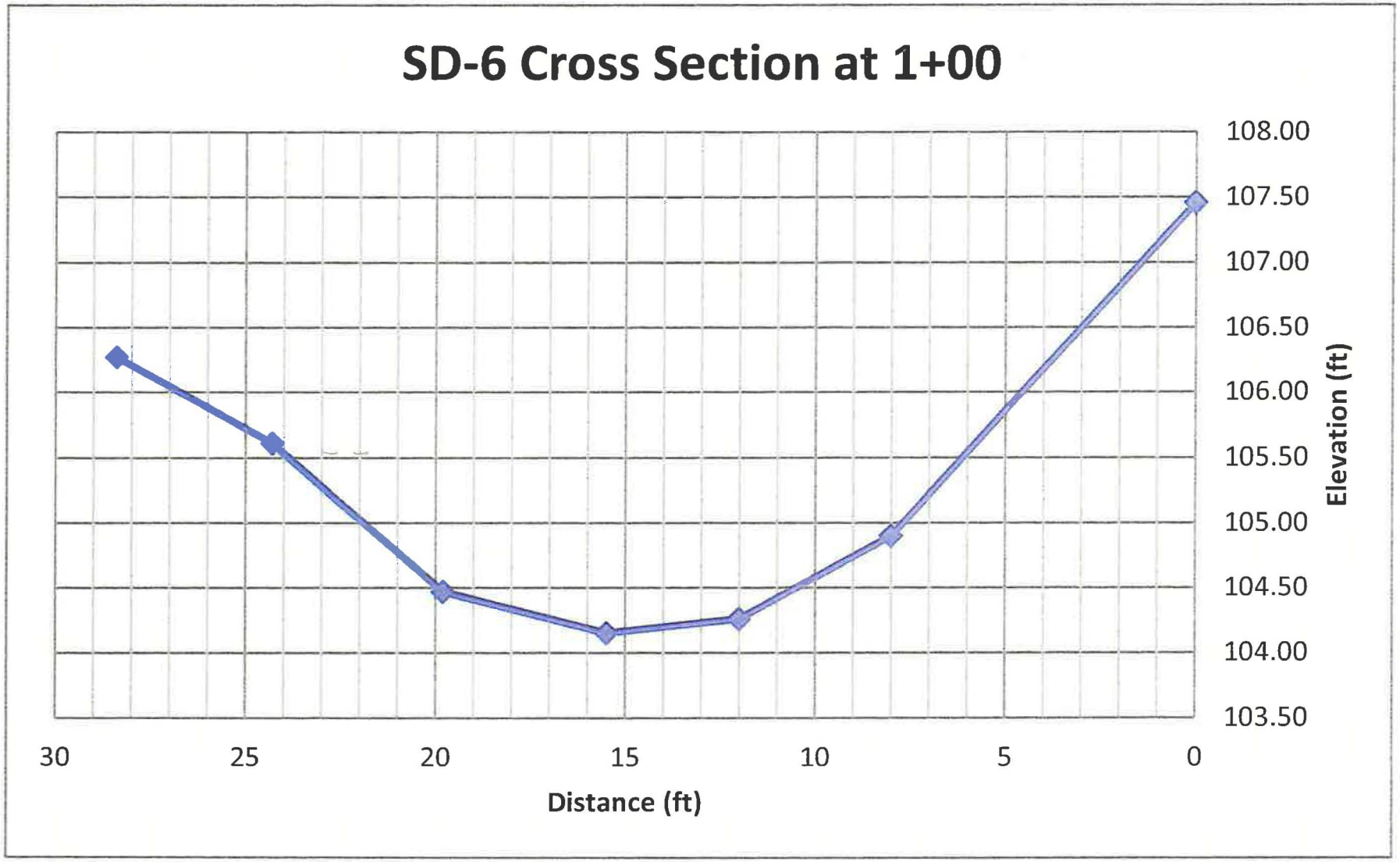
Distance (ft)	Channel Bottom (ft)		Bank Slope (H:V)
	Rod Reading	Elevation	
0	5.27	107.46	
8	7.83	104.90	3.13
12	8.47	104.26	
15.5	8.58	104.15	
19.8	8.26	104.47	
24.3	7.12	105.61	
28.4	6.46	106.27	6.21

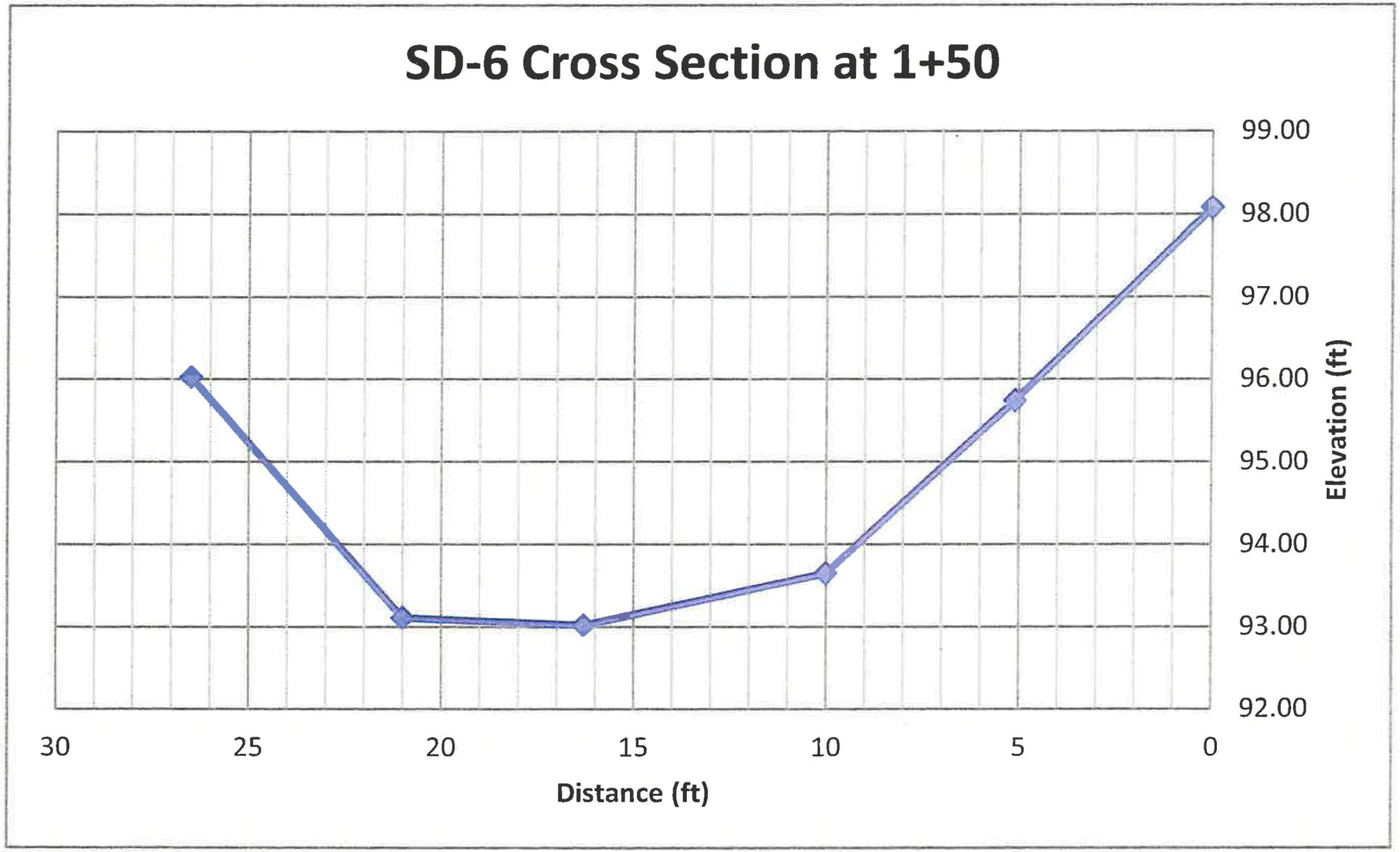
Station 1+50:

Distance (ft)	Channel Bottom (ft)		Bank Slope (H:V)
	Rod Reading	Elevation	
0	14.65	98.08	
5.1	16.99	95.74	2.18
10	19.08	93.65	
16.3	19.71	93.02	
21	19.62	93.11	
26.5	16.71	96.02	1.89


SD-6 As-Built Profile
120.00
110.00
100.00
90.00
80.00
70.00
Elevation (ft)
0
20
40
60
80
100
120
140
160
180
200
Distance (ft)

SD-6 Cross Section at 0+50
111.50
111.00
110.50
110.00
109.50
Elevation (ft)
30
25
20
15
10
5
0
Distance(ft)


SD-6 Cross Section at 1+00
108.00
107.50
107.00
106.50
106.00
105.50
105.00
104.50
104.00
103.50
Elevation (ft)
30
25
20
15
10
5
0
Distance (ft)


SD-6 Cross Section at 1+50
99.00
98.00
97.00
96.00
95.00
94.00
93.00
92.00
Elevation (ft)
30
25
20
15
10
5
0
Distance (ft)

ATTACHMENT B

Channel Adequacy Evaluation

SD-6 Cross Secton at Station 0+50
Worksheet for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Sec
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Slope	288000	ft/ft
Discharge	7.08	cfs

Options	
Current Roughness Methc	ved Lotter's Method
Open Channel Weighting	ved Lotter's Method
Closed Channel Weighting	Horton's Method

Results		
Mannings Coefficier	0.040	
Water Surface Elev	110.01	ft
Elevation Range	9.82 to 111.24	
Flow Area	1.4	ft²
Wetted Perimeter	11.93	ft
Top Width	11.91	ft
Actual Depth	0.19	ft
Critical Elevation	110.12	ft
Critical Slope	0.040214	ft/ft
Velocity	4.89	ft/s
Velocity Head	0.37	ft
Specific Energy	110.38	ft
Froude Number	2.47	
Flow Type	Supercritical	

Roughness Segments

Start Station	End Station	Mannings Coefficient
0+00	0+28	0.040

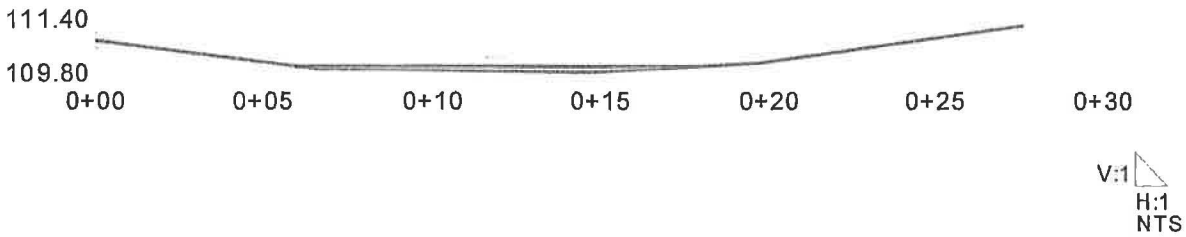
Natural Channel Points

Station (ft)	Elevation (ft)
0+00	110.80
0+07	109.93
0+15	109.82
0+20	110.13
0+28	111.24

SD-6 Cross Section at Station 0+50
Cross Section for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Sec
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Section Data		
Mannings Coefficie	0.040	
Slope	0.288000	ft/ft
Water Surface Elev	110.01	ft
Elevation Range	9.82 to 111.24	
Discharge	7.08	cfs



SD-6 Cross Secton at Station 1+00
Worksheet for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Se(
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Slope	288000	ft/ft
Discharg(	7.08	cfs

Options	
Current Roughness Methc	ved Lotter's Method
Open Channel Weighting	ved Lotter's Method
Closed Channel Weightin(	Horton's Method

Results		
Mannings Coefficie	0.041	
Water Surface Elev	104.41	ft
Elevation Range	1.15 to 107.46	
Flow Area	1.3	ft²
Wetted Perimeter	7.98	ft
Top Width	7.95	ft
Actual Depth	0.26	ft
Critical Elevation	104.55	ft
Critical Slope	0.039053	ft/ft
Velocity	5.66	ft/s
Velocity Head	0.50	ft
Specific Energy	104.91	ft
Froude Number	2.51	
Flow Type	Supercritical	

Roughness Segments

Start Station	End Station	Mannings Coefficient
0+00	0+28	0.041

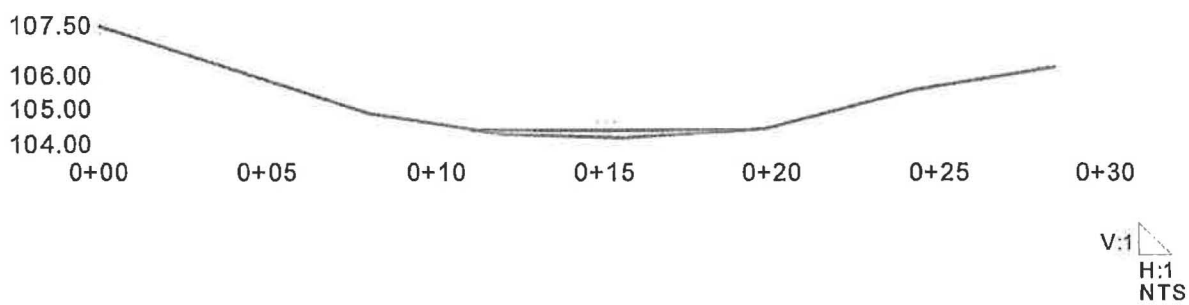
Natural Channel Points

Station (ft)	Elevation (ft)
0+00	107.46
0+08	104.90
0+12	104.26
0+16	104.15
0+20	104.47
0+24	105.61
0+28	106.27

SD-6 Cross Section at Station 1+00
Cross Section for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Sec
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Section Data		
Mannings Coefficiei	0.041	
Slope	0.288000	ft/ft
Water Surface Elev	104.41	ft
Elevation Range	1.15 to 107.46	
Discharge	7.08	cfs



SD-6 Cross Secton at Station 1+50
Worksheet for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Sec
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Slope	288000	ft/ft
Discharge	7.08	cfs

Options	
Current Roughness Method	ved Lotter's Method
Open Channel Weighting	ved Lotter's Method
Closed Channel Weighting	Horton's Method

Results		
Mannings Coefficient	0.042	
Water Surface Elev	93.26	ft
Elevation Range	.02 to 98.08	
Flow Area	1.2	ft²
Wetted Perimeter	7.45	ft
Top Width	7.40	ft
Actual Depth	0.24	ft
Critical Elevation	93.40	ft
Critical Slope	0.040524	ft/ft
Velocity	5.73	ft/s
Velocity Head	0.51	ft
Specific Energy	93.77	ft
Froude Number	2.47	
Flow Type	Supercritical	

Roughness Segments

Start Station	End Station	Mannings Coefficient
0+00	0+27	0.042

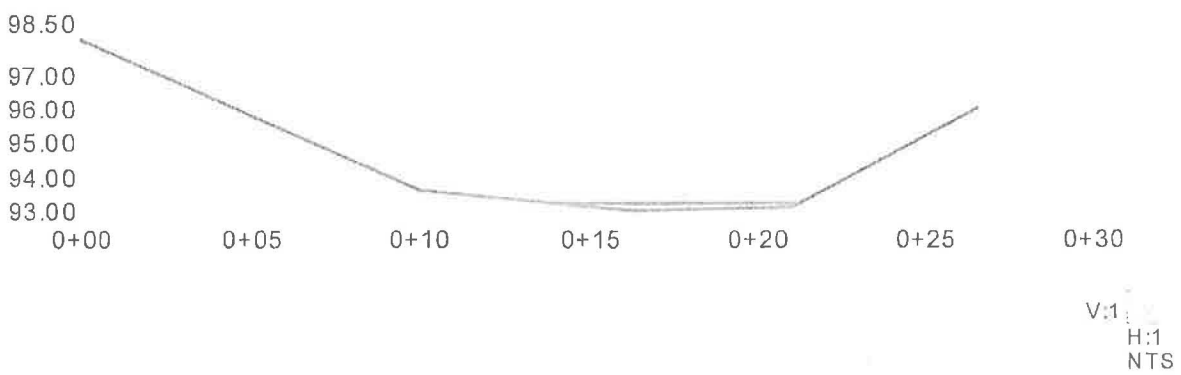
Natural Channel Points

Station (ft)	Elevation (ft)
0+00	98.08
0+05	95.74
0+10	93.65
0+16	93.02
0+21	93.11
0+27	96.02

SD-6 Cross Section at Station 1+50
Cross Section for Irregular Channel

Project Description	
Worksheet	SD-6 Cross Sec
Flow Element	Irregular Chann
Method	Manning's Form
Solve For	Channel Depth

Section Data		
Mannings Coefficier	0.042	
Slope	0.288000	ft/ft
Water Surface Elev	93.26	ft
Elevation Range	.02 to 98.08	
Discharge	7.08	cfs



3.6 Repair of Ditches and Channels Post-Reclamation 2015

3.6 Repair of Ditches and Channels Post-Reclamation 2015

A significant precipitation event occurred in September 2014 within the Gordon Creek drainage, including the Gordon Creek tributaries within the Gordon Creek 2, 7 and 8 Mines area. Since the mine is in reclamation, no weather station is maintained at the site. However, evidence of the depth and width of flood flows within the reclamation channels suggested the storm event was greater than the required design flow. Similar damage occurred at other active and reclaimed sites in the Book Cliffs coal fields.

The damage to the channels was discovered in October 2014, too late to effectively reconstruct the channels due to snow cover and frozen ground. The operator did manage to place temporary silt fences in select locations to control erosion through the winter and spring.

Repairs to the reclaimed channels were initiated in June 2015. All repairs were done in accordance with the existing approved permit. The contractor replaced filter material and rip rap in the reclaimed section of Bryner Canyon creek from a point below the confluence of the main channel with the Right Fork of Bryner Canyon downstream to the confluence of the main channel with channel SD-4. Similar repairs were performed on the lower sections of SD-4. Also, the majority of channel SD-6 was repaired with new filter material and riprap. Finally, a short section of the main Bryner Canyon creek channel within the area of the reclaimed upper Gordon Creek 2, 7 and 8 sediment ponds was repaired by replacing filter material and riprap.

The contractor transported filter material and riprap from their borrow areas to the county road turnaround. The contractor created access from the boundary gate to channel SD-6 via a temporary road by temporarily removing topsoil and vegetation and windrowing it on the north side of the temporary road. This work was accomplished using a large rubber tired front-end loader. Ten-wheel end-dump trucks were loaded at the county road turnaround with filter material and riprap and the material transported to the SD-6 channel area. From this location the filter material and riprap that was used in the repair of the upper section of the main Bryner Canyon creek and SD-4 channels were transported to those repaired sections using the front-end loader. A trackhoe excavator was used to place material in the repaired channel sections.

After repair of the upper section of the main Bryner Canyon creek and SD-4 channels, the trackhoe retreated to the SD-6 channel area. Those areas where minor disturbance was created by the travel of the trackhoe and front-end loader were deep gouged, seeded by hand broadcasting, and weed-free straw crimped into the soils using the trackhoe bucket.

Following the reconstruction of SD-6, the trackhoe was used to replace the topsoil previously removed to create the temporary access road, deep gouge the disturbed areas, and crimp straw into the soils following seeding. The row of large rocks that were originally piled west of the gate at the end of the county road to impede vehicle access were replaced.

A second significant rainfall event occurred in the late summer of 2015 that resulted in the lower portion of the SD-6 channel being eroded and riprap displaced. EarthFax Engineering Group, LLC was employed to evaluate the original channel design and recommend any changes as necessary. The

results of their evaluation are included as an Addendum to Appendix 7- 1. It was determined that two layers of filter material would be required before placement of riprap with a D_{50} equal to 18-inches.

The repair work on the SD-6 channel was completed by November 2015. Similar to the repair work completed in June of 2015, a temporary access road was constructed from the gate to SD-6 by removing the topsoil using a rubber-tired front-end loader. Again, material was staged from the county road turnaround to the channel using ten-wheel end dump trucks and the front-end loader. A trackhoe excavator was used to place the filter and riprap material. The trackhoe was used to reclaim the temporary road using the same methods employed during the June 2015 repair work.

The areas disturbed and reclaimed as part of the channel repair efforts in 2015 are illustrated on Plate 3-13, titled "2015 Channel Repair Disturbed Areas". Plate 3-13 was created by combining survey data obtained at the mine in May 2016 using survey-grade GPS equipment, AutoCAD and Google Maps. The areas of disturbance have been divided into six areas. The areas are described as follows:

Area 1 – Road between rock barrier behind gate to SD-6
Area 2 – Staging and access area east side of SD-6
Area 3 – Access area west side of SD-6
Area 4 – Access Trail between SD-6 and SD-4
Area 5 - Staging and access area for confluence of Bryner Canyon and SD-4
Area 6 – Access Trail from SD-4 to confluence of Bryner Canyon and Right Fork of Bryner Canyon (Area 7)
Area 7 – Trackhoe and Front-end Loader access areas at end of Area 6

Below is a table listing the calculated disturbance area acreages per the areas described above. The sizes of Areas 2, 3, 5 and 7 were determined using survey data and AutoCAD area calculations. Areas 1, 4, and 6 were determined using the May 2015 survey data and field measurements.

AREA	LENGTH X AVERAGE WIDTH (ft)	SQ FT	ACREAGE
1	345 X 20	6900	0.158
2	N/A	3090	0.071
3	N/A	1626	0.037
4	1289 X 17	21913	0.503
5	N/A	4286	0.098
6	375 X 10	3750	0.086
7	N/A	3845	0.088
TOTAL			1.041

The total reclaimed disturbed acreage for the Gordon Creek 2, 7 and 8 Mines is 34.15 acres. The total acreage related to the channel repairs completed in 2015 is 1.041 acres, or approximately 3 percent of the total reclaimed acreage.

Below is a copy of the seed mix that was used during the channel repair efforts. The mix includes seed that was available at the time of repair. Adequate seed from the first repair activity remained for use during the second repair work activity.

Gordon Creek 2/7/8

Purity	Mixture Contents	Origin	Germ/Hard
10.62%	Basin Wildrye, Trailhead	OR	94%
9.66%	Streambank Wheatgrass, sodar	WA	94%
9.11%	Slender Wheatgrass, First Strike	WA	96%
8.35%	Blue Elderberry, VNS	UT	45%
6.09%	Annual Sunflower, Native	UT	82%
6.01%	Antelope Bitterbrush, VNS	NV	83%
5.80%	Bluegrass, Kentucky, Parkland	WA	86%
5.54%	Indian Ricegrass, Rimrock	WA	90%
5.48%	Snake River Wheatgrass, Secar	WA	91%
5.31%	Cicer Milkvetch, VNS	MT	94%
4.11%	Curlleaf Mahogany, VNS	UT	81%
2.80%	Utah Northern Sweetvetch, Timp	CO	89%
2.71%	Alfalfa, Ladak	MT	92%
2.63%	Mountain Snowberry	UT	95%
1.26%	Prairie Aster, VNS	UT	53%
0.89%	Rocky Mountain Penstemon, Bandera	OR	93%
0.41%	Mountain Big Sagebrush, VNS	NV	82%

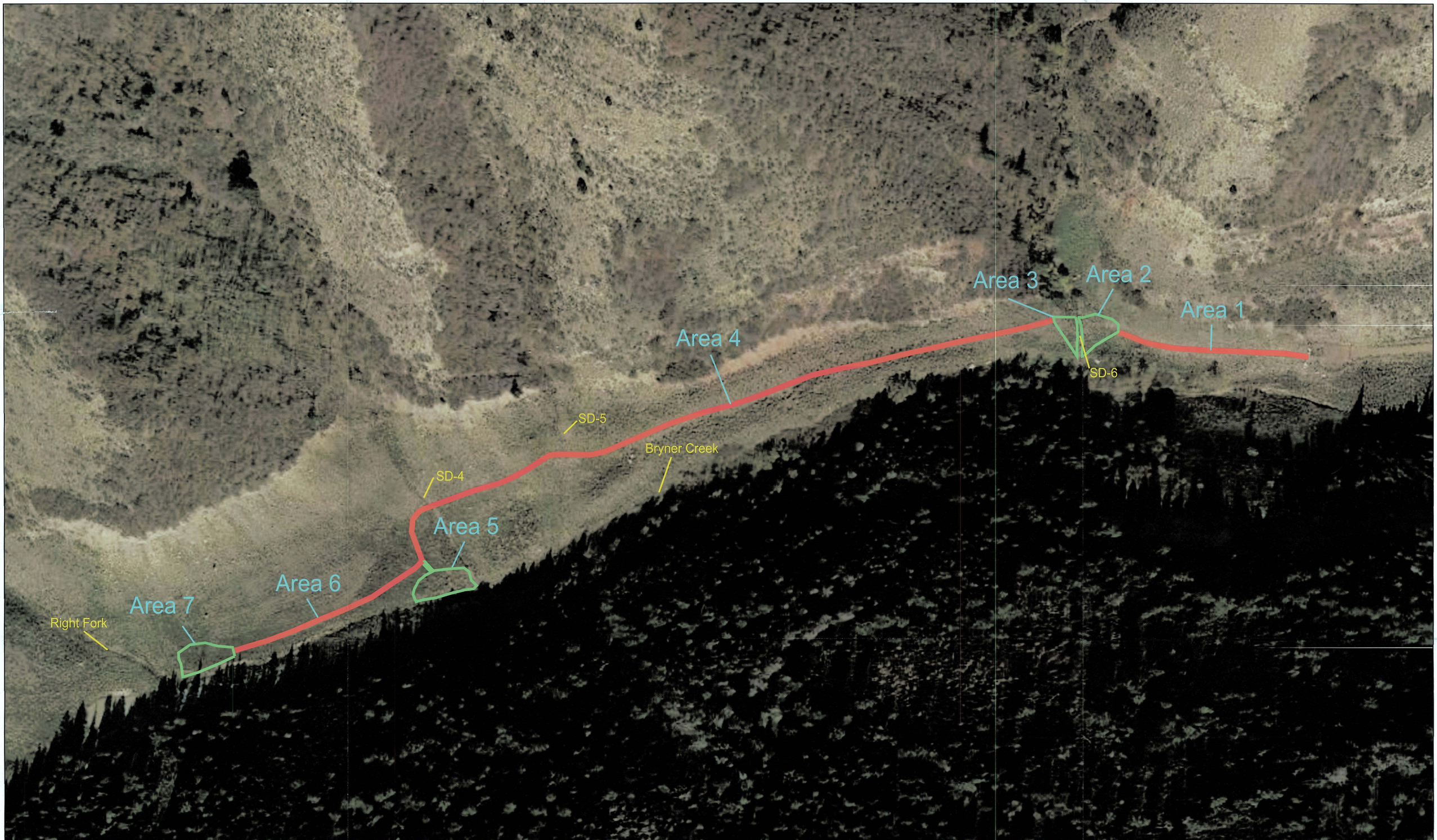
0.21% Crop
12.85% Inert
0.16% Weed,
No Noxious Found

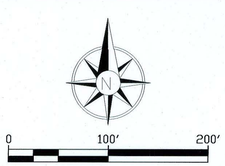
Oldest Test Date: 9/29/2014

Nelco Inc.
4520 South 100 West
Price, UT 84501

PO #8216
Lot #29231
Net Weight 30.06 Lbs.

Below is a copy of a typical tag removed from the bales of the weed-free straw that was used for mulch during the reseeding process.





REGISTERED PROFESSIONAL ENGINEER
No. 8781250-2202
CRAIG WILLIAM BROWN
STATE OF UTAH

RECEIVED
MAY 16 2016
DIV. OF OIL, GAS & MINING

Plate 3-13
2015 Channel Repair Disturbance Areas
Gordon Creek 2/7/8 Mines

Canyon Fuel Company, LLC

HCR 35 BOX380, HELPER, UT, 84526 435-448-2632	DATE: 05/11/16	CK.BY: CHansen	REVISION:
CAD FILE:	SCALE: FULL	DR.BY: BBailey	
DWG. NO.: 000			