



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203



RECEIVED

OCT 09 2010

DIVISION OF RECLAMATION
MINING AND SAFETY

SCANNED

REQUEST FOR FULL OR PARTIAL RELEASE OF PERMIT AREA/SURETY REDUCTION

Please indicate if you are requesting:

FULL/FINAL RELEASE OF ENTIRE PERMITTED AREA (per Rule 4.17)

☐

ACREAGE REDUCTION (PARTIAL RELEASE per Rule 4.17)

☐

M-1983-194
Completed!
0 Minor infractions

I wish to release _____ acres at this time.

You will need to submit with this request: a map showing the acreage to be released from the current permit and updated mining and reclamation plan maps that will accurately depict the new permit boundary if the release is approved.

SURETY (Bond) REDUCTION (per Rule 4.14)

☒

If you are requesting a surety (bond) reduction you will need to include with this request a new estimate of the actual cost to reclaim the site based on what it would cost an independent contractor to complete reclamation, including unit costs for reclamation activities as appropriate to the operation to comply with the provisions of Rule 3.1 and the Permit's approved Reclamation Plan.

File No.: M 1983-194

Site Name: Natural Soda Nahcolite Project

County: Rio Blanco

Permittee: Natural Soda LLC

Permittee Address: 3200 County Rd. 31

(Street Address)

Rifle

(City)

CO

(State)

81650

(Zip)

SR05
0 Violations!
ACY/thm



Operator (If Other than Permittee):

Permittee Representative:

Gerald Daub, Daub & Associates, Inc.

Certified Mail #

FedEx # 7766 0589 3961 - Tracking #

In accordance with Rule 4.17.1(2) the Operator shall include the names, addresses and phone numbers of all owners of record to the affected land. Please attach additional sheets for this information if required.

Name

Address

Phone Number

BLM White River Field Office

220 E. Market Street Meeker, CO 81641

(303) 239-3923

In accordance with Rule 4.17.1(4), if requesting a partial acreage release the Operator or their agent MUST sign that they have complied with the following statement: "All applicable portions of the Reclamation Plan requirements have been satisfied in accordance with these Rules and all applicable requirements under the Act."


Signature of Permittee, Operator or their authorized agent

10/8/19
Date

Important: In accordance with Rules 4.14.2(a) and 4.17.1(3) This release request must be submitted to the Division via certified mail and separate from any other correspondence to the Division.

DAUB & ASSOCIATES, INC.



1985 ½ SOUTH BROADWAY
GRAND JUNCTION, CO 81507-9649
(970) 254-1224
FAX (970) 242-8438
email: gjdaub@daubandassociates.com
www.daubandassociates.com

October 8, 2019

Division of Reclamation, Mining and Safety
Attn: Minerals Division
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Natural Soda LLC Nahcolite Project Permit No. M-1983-194 Request for Surety (Bond) Reduction

Natural Soda LLC (NS) hereby requests a reduction of the currently held surety amount of \$7,521,565.00 USD to \$3,671,965.00 USD. This surety reduction of \$3,849,600.00 results from NS's decision to not pursue a planned plant expansion at this time (per TR-36). This requested surety update was preceded by a DRMS site visit to Natural Soda location and is reflected by the approved DRMS TR-44 and CIRCES documents (October 7, 2019) which indicate an estimate of current independent contractor costs for reclamation. Per DRMS rules 4.17.1 and 4.17.4 this surety reduction request will be sent by tracked FedEx overnight delivery and includes:

- This signed notice stating that all applicable portions of the Reclamation Plan requirements have been satisfied as relating to this requested surety reduction
- The name, address, and phone number of the affected land owner
- Details relating to a Public Notice publication to include:
 - Name and location of the mining operation
 - Brief statement concerning this Surety Reduction Request
 - Information relating to public comment opportunities
 - NS shall provide proof of newspaper publication notice per Rule 1.6.2(1)(a)(ii) via return receipt of Certified mailing

Please find attached:

- 1) DRMS Form - Request for Surety Reduction
- 2) The planned newspaper public notice (the newspaper public notice will be sent to the DRMS subsequent to publication on October 10, 2019)
- 3) DRMS TR-44 Approval Letter and CIRCES

Should you have any questions or comments, please contact me at (970) 254-1224 or (970) 216-1010 (c), or Kirk Daehling at (888) 464-7632 ext. 114.

Regards,

Gerald J. Daub, PG, CPG
President
Daub & Associates, Inc.

Cc: Kirk Daehling w/enc
President
Natural Soda LLC

Kent Walters w/enc
Bureau of Land Management (WRFO)

Amy Yeldell DRMS (email)
Colorado Division of Reclamation, Mining and Safety

File

Natural Soda LLC (NS) has filed a request with The Colorado Division of Reclamation, Mining and Safety (DRMS) to reduce their required financial warranty amount from \$7,521,565.00 to \$3,671,965.00. A financial warranty of \$3,671,965.00 will cover all reclamation costs for the current land disturbance and infrastructure and reflects current NS operations. This will result in a reduction of the surety to NS in the amount of \$3,849,600.00. NS operates a sodium bicarbonate solution mining operation located approximately 25 miles West-southwest of Meeker, Colorado.

The Colorado Division of Reclamation, Mining and Safety has approved the NS Technical Revision 44, which was a recalculation of a more accurate required financial warranty, as of October 7, 2019. Any comments or questions should be addressed to the Division of Reclamation, Mining and Safety, 1313 Sherman St., Rm. 215, Denver, CO 80203.

Any comments concerning the financial warranty reduction request must be in writing and must be received by the Division of Reclamation, Mining and Safety by 4:00 p.m. on November 12, 2019.

Publish: October 10, 2019 Rio Blanco Herald Times, Meeker, Colorado.



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

October 7, 2019

Kirk Daehling
Natural Soda LLC
3200 CR 31
Rifle, CO 81650

RE: Nacholite Project, Permit No. M-1983-194, Technical Revision (TR-44) Approval

Dear Mr. Daehling:

On October 7, 2019 the Division of Reclamation, Mining, and Safety (Division) approved the Technical Revision request (TR-44) submitted on October 1, 2019, addressing the following:

Updating bonding figures in support of a future surety Reduction Request.

The terms of the TR-44 approved by the Division are hereby incorporated into Permit No. M-1983-194. All other conditions and requirements of the permit remain in full force and effect.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,

Amy Yeldell
Environmental Protection Specialist

Enclosures:

TR-44 Reclamation Cost Estimate
TR-44 Reclamation Cost Estimate- Changes to Bond

EC:

Travis Marshall, Senior EPS, Grand Junction DRMS
Paul Daggett, White River Field Office BLM
Gerry Deschaine, Natural Soda EH&S Manager
Jerry Daub, Consultant





COLORADO
**Division of Reclamation,
Mining and Safety**
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

October 7, 2019

Kirk Daehling
Natural Soda LLC
3200 CR 31
Rifle, CO 81650

RE: Nacholite Project, Permit No. M-1983-194, TR-44 Reclamation Cost Estimate-Changes to Bond

Dear Mr. Daehling:

This reclamation cost update was in response to the technical revision request (TR-44) which was submitted on October 1, 2019 and a site inspection conducted on October 3, 2019. The Division is mandated to recalculate the reclamation cost estimate to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated with technical revision (TR-44) as compared to previous technical revision (TR-43). This table does not account for price changes resulting from inflation or other RS Means cost changes. On July 1, 2019 the Division implemented it's second of four incremental increases.

Task	Form Used	Change	Justification
01a	Demo	-	Updated existing building dimensions Removed TR-36 features no longer to be constructed Updated pipeline inventory based on email average of 34,948 LF of 10". Removed electrical infrastructure to be removed by WREA Job task hours adjusted to reflect less work
02a	Borehole		Updated names accordingly
05a	Dozer	-	Updated per D&A Repose 46 ac of pads requiring reclamation (Disturbed and Interim Reclamation) 46 ac @ 24" (148,427 CY)



05b	Dozer	-	46 ac of pads @ 6" depth (37,527 CY)
05c	Reveg	-	Reveg 46 ac, updated seeding cost
Indirect			Overall job task hours decreased, less superintendent hours Higher engineering and reclamation % of contract based on \$2,500,000

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,



Amy Yeldell

Environmental Protection Specialist

COST SUMMARY WORK

Task description: TR-44 Updates

Site: Nahcolite Project

Permit Action: TR-44

Permit/Job#: M1983194

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 10/1/2019

County: Rio Blanco

Filename: M194-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo of Plant, pipelines, powerlines and parking lot	DEMOLISH	1	80.00	\$1,913,936
02a	Borehole P&A	BOREHOLE	1	610.00	\$600,185
03a	Regrade Process Ponds	DOZER	2	133.65	\$60,772
03b	Decompact Process Pond	RIPPER	2	6.85	\$3,373
03c	Topsoil Process Pond	DOZER	2	14.06	\$6,394
03d	Reveg Process Pond	REVEGE	1	28.50	\$36,353
04a	Regrade Plant Area	DOZER	2	23.69	\$10,773
04b	Decompact Plant Area	RIPPER	2	7.02	\$3,457
04c	Topsoil Plant Area	DOZER	2	6.07	\$2,759
04d	Reveg Plant Area	REVEGE	1	12.30	\$15,689
05a	Regrade Well Pads	DOZER	2	165.76	\$75,377
05b	Topsoil Well Pads	DOZER	2	34.04	\$15,479
05c	Reveg Well Pads	REVEGE	1	73.50	\$88,014
06a	Decompact Roads	RIPPER	2	4.82	\$2,378
06b	Topsoil roads	DOZER	2	4.44	\$2,019
06c	Reveg Roads	REVEGE	1	9.00	\$11,480
12a	Initial Mobilization	MOBILIZE	1	8.00	\$14,500
12b	Secondary Mobilization	MOBILIZE	1	8.00	\$2,422
<u>SUBTOTALS:</u>				1229.7	\$2,865,360

INDIRECT COSTS**OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$57,880
Performance bond:	1.05	Total =	\$30,086
Job superintendent:	614.85	Total =	\$42,664
Profit:	10.00	Total =	\$286,536
		TOTAL O & P =	\$417,167
		CONTRACT AMOUNT (direct + O & P) =	\$3,282,527

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	5.23	Total =	\$171,676
Reclamation management and/or administration:	4.00		\$131,301
CONTINGENCY:	3.00	Total =	\$85,961
		TOTAL INDIRECT COST =	\$806,605
		TOTAL BOND AMOUNT (direct + indirect) =	\$3,671,965

DEMOLITION WORK

Task description: Demo of Plant, pipelines, powerlines and parking lot

Site: Nahcolite Project

Permit Action: TR-44

Permit/Job#: M1983194

PROJECT IDENTIFICATION

Task #: 01A
Date: 10/1/2019
User: ACY

State: Colorado
County: Rio Blanco

Abbreviation: None
Filename: M194-01a

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
NSI Plant	200'L x 227'W x 42.5'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,929,500.00	CF	\$0.71	\$1,371,681.55
Product Storage Dome	95'L x 95'W x 50'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	451,250.00	CF	\$0.71	\$320,793.63
Removal of NSI Plant Slab	200'L x 227'W x 8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	45,400.00	SF	\$1.25	\$56,532.08
Removal of Storage Dome Slab	95'L x 95'W x 8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	9,025.00	SF	\$1.25	\$11,237.93
Scale Building	108'W x 18'L x 10'H	Plant (1S) demo./off-site disposal in approved landfill - Max. 30 mile haul	19,440.00	CF	\$0.72	\$13,919.04
Removal of Scale Building Slab	108'W x 18'L x 8"	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	1,944.00	SF	\$1.25	\$2,420.67
Tank Farm	30'W x 50'H	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	5.00	EA	\$760.00	\$3,800.00
Removal of Flagpole/Monument	70 SqFt	USER PROVIDED ITEM	70.00	Ft^2	\$5.00	\$350.00
Demolition of Screening and Magnet System	6'W x 18'L x 10'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,080.00	CF	\$0.71	\$767.77
Pipelines averaged to 10" diam	34,948 LF	Pipe, steel, welded connections - 10 in. diameter pipe	34,948.00	LF	\$6.37	\$222,618.76

Job Hours: 80.00

Subtotal
(unadjusted): \$2,004,121.43

Total Cost
(adjusted for location): \$1,913,935.97

BOREHOLE SEALING WORK

Task description: Borehole P&A

Site: Nahcolite Project

Permit Action: TR-44

Permit/Job#: M1983194

PROJECT IDENTIFICATION

Task #: 02A
Date: 10/1/2019
User: ACY

State: Colorado
County: Rio Blanco

Abbreviation: None
Filename: M194-02a

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
3M-TDR	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.00	\$9,376.25
89-1	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.00	\$8,131.75
89-2	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.00	\$7,082.17
89-3	Portland cement grout - 4 in. (labor, equip, materials)	4	347	347.00	LF	\$5.00	\$1,734.31
90-1	Portland cement grout - 8 in. (labor, equip, materials)	8.9	1417	1,417.00	LF	\$6.29	\$8,915.76
90-3	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.00	\$8,131.75
90-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.00	\$7,082.17
BG-1	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.00	\$8,131.75
BG-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.00	\$8,131.75
DS-2	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.00	\$9,376.25
DS-3	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.00	\$9,376.25
EX-2	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.00	\$9,376.25
IRI-1	Portland cement grout - 4 in. (labor, equip, materials)	4	347	347.00	LF	\$5.00	\$1,734.31
IRI-4	Portland cement grout - 4 in. (labor, equip, materials)	4	1417	1,417.00	LF	\$5.00	\$7,082.17

IRI-5	Portland cement grout - 4 in. (labor, equip, materials)	4.1	347	347.00	LF	\$5.00	\$1,734.31
IRI-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1627	1,627.00	LF	\$5.00	\$8,131.75
IRI-7	Portland cement grout - 4 in. (labor, equip, materials)	4	1876	1,876.00	LF	\$5.00	\$9,376.25
IRI-8	Portland cement grout - 4 in. (labor, equip, materials)	4	347	347.00	LF	\$5.00	\$1,734.31
12H-I	Portland cement grout - 8 in. (labor, equip, materials)	7	2100	2,100.00	LF	\$6.29	\$13,213.20
12H-I Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
12H-R	Portland cement grout - 8 in. (labor, equip, materials)	7	2100	2,100.00	LF	\$6.29	\$13,213.20
12H-R Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
10H-I	Portland cement grout - 8 in. (labor, equip, materials)	7	1935	1,935.00	LF	\$6.29	\$12,175.02
10H-I Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
10H-R	Portland cement grout - 8 in. (labor, equip, materials)	7	1935	1,935.00	LF	\$6.29	\$12,175.02
10H-R Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
BG-5	Portland cement grout - 4 in. (labor, equip, materials)	4	1645	1,645.00	LF	\$5.00	\$8,221.71
BG-5 (DS-5)	Portland cement grout - 4 in. (labor, equip, materials)	4	1902	1,902.00	LF	\$5.00	\$9,506.20
BG-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1639	1,639.00	LF	\$5.00	\$8,191.72
WSW-2	Portland cement grout - 8 in. (labor, equip, materials)	7	1460	1,460.00	LF	\$6.29	\$9,186.32
DVPW-1(A)	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1900	1,900.00	LF	\$5.67	\$10,773.00
DVPW-1(A) Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
DVPW-1(B)	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1900	1,900.00	LF	\$5.67	\$10,773.00
DVPW-1(B) Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
10H-IV	Portland cement grout - 8 in. (labor, equip, materials)	7	1950	1,950.00	LF	\$6.29	\$12,269.40
13H-RI-E (13H-R)	Portland cement grout - 8 in. (labor, equip, materials)	7	2100	2,100.00	LF	\$6.29	\$13,213.20

	in. (labor, equip, materials)						
13H-RI-E Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
14H-I	Portland cement grout - 8 in. (labor, equip, materials)	7	2050	2,050.00	LF	\$6.29	\$12,898.60
14H-I Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
14H-RI-E (14H-R)	Portland cement grout - 8 in. (labor, equip, materials)	7	2110	2,110.00	LF	\$6.29	\$13,276.12
14H-RI-E Bridge Plug	PVC plug - 8 in. diameter borehole	7	1	1.00	EA	\$80.77	\$80.77
WSW-3	Portland cement grout - 8 in. (labor, equip, materials)	7	1420	1,420.00	LF	\$6.29	\$8,934.64
WSW-4	Portland cement grout - 8 in. (labor, equip, materials)	7	1431	1,431.00	LF	\$6.29	\$9,003.85
DS-8 (I, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.00	\$9,406.24
AG-1 (J, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1487	1,487.00	LF	\$5.00	\$7,432.03
BG-7 (K, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1593	1,593.00	LF	\$5.00	\$7,961.81
DS-9 (M, Phase 1)	Portland cement grout - 4 in. (labor, equip, materials)	4	1917	1,917.00	LF	\$5.00	\$9,581.17
DS-7	Portland cement grout - 4 in. (labor, equip, materials)	4	1897	1,897.00	LF	\$5.00	\$9,481.21
O-GWM-A (O, Phase 2)	Portland cement grout - 8 in. (labor, equip, materials)	7	1294	1,294.00	LF	\$6.29	\$8,141.85
DS-6	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.00	\$9,406.24
IRI-9	Portland cement grout - 4 in. (labor, equip, materials)	4	1710	1,710.00	LF	\$5.00	\$8,546.58
IRI-11	Portland cement grout - 4 in. (labor, equip, materials)	4	1550	1,550.00	LF	\$5.00	\$7,746.90
15H-I	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$5.67	\$11,113.20
15H-1 Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
15H-RI (15H-R)	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$5.67	\$11,113.20
15H-RI Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
16H-I	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$5.67	\$11,113.20

	in. (labor, equip, materials)						
16H-I Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
16H-R	Portland cement grout - 8 in. (labor, equip, materials)	8.9	1960	1,960.00	LF	\$6.29	\$12,332.32
16H-R Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$80.77	\$80.77
17H-I	Portland cement grout - 6 in. (labor, equip, materials)	6.4	1960	1,960.00	LF	\$5.67	\$11,113.20
17H-I Bridge Plug	PVC plug - 6 in. diameter borehole	6.4	1	1.00	EA	\$58.97	\$58.97
17H-R	Portland cement grout - 10 in. (labor, equip, materials)	9	2000	2,000.00	LF	\$7.14	\$14,288.20
17H-R Bridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$110.66	\$110.66
12H-IR	Portland cement grout - 10 in. (labor, equip, materials)	9	2100	2,100.00	LF	\$7.14	\$15,002.61
12H-IR Bridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$110.66	\$110.66
13H-IR	Portland cement grout - 10 in. (labor, equip, materials)	9	2100	2,100.00	LF	\$7.14	\$15,002.61
13H-IR Bridge Plug	PVC plug - 10 in. diameter borehole	9	1	1.00	EA	\$110.66	\$110.66
15H-SSMW	Portland cement grout - 4 in. (labor, equip, materials)	4	1760	1,760.00	LF	\$5.00	\$8,796.48
17H-SSMW	Portland cement grout - 4 in. (labor, equip, materials)	4	1720	1,720.00	LF	\$5.00	\$8,596.56
DS-10	Portland cement grout - 4 in. (labor, equip, materials)	4	1882	1,882.00	LF	\$5.00	\$9,406.24
14H-1V	Portland cement grout - 8 in. (labor, equip, materials)	8.9	2130	2,130.00	LF	\$6.29	\$13,401.96
14H-1V Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$80.77	\$80.77
15H-1V	Portland cement grout - 8 in. (labor, equip, materials)	8.9	1898	1,898.00	LF	\$6.29	\$11,942.22
16H-1V	Portland cement grout - 8 in. (labor, equip, materials)	8.9	1976	1,976.00	LF	\$6.29	\$12,432.99
17H-1V	Portland cement grout - 8 in. (labor, equip, materials)	8.9	2100	2,100.00	LF	\$6.29	\$13,213.20
15H-IR-E	Portland cement grout - 8 in. (labor, equip, materials)	8.9	2135	2,135.00	LF	\$6.29	\$13,433.42
15H-IR-E Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$80.77	\$80.77
16H-IR-E	Portland cement grout - 8	8.9	2131	2,131.00	LF	\$6.29	\$13,408.25

	in. (labor, equip, materials)						
16H-IR-E Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$80.77	\$80.77
17H-IR-E	Portland cement grout - 8 in. (labor, equip, materials)	8.9	2138	2,138.00	LF	\$6.29	\$13,452.30
17H-IR-E Bridge Plug	PVC plug - 8 in. diameter borehole	8.9	1	1.00	EA	\$80.77	\$80.77

Job Hours: 610.00

Total Cost: \$600,185.00

BULLDOZER WORKTask description: Regrade Well PadsSite: Nahcolite ProjectPermit Action: TR-44Permit/Job#: M1983194**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 10/1/2019County: Rio BlancoFilename: M194-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.24	NA

Total unit Cost/Hour: \$227.36Total Fleet Cost/Hour: \$454.72**MATERIAL QUANTITIES**Initial Volume: 148,427Swell factor: 1.115Loose volume: 165,496 LCYSource of estimated volume: 46 ac of pads grade 24" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,600 feetMaterial weight: 2,100 lbs/LCYWeight description: Earth - Loam**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4908

Adjusted unit production: 499.19 LCY/hr

Adjusted fleet production: 998.38 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.455/LCY

Total job time: 165.76 Hours

Total job cost: \$75,377

BULLDOZER WORKTask description: Topsoil Well PadsSite: Nahcolite ProjectPermit Action: TR-44Permit/Job#: M1983194**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 10/1/2019County: Rio BlancoFilename: M194-05bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.24	NA

Total unit Cost/Hour: \$227.36Total Fleet Cost/Hour: \$454.72**MATERIAL QUANTITIES**Initial Volume: 37,107Swell factor: 1.000Loose volume: 37,107 LCYSource of estimated volume: 46 ac @ 6" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 634.3 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,600 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 545.05 LCY/hr

Adjusted fleet production: 1090.1 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.417/LCY

Total job time: 34.04 Hours

Total job cost: \$15,479

REVEGETATION WORKTask description: Reveg Well PadsSite: Nahcolite ProjectPermit Action: TR-44Permit/Job#: M1983194**PROJECT IDENTIFICATION**Task #: 05CState: ColoradoAbbreviation: NoneDate: 10/1/2019County: Rio BlancoFilename: M194-05cUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$101.93
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$295.53

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Crested Wheatgrass - Ephraim	4.00	18.37	\$17.30
Blue Wildrye - Arlington or Elkton	1.50	5.17	\$9.99
Russian Wildrye - Bozoisky	1.50	6.03	\$9.72
Hard Fescue - Discovery	1.00	12.97	\$2.93
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Yellow Sweet Clover - Madrid	0.50	2.98	\$1.41
Tall Wheatgrass - Jose	1.80	3.26	\$6.08
Thickspike Wheatgrass - Critana	4.30	15.20	\$29.56

Sweetvetch, Utah or Northern	0.10	0.05	\$7.50
Western Wheatgrass - Barton	1.50	3.79	\$10.50
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	18.00	86.97	\$111.29

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$2.74	\$5.48
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				\$595.48

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$70.17
Power mulcher (MEANS 32 91 13.16 0350)	\$95.83
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$237.50

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 46 Cost /Acre: \$1,471.80
 Estimated Failure Rate: 30% Cost /Acre*: \$1,471.80
 *Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$67,702.80
 Reseeding Job Cost: \$20,310.84
 Total Job Cost: \$88,014
 Job Hours: 73.50

**STATE OF
COLORADO****Yeldell - DNR, Amy** <amy.yeldell@state.co.us>**Re: NS TR 44**

1 message

Daub, Gerald <gjdaub@daubandassociates.com>

To: "Yeldell - DNR, Amy" <amy.yeldell@state.co.us>

Cc: Randy Dean <randy.dean@daubandassociates.com>, "Johnson, Liz" <ljohnson@daubandassociates.com>

Wed, Oct 2, 2019 at 10:33 AM

Amy:

As a result of this exercise there was a 250' reduction in the total NS pipeline footage.

Here are the NS pipeline numbers:

16 inch – 9,200 feet

12 inch – 7,000 feet

8 inch – 7,500 feet

6 inch – 11,248 feet

Regards,

Jerry

Jerry Daub, PG, CPG

Daub & Associates, Inc.

1985 1/2 South Broadway

Grand Junction, CO 81507

<http://www.daubandassociates.com>

(970) 254-1224 (phone)

(970) 242-8438 (fax)

(970) 216-1010 (cell)

gjdaub@daubandassociates.com

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On Tue, Oct 1, 2019 at 11:32 AM Yeldell - DNR, Amy <amy.yeldell@state.co.us> wrote:

Can I please get the piping totals that resulted in the average of 35,198 LF of 10"

Amy Yeldell
Environmental Protection Specialist
Minerals Program, Grand Junction Field Office



P 303-866-3567 Ext:8183 | F 303-832-8106
101 S. 3rd St., Suite 301, Grand Junction, CO 81501
amy.yeldell@state.co.us | www.mining.state.co.us

On Mon, Sep 30, 2019 at 2:55 PM Daub, Gerald <gjdaub@daubandassociates.com> wrote:

Amy:

Thanks for meeting with us last week. Attached please find the TR 44 that I have sent to your Denver office via FedEx for delivery tomorrow. We would appreciate anything you could do to expedite this process and the ability to request the surety reduction as quickly as possible as well. Thank you.

Regards,
Jerry

Jerry Daub, PG, CPG
Daub & Associates, Inc.
1985 1/2 South Broadway
Grand Junction, CO 81507

<http://www.daubandassociates.com>
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ORIGIN ID: GJTA (970) 254-1224
GERALD DAUB
1985 1/2 S BROADWAY
GRAND JUNCTION, CO 81507
UNITED STATES US

SHIP DATE: 08OCT19
ACTWGT: 0.25 LB
CAD: 3003129/NET4160

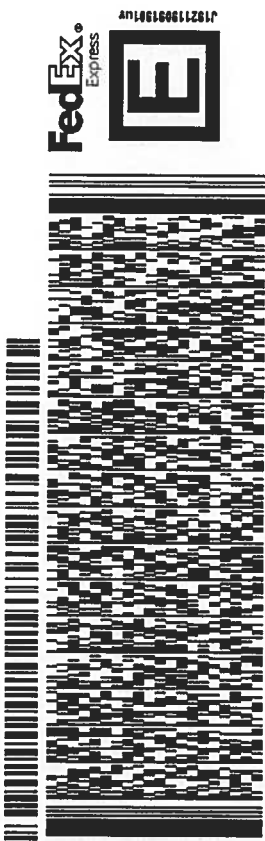
BILL SENDER

TO ATTN: MINERALS DIVISION

DRMS
1313 N SHERMAN ST
STE 215
DENVER CO 80203

(303) 866-3567 REF. TR-44 10/08/19
INV. PO. DEPT.

567J3/2A3C/05A2



WED - 09 OCT 3:00P
STANDARD OVERNIGHT

TRK# 7766 0589 3961

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OCT 09 2019

DIVISION OF RECLAMATION
MINING AND SAFETY

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