



STATE OF
COLORADO

O'Donnell - DNR, Tyler <tyler.odonnell@state.co.us>

Public comments and bond calculation

O'Donnell - DNR, Tyler <tyler.odonnell@state.co.us>

Tue, May 28, 2013 at 1:24 PM

To: Hans Friederichs <hansf_06@hotmail.com>, jrudeinc@cminet.net

Gentlemen,

I have attached the comments from the State Historic Preservation Officer, and the Division of Water Resources. I have also attached the Division's bond calculation.

Thank you

Tyler

—

Tyler O'Donnell

Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203
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3 attachments

Comments from DWR M2013023.pdf
26K

Comments from SHPO M2013023.pdf
712K

M2013023 bond estiamate.pdf
230K



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Response to Reclamation Permit Application Consideration

DATE: May 21, 2013
TO: Tyler V. O'Donnell, Environmental Protection Specialist
CC: Division 2 Office; District 67 Water Commissioner
FROM: Caleb Foy, E.I.T. CRF
RE: Sharp Pit #2, File No. M-2013-023
Operator: Riverside Aggregates, LLC
Contact: Hans Friederichs, (719) 829-4484
Sec. 22, Twp. 22S, Rng. 48W, 6th P.M., Las Animas County

CONDITIONS FOR APPROVAL

- ☒ The proposed operation does not anticipate exposing groundwater. Therefore, exposure of ground water must not occur during or after mining operations. If stormwater is contained on-site, it must infiltrate into the ground or be released to the natural stream system within 72 hours, or all work must cease until a substitute water supply plan, or augmentation plan approved by water court, is obtained. Reclamation plans must ensure water will not be retained onsite for more than 72 hours unless an augmentation plan approved by water court is obtained.
- ☒ The proposed operation will consume water by: ☐ evaporation, ☐ dust control, ☐ reclamation, ☐ water removed in the mined product, ☐ processing, ☒ other: activities that are "minimal and sporadic" according to the application.
- ☒ Other: The water used for the operation shall be a legal supply of water hauled to the site by truck.

COMMENTS: The local Water Commissioner, Joshua Kasper, may be contacted at (719) 688-6711 or joshua.kasper@state.co.us regarding legal supplies of water in the area.

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589
www.water.state.co.us



May 6, 2013

Tyler V. O'Donnell
Environmental Projection Specialist
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

RECEIVED

MAY 13 2013

DIVISION OF RECLAMATION
MINING AND SAFETY

Re: Notice of 110 Construction Materials Reclamation Permit Application Consideration Riverside Aggregates, LLC, Sharp Pit #2, File No. M-2013-023, HC #64003

Dear Mr. O'Donnell:

Thank you for your correspondence dated May 1, 2013 (received by our office on May 6 2013) regarding the subject project.

A search of the Colorado Cultural Resource Inventory database indicated that one site and no cultural resource inventories have been conducted in the vicinity of the proposed permit area. The site number is 5BN.587 which was determined field eligible in 2006. We recommend that this site is avoided unless we are requested to provide an official determination of eligibility that may have a different finding.

Our files contain incomplete information for this area, as most of Colorado has not yet been inventoried for cultural resources. As a result, there is the possibility that as yet unidentified cultural resources exist within the proposed permit area.

Should human remains be discovered during mining activities, the requirements under State law CRS 24-80 part 13 apply and must be followed.

Thank you for the opportunity to comment. If we may be of further assistance, please contact Dan Corson, Intergovernmental Services Director, at (303) 866-2673 or dan.corson@state.co.us

Sincerely,

Edward C. Nichols
State Historic Preservation Officer

COST SUMMARY WORK

Task description: Reclaim Sharp Pit #2

Site: Sharp Pit #2 Permit Action: New application Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 999 State: Colorado Abbreviation: None
Date: 5/9/2013 County: Bent Filename: M023-999
User: TOD

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Remove Highwall	DOZER	1	14.79	\$2,413.03
002	Spread Topsoil	DOZER	1	61.51	\$10,034.29
003	Finish Grading	GRADER	1	7.65	\$1,021.00
004	Revegetation work	REVEGE	1	40.00	\$4,348.38
005	Dust Control	MISCTRUK	1	16.00	\$842.00
006	Mobilization/ Demobilization	MOBILIZE	1	3.09	\$1,750.21
<u>SUBTOTALS:</u>				143.04	\$20,408.91

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$412.26
Performance bond:	1.05%	Total =	\$214.29
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$2,040.89
		TOTAL O & P =	\$2,667.44
		CONTRACT AMOUNT (direct + O & P) =	\$23,076.35

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	0.00%	Total =	\$0.00
Reclamation management and/or administration:	5.00%		\$1,153.82

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$4,321.26

TOTAL BOND AMOUNT (direct + indirect) = \$24,730.17

BULLDOZER WORK

Task description: Remove highwall

Site: Sharp Pit #2

Permit Action: New application

Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 5/9/2013

County: Bent

Filename: M023-001

User: TOD

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP

Horsepower: 238

Blade Type: Straight

Attachment: 3-shank ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$44.66	NA
Operating Cost/Hour:	\$81.07	100
Ripper op. Cost/Hour:	\$0.00	100
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$0.00

Total Fleet Cost/Hour: \$163.14

MATERIAL QUANTITIES

Initial Volume: 4,722

Swell factor: 1.125

Loose volume: 5,312 LCY

Source of estimated volume: 15 feet high 850 long

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 70 feet

Unadjusted hourly production: 613.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -5 %

Average site altitude: 3,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

Job Condition Correction Factor

		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5856

Adjusted unit production: 359.15 LCY/hr

Adjusted fleet production: **359.15 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.454/LCY

Total job time: **14.79 Hours**
Total job cost: **\$2,413.03**

MOTOR GRADER WORK

Task description: Finish Grading

Site: Sharp Pit #2 Permit Action: New application Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 5/21/2013 County: Bent Filename: M023-003
User: TOD

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 14M Horsepower: 259
Ripper Attachment: _____ Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

Ownership Cost/Hour:	<u>\$37.98</u>	Utilization %
Operating Cost/Hour:	<u>\$67.74</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$0.00</u>	<u>100</u>
Operator Cost/Hour:	<u>\$27.55</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$133.27</u>	
Total Fleet Cost/Hour:	<u>\$133.27</u>	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 9.90 acres

Source of estimated acreage: DRMS Field inspection

HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Finish grading (0-2.5 mph) - 1.5
Selected Blade Angle: 45 degrees
Effective Blade Length: 9.90 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 7.90 feet
Unadjusted Hourly Unit Production: 1.4364 acres/hour

Job Condition Correction Factors

Site Altitude: 3800 feet

Altitude Adj:	<u>1.00</u>	Source
Job Efficiency:	<u>0.90</u>	<u>(CAT HB)</u>
Net Correction:	<u>0.9000</u>	<u>(1sh/d, fav.)</u>
		multiplier

Adjusted Hourly Unit Production: 1.2927 acres/Hour
Adjusted Hourly Fleet Production: 1.2927 acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 7.66 Hours

Unit cost: \$103.09 per acre Total job cost: \$1,021.00

REVEGETATION WORK

Task description: Revegetation work

Site: Sharp Pit #2 Permit Action: New application Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
Date: 5/9/2013 County: Bent Filename: M023-004
User: TOD

Agency or organization name: DRMS

FERTILIZING

Materials

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

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
Total Tilling Cost/Acre	\$243.21

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.80	13.06	\$8.52
Sand Dropseed	0.10	11.94	\$0.70
Little Bluestem - Native	0.70	4.18	\$10.00
Russian Wildrye - Bozoisky	1.00	4.02	\$6.24
Western Wheatgrass - Native	5.60	14.14	\$17.02
Totals Seed Mix	8.20	47.33	\$42.48

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20
Total Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS

Materials

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

Application

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

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:	9.9	Cost /Acre:	\$373.89
Estimated Failure Rate:	50%	Cost /Acre*:	\$130.68
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$3,701.51
Reseeding Job Cost:	\$646.87
Total Job Cost:	\$4,348.38
Job Hours:	40.00

MISCELLANEOUS TRUCK WORK

Task description: Dust Control

Site: Sharp Pit #2 Permit Action: New application Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
Date: 5/21/2013 County: Bent Filename: M023-005
User: TOD

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Make and Model: Water Tanker, 2,500 Gal. Horsepower: 150
Attachment 1: _____ Shift Basis: 1 per day
Attachment 2: _____ Weight: 5.25
Labor Unit 1: Helper (US Tons)
Labor Unit 2: _____

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$7.51	NA
Operating Cost/Hour:	\$22.07	100
Operator Cost/Hour:	\$23.02	NA
Total Unit Cost/Hour:	\$52.61	
Total Fleet Cost/Hour:	\$52.61	

JOB TIME AND COST

Fleet size: 1 Truck(s) Total job time: 16.00 Hours
Unit cost: \$52.61 /Hour Total job cost: \$842.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization/ Demobilization

Site: Sharp Pit #2

Permit Action: New Application

Permit/Job#: M2013023

PROJECT IDENTIFICATION

Task #: 006

State: Colorado

Abbreviation: None

Date: 5/21/2013

County: Bent

Filename: M023-006

User: TOD

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day

Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER
(25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D7R DS XR Series II	35.93	\$0.00	\$117.55	1	\$117.55	\$117.55	\$250.00
CAT 14M	23.57	\$37.98	\$88.67	1	\$126.65	\$88.67	\$250.00

Subtotals: **\$244.20** **\$206.22** **\$500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$29.58	1	\$29.58	\$29.58

Subtotals: **\$29.58** **\$29.58**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>LAMAR</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,734.08</u>
‘* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$16.13</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.27</u>	<u>0.27</u>
Return Time (Hours):	<u>0.27</u>	<u>0.27</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.55</u>	<u>0.55</u>

JOB TIME AND COST

Total job time:	<u>3.09</u>	Hours
Total job cost:	<u>\$1,750.21</u>	