September 17, 2018

John Nichols Nichols Gravel Put L.L.P. P.O. Box 285 Mesa, CO 81643



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Nichols Gravel Pit, Permit No. M-1981-013, Reclamation Costs Update and Notice of Surety Increase (SI-4)

Dear Mr. Nichols:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be \$\frac{\$115,473.89}{215,474.00}\$ rounded up to \$\frac{\$115,474.00}{215,474.00}\$. This is an increase of \$\frac{\$42,874.00}{215,474.00}\$ over the \$\frac{\$72,600.00}{215,600.00}\$ currently held by the Division. This estimate is based on conditions observed during the July 26, 2018 inspection. **Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.** The additional amount needs to be accepted prior to **Friday, November 16, 2018**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

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 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Yeldell

Environmental Protection Specialist

Ec: Wally Erickson, Senior EPS, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

Nichols (Gravel Pit	Perm	it Action: SI-4	Permit/Jol	b#: <u>M1981013</u>
OJECT	<u>IDENTIFI(</u>	<u>CATION</u>			
Task #:	ACY	State:	Colorado	Abbreviation:	None
	9/14/2018	County:	Mesa	Filename:	M013-ACY
Date:	2/ I I/ 2 010				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Reduce highwalls to 2H:1V	DOZER	2	13.29	\$5,507.00
02a	Distribute overburden over 8.5 ac pit floor	DOZER	2	88.76	\$36,783.00
03a	Spread 6" topsoil on 8.5 ac pit floor	DOZER	2	11.83	\$4,900.00
04a	Spread topsoil on 11.5 ac pit slopes and highwall	DOZER	2	6.09	\$2,523.00
	rim				
05a	Reveg 8.5 ac pit floor to pasture alfalfa	REVEGE] 1	16.00	\$13,862.00
06a	Reveg on 11.5 ac pit slopes	REVEGE	1	20.00	\$17,586.00
06b	Reveg on 1 ac PJ	REVEGE	1	10.00	\$3,664.00
07a	Initial Mobilization	MOBILIZE	1	4.50	\$4,112.00
07b	Secondary Mobilization	MOBILIZE	1	4.50	\$1,876.00
		TALS:	174.97	\$90,813	

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: \$1,834.42 2.02 Total = \$953.54 Performance bond: 1.05 Total = Job superintendent: 87.49 Total = \$6,390.78 Profit: Total = 10.00 \$9,081.30

TOTAL O & $P = \frac{$18,260.04}{}$

CONTRACT AMOUNT (direct + O & P) = $\frac{109,073.04}{}$

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: 5.41 \$5,900.85

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$24,660.89

TOTAL BOND AMOUNT (direct + indirect) = \$115,473.89

BULLDOZER WORK

Task description:	Reduce	highwalls to 2H:1V			
: Nichols Gravel I	Pit	Permit Action:	SI-4	Permit/Job#:	M1981013
PROJECT IDEN	TIFICATION	<u>N</u>			
Task #: 01A		State: Colorado		Abbreviation:	None
Date: $\frac{9/14/2}{}$	2018	County: Mesa		Filename:	M013-01a
User: ACY		, <u> </u>		-	
Agency or	organization na	me: DRMS			
HOURLY EQUI	PMENT COS	<u> </u>			
Basic Machine:	Cat D8T - 8S	U	<u></u>		
Horsepower:	310				
Blade Type:	Semi-Univers	al			
Attachment:	NA				
Shift Basis:	1 per day		<u></u>		
Data Source:	(CRG)		<u> </u>		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/H		\$93.62	NA		
Operating Cost/H	our:	\$73.35	100		
Ripper own. Cost/H		\$0.00	NA		
Ripper op. Cost/H	our:	\$0.00	0		
Operator Cost/H	our:	\$40.23	NA		
MATERIAL QU Initial Volume: Swell factor:	12,500 1.180				
Loose volume:	14,750 LCY				
Source of estimated Source of estimated	_	Approx. 3000LF 30'I Cat Handbook	H 1:1 to 2:1		
HOURLY PROD	<u>OUCTION</u>				
Average push distar Unadjusted hourly p		00 feet 52.6 LCY/hr			
Materials consistence	ey description:	Compacted fill or e	embankment 0.9		
Average push gradio Average site altitude		et			
Material weight:	2,400 lb	s/LCY			
Weight description:	_ Clay and	l gravel - Dry			
Job Condition Corre		a -	Source		
	rator Skill:	0.750	(AVG.)		
Material co		0.900	(CAT HB))		
Dozir	ng method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

0.830	(1 SHIFT/DAY)
0.800	(SSD-AC)
1.516	(CAT HB)
1.000	(CAT HB)
0.958	(CAT HB)
1.000	(PAT)
	0.800 1.516 1.000 0.958

Net correction: 0.6509

Adjusted unit production: 554.96 LCY/hr
Adjusted fleet production: 1109.92 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.373/LCY

Total job time: 13.29 Hours
Total job cost: \$5,507

BULLDOZER WORK

Task description: Nichols Gravel Pit	Distribute overburden over 8.3 Permit Action: S		Permit/Job#:	M1981013
THERES GIRTHIII	1 crimit rection.	· <u>·</u>		111701013
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 02A	State: Colorado		Abbreviation:	None
Date: 9/14/2018	County: Mesa		Filename:	M013-02a
User: ACY	<u> </u>		·	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
	D8T - 8SU			
Horsepower: 310		-		
	ni-Universal	=		
Attachment: NA		-		
Shift Basis: 1 pe	er day	=		
Data Source: (CF	RG)	=		
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$93.62	NA 100		
Operating Cost/Hour:	\$73.35	100		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:	\$0.00 \$0.00	NA 0		
Operator Cost/Hour:	\$40.23	NA		
Total unit Cost/Hour:	\$207.20			
Total Fleet Cost/Hour:	\$414.41			
MATERIAL QUANT	<u>TTIES</u>			
Initial Volume: 27,4	27			
Swell factor: 1.00				
Loose volume: 27,4	27 LCY			
Source of estimated volur	ne: Approx. 2 ft over 8.5 ac	res		
Source of estimated swell				
HOURLY PRODUCT	<u>rion</u>			
Average push distance:	300 feet			
Unadjusted hourly produc		<u> </u>		
Changusted flourry produc	271.7 LC 1/III			
Materials consistency des	cription: Partly consolidated sto	ockpile 1.1		
Average push gradient:	-5 %			
Average site altitude:	5,500 feet			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock, 7	5% Earth		
Job Condition Correction		Source		
Operator S		(AVG.)		
Material consiste		(CAT HB)		
Dozing me		(GEN.)		
Visih		(AVG)		

0.830	(1 SHIFT/DAY)
0.800	(SSD-AC)
1.115	(CAT HB)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
	0.800 1.115 1.000 0.868

Net correction: 0.5302

Adjusted unit production: 154.50 LCY/hr
Adjusted fleet production: 309 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$1.341/LCY

Total job time: 88.76 Hours
Total job cost: \$36,783

BULLDOZER WORK

Task description:	Spread 6" topsoi	l on 8.5 ac p	oit floor		
Nichols Gravel Pit	Per	mit Action:	SI-4	Permit/Job#:	M1981013
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: 9/14/2018	County:	Mesa		Filename:	M013-03a
User: ACY		111054		1 Homanic.	111013 034
		N 40			
Agency or orga	nization name: Di	RMS			
HOURLY EQUIPMI	ENT COST				
	t D8T - 8SU				
Horsepower: 310					
Blade Type: Ser Attachment: NA	mi-Universal				
	er day		<u> </u>		
	RG)				
	/		<u></u>		
Cost Breakdown:			<u>Utilization %</u>		
Ownership Cost/Hour:		\$93.62	NA		
Operating Cost/Hour:	-	\$73.35	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.23	NA		
Total unit Cost/Hour:	\$207.20				
Total Fleet Cost/Hour:	\$414.41				
Total Fleet Cost/Hour.	ψτιτ.τι				
MATERIAL QUANT	<u> </u>				
Initial Volume: 6,85	57				
Swell factor: $\frac{-3,82}{1.21}$					
	31 LCY				
Source of estimated volu		l over 8.5 ac			
Source of estimated swel	l factor: Cat Hand	book			
HOURLY PRODUC	<u>TION</u>				
Average push distance:	200 feet 401.0 LCV	/less			
Unadjusted hourly produ					
Materials consistency de	•	idated stock _]	oile 1.0		
Average push gradient: Average site altitude:	0 % 5,500 feet				
Average site attitude:	3,300 feet				
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				
Job Condition Correction	1 Factor		Source		
Operator	Skill: 0.	750	(AVG.)		
Material consist		000	(CAT HB)	<u> </u>	
Dozing me		000	(GEN.)		
Visil	bility: 1.	.000	(AVG.)		

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

Net correction: 0.7161

Adjusted unit production: 352.25 LCY/hr
Adjusted fleet production: 704.5 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.588/LCY

Total job time: 11.83 Hours
Total job cost: \$4,900

BULLDOZER WORK

Task description:	Spread top	soil on 11.5 ac pit	slopes and highwall rin	n	
: Nichols Gravel Pi	t	Permit Action:	SI-4	Permit/Job#:	M1981013
PROJECT IDENT	<u> TIFICATION</u>				
Task #: 04A	5	State: Colorado		Abbreviation:	None
Date: 9/14/20		unty: Mesa		Filename:	M013-04a
User: ACY				-	
Agency or o	organization name:	DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D8T - 8SU		<u></u>		
Horsepower:	310		<u>—</u>		
Blade Type:	Semi-Universal		<u> </u>		
Attachment: _ Shift Basis:	NA 1 per day		<u> </u>		
Data Source:	(CRG)		_		
_	(CNO)		<u> </u>		
Cost Breakdown:					
O		000.00	<u>Utilization %</u>		
Ownership Cost/Ho		\$93.62	NA 100		
Operating Cost/Ho Ripper own. Cost/Ho		\$73.35 \$0.00	100 NA		
Ripper own. Cost/Ho		\$0.00	0		
Operator Cost/Ho		\$40.23	NA		
Operator Cost/110	uı.	\$40.23	NA		
Total unit Cost/Hour:	\$207.20				
Total Fleet Cost/Hour	r: \$414.41				
Swell factor:	9,276 1.215 11,270 LCY				
	•				
Source of estimated v Source of estimated s		topsoil over 11.5 ac t Handbook	2		
HOURLY PRODU	UCTION				
Average push distance	e: 100 f	oot			
Unadjusted hourly pr		6 LCY/hr			
Materials consistency	description:	Consolidated stockp	pile 1.0		
Average push gradier Average site altitude:					
Material weight:	1,600 lbs/L0	CY		_	
Weight description:	Top Soil				
Job Condition Correct			Source		
	tor Skill:	0.750	(AVG.)		
Material cor		1.000	(CAT HB)		
	method:	1.000	(GEN.)		
1	/isibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.0856

Adjusted unit production: 925.58 LCY/hr
Adjusted fleet production: 1851.16 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.224/LCY

Total job time:
Total job cost:

6.09 Hours
\$2,523

REVEGETATION WORK

Nichols Gravel Pit	Permit A	Action: SI-4			Permit/Job#	: <u>M1981013</u>
PROJECT IDENTIFICAT	ION					
Task #: 05A Date: 9/14/2018 User: ACY		lorado sa		Ab		None M013-05a
Agency or organization	on name: DRMS					
FERTILIZING						
Materials						
Description 8-24-24, 10-15-15, 10-20-20)	Units / Acre 100.00	Unit pound	Cos \$0.	st / Unit 32	Cost /Acre \$32.00
				То	tal Fertilizer Materials Cost/Acre	\$32.00
Application						
Description Push rotary spreader (MEAN	VE 22.01.00.12.0110))				Cost /Acre \$99.32
rush total y spieauer (MEA)	NS 32 01 90.13 0110		Fertilizer	Application	on Cost/Acre	\$99.32 \$99.32
<u> </u>						
Description						Cost /Acre
Disc harrowing, 6" deep (M	EANS 32 91 13.23 6	5100)				\$106.29
			ŗ	Fotal Tilliı	ng Cost/Acre	\$106.29
SEEDING						
Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
				10.00	48.21	\$26.10
Alfalfa - Golden West Blenc	1					Ψ20.10
Alfalfa - Golden West Blend	1	Totals S	Seed Mix	10.00	48.21	\$26.10
Alfalfa - Golden West Blend Application	1	Totals S	Seed Mix			
	1	Totals S	Seed Mix			

\$232.00

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.81	\$2.81
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$578.81

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, truck, non-aquatic area, nox. [DMG]		\$73.22
	Total Mulch Application Cost/Acre	\$234.78

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

Cost /Acre: \$1,309.30 Cost /Acre*: \$1,071.69 No. of Acres: 8.5

Estimated Failure Rate: 30%

*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$11,129.05 Reseeding Job Cost: \$2,732.81 Total Job Cost: **\$13,862** Job Hours: **16.00**

REVEGETATION WORK

	Gravel Pit Permit Action: SI-4 Permit/Job#			#: <u>M1981013</u>		
OJECT IDENTIFICA						
Task #: 06A Date: 9/14/2018 User: ACY	State: County:	Colorado Mesa		Ab	bbreviation: _ Filename: _	None M013-06a
Agency or organiza	tion name: DR	MS				
RTILIZING						
terials						
Description		Units / Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer Materials	
					Cost/Acre	\$0.00
		Total	Fertilizer	Application	on Cost/Acre	\$0.00
<u>LLING</u>		Total	Fertilizer	Application	on Cost/Acre	\$0.00
		Total	Fertilizer	Application	on Cost/Acre	\$0.00
LLING Description Disc harrowing, 6" deep (MEANS 32 91 13		Fertilizer	Application	on Cost/Acre	
Description	MEANS 32 91 13				on Cost/Acre	Cost /Acre
Description	MEANS 32 91 13					Cost /Acre \$106.29
Description Disc harrowing, 6" deep (MEANS 32 91 13			Rate – PLS LBS /		Cost /Acre \$106.29
Description Disc harrowing, 6" deep (EDING Seed Mix Indian Ricegrass - Native	MEANS 32 91 13			Rate – PLS LBS / Acre 3.00	Seeds per SQ. FT	Cost /Acre \$106.29 \$106.29 Cost /Acre
Description Disc harrowing, 6" deep (EDING Seed Mix Indian Ricegrass - Native Sand Dropseed	MEANS 32 91 13			Rate – PLS LBS / Acre 3.00 0.10	Seeds per SQ. FT 9.71 11.94	Cost /Acre \$106.29 \$106.29 Cost /Acre \$21.00 \$1.11
Description Disc harrowing, 6" deep (EDING Seed Mix Indian Ricegrass - Native Sand Dropseed Sainfoin - Eski				Rate – PLS LBS / Acre 3.00 0.10 1.00	Seeds per SQ. FT 9.71 11.94 0.44	Cost /Acre \$106.29 \$106.29 Cost /Acre \$21.00 \$1.11 \$3.05
Description Disc harrowing, 6" deep (EDING Seed Mix Indian Ricegrass - Native				Rate – PLS LBS / Acre 3.00 0.10	Seeds per SQ. FT 9.71 11.94	Cost /Acre \$106.29 \$106.29 Cost /Acre \$21.00 \$1.11

Description

Broadcast seeding [DMG]	\$267.22
Total Seed Applicat	cion Cost/Acre \$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.81	\$2.81
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$578.81

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, truck, non-aquatic area, nox. [DMG]		\$73.22
	Total Mulch Application Cost/Acre	\$166.00

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: 11.5 Cost /Acre: \$1,200.84

Estimated Failure Rate: 30% Cost /Acre*: \$1,094.55

*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$13,809.66

Reseeding Job Cost: \$3,776.20

Total Job Cost: \$17,586

Job Hours: 20.00

REVEGETATION WORK

Task description:	Reveg on 1 ac PJ				
Nichols Gravel Pit	Permit Action: SI-4	-		Permit/Job#	#: <u>M1981013</u>
PROJECT IDENTIFI	CATION				
Task #: 06B	State: Colorado		Abl	breviation:	None
Date: 9/14/2018				Filename:	M013-06b
User: ACY					
Agency or organ	nization name: DRMS				
FERTILIZING					
Materials	77.11				T.
Description	Units / Acre	Unit	Cos	t / Unit	Cost /Acre
			\$		\$
			Tot	al Fertilizer	
				Materials	
				Cost/Acre	\$0.00
<u> </u>	Tota	ıl Fertilizer	Applicatio	n Cost/Acre	\$0.00
Description					Cost /Acre
					\$
		ŗ	Total Tillin	g Cost/Acre	\$0.00
<u>SEEDING</u>					
Seed Mix			Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
					\$
	Totals	Seed Mix	0.00	0.00	\$0.00
Application					
Description					Cost /Acre
					¢

Ī		
	Total Seed Application Cost/Acre	\$0.00

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
Juniper, Rocky Mountain	48	Container, 1 gallon (MEANS)	\$26.00	\$2.40	\$1,248.00
Pine, Pinyon	48	Container, 1 gallon (MEANS)	\$28.52	\$2.40	\$1,368.96
		Totals	Nursery Stoc	ek Cost / Acre	\$2,616.96

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: $\frac{\$2,616.96}{\$2,616.96}$ Estimated Failure Rate: $\frac{40\%}{\$1000}$ Cost /Acre*: $\frac{\$2,616.96}{\$2,616.96}$ *Selected Replanting Work Items: NURSERY

Initial Job Cost: \$2,616.96

Reseeding Job Cost: \$1,046.78

Total Job Cost: \$3,664

10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Initial Mobilization						
te: Nichols Gravel Pit	Permit	Action: SI-4	Permit/Jo	ob#: M1981013		
PROJECT IDENTIFICATI	<u>ON</u>					
Task #: 07A	State: C	olorado	Abbreviation:	None		
Date: 9/14/2018 User: ACY	County: N	Iesa	Filename:	M013-07a		
Agency or organization	n name: DRMS	S				
EQUIPMENT TRANSPOR	T RIG COST					
	1110 0051		Shift basis:	1 per day		
				CRG Data		
Truck Tractor Desc	ription: GENI		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,		
Truck Trailer Desc	ription: C		IG GOOSENECK, DROP DEC	CK EQUIPMENT		
		TR	AILER (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			

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$93.62	\$117.55	2	\$422.34	\$235.10	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

\$117.55

\$125.45

Subtotals: \$623.55 \$412.44 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$55.74	1	\$55.74	\$55.74

\$55.74 Subtotals: \$55.74

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total one-way travel distance:

Average Travel Speed:

CO

25.00

miles

40.00

mph

Total Non-Roadable Mob/Demob Cost *

"* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$69.68

\$4,042.09

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.63	0.63
Return Time (Hours):	0.63	0.63
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.25	1.25

JOB TIME AND COST

Total job time: 4.50 Hours

Total job cost: **\$4,112**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Secondary Mobilization						
ite: Nichols Gravel Pit	Permit Action: SI-4 Permit/Job#: M1981013					
PROJECT IDENTIFICAT	<u>ION</u>					
Task #: 07B Date: 9/14/2018 User: ACY	Date: 9/14/2018 County: Mesa Filename: M013-07b					
Agency or organization	n name: DRMS	S				
EQUIPMENT TRANSPOR		ERIC ON-HIGHW	Shift bas Cost Data Sour AY TRUCK TRACTO	ce:	1 per day CRG Data DIESEL POWERED.	
Truck Truckor Bes	oripiron. GERVI		400 HP (2ND HALF,		DIESEE I O WEREE,	
Truck Trailer Des	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	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Drill/Broadcast	(TONS) 25.00	\$15.54	\$88.67	1	fleet \$104.21	\$88.67	\$250.00
Seeder with Tractor	23.00	Ψ13.31	φοσ.σ7		Ψ101.21	ψοσ.σ7	Ψ230.00
Power Mulcher (Bowie LD-90)	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00

Subtotals: \$201.21 \$177.34 \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

Page 2 of 2

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total Non-Roadable Mob/Demob Cost *

"* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$1,875.61 \$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.63	0.63
Return Time (Hours):	0.63	0.63
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.25	1.25

JOB TIME AND COST

Total job time:	4.50	Hours

Total job cost: **\$1,876**

September 17, 2018

John Nichols Nichols Gravel Pit L.L.P. P.O. Box 285 Mesa, CO 81643



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Nichols Gravel Pit, Permit No. M-1981-013, Explanation of Surety Increase (SI-4)

Dear Mr. Nichols:

On July 26, 2018 the Colorado Division of Reclamation Mining and Safety (Division) inspected the above site. This reclamation cost update was based on site conditions observed during that inspection. The last Surety Increase (SI-3) was issued on March 30, 2009.

Typically the Division updates the reclamation cost estimate following a permit revision or a field inspection. It is Division obligation to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Making no changes to input values and replicating the 2009 calculation, staff estimates the bond to approximately be \$116,315. Furthermore the 2009 calculation only reclaims approximately 12 acres. Currently approximately 20 areas have been affected.

Below is a table summarizing input values that have been updated in Surety Increase (SI-4). This table does not account for price changes resulting from inflation or other RS Means cost changes.

Task	Form Used	Change	Justification
01a	Dozer	-	2009: 22,800 BCY backfill, 1500 LF of 25'H vertical, 60 ft push 2018: 12, 500 BCY Cut & Fill, 3000 LF of 30' 1:1, 100 ft push
02a	Dozer	-	2009: 2 ft over 9 ac (29,040 LCY) loose stockpile 2018:2 ft over 8.5 ac (27,427LCY) consolidated stockpile
03a	Dozer	+	2009: 6" over 3 ac of slopes (3,663 LCY), 60 ft push 2018: 6" over 11.5 ac of slopes and highwall rim/buffer area (9,276 CCY), 100 ft push,
04a	Dozer	-	2009: 6" over 9 ac pit floor (10,890 LCY) 2018: 6" over 8.5 ac pit floor (6,857 CCY)



Task	Form Used	Change	Justification
05a	Reveg	-/+	2009: Reveg pit floor 9 ac w/ 40% failure, chisel plow
			2018: Reveg pit floor 8.5 ac w/ 30% Failure, disk harrow, weed treatment 2-4D
06a	Reveg	-/+	2009: Reveg 3 ac pit slopes w/ 40% failure, chisel plow, Juniper and Pinyon planting (all 3 acres)
			2018: Reveg 11.5 ac pit slopes w/ 30% failure, disk harrow, weed treatment 2-4D
06b	Reveg	-	2009:NA Trees included with slopes
			2018: Trees on 1 ac with 40% failure
07a	Mob	+	2009: 1 Dozer, reveg tractor
			2018: 2 Dozers (decreases job hrs), drill seeder tractor and power mulcher
07b	Mob	+	2009: None
			2018: Secondary mobilization of reveg equipment
	Job super	-	2009: 140.16 hrs
			2018: 87.49 hrs

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 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Yeldell

Amy Geldell

Environmental Protection Specialist

Ec:

Wally Erickson, Senior EPS, Grand Junction DRMS