

## COST SUMMARY WORK

Task description: Cost Summary

Keyah Grande Aggregate  
Site: Mining Operation

Permit Action:  
2019 Update

Permit/Job#: M2011026

### PROJECT IDENTIFICATION

Task #: 000  
Date: 4/1/2019  
User: LJW

State: Colorado  
County: Archuleta

Abbreviation: None  
Filename: M026-000

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Remove scale and scale house	DEMOLISH	1	16.00	\$1,789
002	Revegetate areas around the pond	REVEGE	1	8.00	\$5,763
003	Mobilize to and from site	MOBILIZE	1	3.20	\$2,503
<b><u>SUBTOTALS:</u></b>				<b>27.2</b>	<b>\$10,055</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 13.60  
Profit: 10.00

Total = \$203  
Total = \$106  
Total = \$993  
Total = \$1,006

TOTAL O & P = \$2,308

CONTRACT AMOUNT (direct + O & P) = \$12,363

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0  
Engineering work and/or contract/bid preparation: 0.00  
Reclamation management and/or administration: 5.00

Total = \$0  
Total = \$0  
Total = \$618

CONTINGENCY: 3.00

Total = \$302

TOTAL INDIRECT COST = \$3,227

**TOTAL BOND AMOUNT (direct + indirect) = \$13,282**

## DEMOLITION WORK

Task description: Remove scale and scale house

Site: Keyah Grande Aggregate  
Mining Operation

Permit Action: 2019 Update

Permit/Job#: M2011026

### PROJECT IDENTIFICATION

Task #: 001  
Date: 4/1/2019  
User: LJW

State: Colorado  
County: Archuleta

Abbreviation: None  
Filename: M026-001

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 89.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale House	10 x 20 x 10	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 60 mile haul	2,000.00	CF	\$0.57	\$1,136.00
Scale	12 x 40	Loading and 5 mile haul, salvage allowed - Steel frame structures	60.00	CY	\$10.27	\$616.20
General site cleanup	15 CY	Loading and 2 mile haul, no salvage - Machine loading	15.00	CY	\$17.20	\$258.00

Job Hours: 16.00

Subtotal  
(unadjusted): \$2,010.20

Total Cost  
(adjusted for location): \$1,789.08

**REVEGETATION WORK**Task description: Revegetate areas around the pondSite: Keyah Grande Aggregate  
Mining OperationPermit Action: 2019 UpdatePermit/Job#: M2011026**PROJECT IDENTIFICATION**Task #: 002  
Date: 4/1/2019  
User: LJWState: Colorado  
County: ArchuletaAbbreviation: None  
Filename: M026-002Agency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Baltic Rush	0.65	120.11	\$198.01
Aquatic Sedge	0.44	11.53	\$78.13
Creeping Spike Rush	1.09	15.51	\$178.30
Beaked Sedge	0.87	7.26	\$174.12
Dagger Leaf Rush	0.22	80.07	\$45.09
Canada Wildrye	3.05	8.06	\$33.08
Meadow Rush	0.22	80.07	\$64.74
Small Fruit Bulrush	0.44	71.35	\$52.64

Swamp (or Fowl) Bluegrass - Native	3.05	154.14	\$26.55
Nebraska Sedge	0.87	18.26	\$144.21
Slender Sedge	1.74	38.90	\$140.18
Woolly Sedge	0.44	3.23	\$67.64
Mannagrass, Giant	2.62	76.87	\$118.69
Slough Grass	2.62	66.06	\$57.24
Ticklegrass	0.87	108.10	\$22.32
Tufted Hairgrass	2.62	150.14	\$28.67
<b>Totals Seed Mix</b>	<b>21.80</b>	<b>1,009.67</b>	<b>\$1,429.62</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$576.00</b>

**Application**

Description	Cost /Acre
Hay bales, staked, >3h:1v (MEANS 31 25 14.16 1310)	\$0.60
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.60</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 2.06 Cost /Acre: \$2,238.22  
 Estimated Failure Rate: 25% Cost /Acre\*: \$2,238.22  
 \*Selected Replanting Work Items: SEEDING,MULCHING  
 Initial Job Cost: \$4,610.73  
 Reseeding Job Cost: \$1,152.68  
 Total Job Cost: \$5,763  
 Job Hours: 8.00

4/1/2019

# Keyah Grande Seed mix

Conversions

1000 sq ft

1/4 acre = 1000 sq ft

16

21,740 lbs

1/4 acre

21.8 <sup>lbs</sup>/Acre seed rate

14% =	3.052	<sup>lbs</sup> /Ac	Canada Wildrye	.5% x 43.5
14%	3.052	<sup>lbs</sup> /Ac	Fout blue grass	21.5 <sup>lbs</sup> /Ac
12%	2.616	<sup>lbs</sup> /Ac	Giant Manna grass	
12%	2.616	<sup>lbs</sup> /Ac	tufted Hairgrass	
12%	2.616	<sup>lbs</sup> /Ac	American Slough grass	
8%	1.744	<sup>lbs</sup> /Ac	Slender Sedge	
5%	1.091	<sup>lbs</sup> /Ac	Spike Rush	
4%	.872	<sup>lbs</sup> /Ac	tickle grass	
4%	.872	<sup>lbs</sup> /Ac	Beaked Sedge	
4%	.872	<sup>lbs</sup> /Ac	Nebraska Sedge	
3%	.654	<sup>lbs</sup> /Ac	Baltic Rush	
2%	.436	<sup>lbs</sup> /Ac	Aquatic Sedge	
2%	.436	<sup>lbs</sup> /Ac	Wobly Sedge	
2%	.436	<sup>lbs</sup> /Ac	Small fruited Bulrush	
1%	.218	<sup>lbs</sup> /Ac	Meadow rush	
1%	.218	<sup>lbs</sup> /Ac	Dagger Leaf Rush	
	21.870	<sup>lbs</sup> /Acre		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Mobilize to and from siteSite: Keyah Grande Aggregate  
Mining OperationPermit Action: 2019 UpdatePermit/Job#: M2011026**PROJECT IDENTIFICATION**

Task #: 003 State: Colorado Abbreviation: None  
 Date: 4/1/2019 County: Archuleta Filename: M026-003  
 User: LJW

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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 319D L 8'-10" Stick	21.50	\$31.83	\$88.67	1	\$120.50	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00

Subtotals: **\$321.71** **\$266.01** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.23	1	\$12.23	\$12.23

Subtotals: **\$12.23** **\$12.23**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PAGOSA</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,496.05</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$7.34</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.30</u>	<u>0.30</u>
Return Time (Hours):	<u>0.30</u>	<u>0.30</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.60</u>	<u>0.60</u>

**JOB TIME AND COST**

Total job time: 3.20 Hours

Total job cost: \$2,503