



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

Mr. Matt R. Carnahan
Oldcastle SW Group, Inc. dba Four Corners Materials
P.O. Box 1969
Bayfield, CO 81122-1969

April 17, 2014

Re: Cugnini Gravel Pit, Permit No. M-1986-061, Financial Warranty Increase, Revision No. SI-2

Dear Mr. Carnahan:

On April 17, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$565,341.67, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$163,328.67.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me at (970) 259-5861.

Sincerely,

Kate A. Pickford
Environmental Protection Specialist



COST SUMMARY WORK

Task description: 2014 Inspection

Site: Cugnini Gravel Pit

Permit Action: 2014 Inspection

Permit/Job#: M1986061

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 4/16/2014

County: La Plata

Filename: M061-000

User: KAP

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish and Remove Structures and Debris	DEMOLISH	1	5.00	\$321.52
002	Move Overurden to Center Pivot Field	DOZER	1	356.07	\$72,797.39
003	Move Overurden to Center Pivot Field	DOZER	1	125.52	\$25,662.45
004	Move Overurden to Center Pivot Field	DOZER	1	77.51	\$15,846.35
005	Movetopsoil form stockpile for spreading	SCRAPER1	1	479.56	\$172,623.90
006	Movetopsoil form stockpile for spreading	SCRAPER1	1	97.38	\$35,053.85
007	Move Overurden to Center Pivot Field	DOZER	1	114.89	\$23,488.29
008	Rip compaction on pit floor	RIPPER	1	43.97	\$9,277.00
009	Revegetate dryland areas	REVEGE	1	10.00	\$14,296.16
010	Revegetate irrigated areas	REVEGE	1	10.00	\$49,058.49
011	Mobilize	MOBILIZE	1	4.50	\$2,811.73
<u>SUBTOTALS:</u>				1324.4	\$421,237.13

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 0.00%

Total = \$0.00

Performance bond: 0.00%

Total = \$0.00

Job superintendent: 662.20 hrs

Total = \$43,314.50

Profit: 10.00%

Total = \$42,123.71

TOTAL O & P = \$85,438.21

CONTRACT AMOUNT (direct + O & P) = \$506,675.34

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 6.59%

Total = \$33,389.90

Reclamation management and/or administration: 4.89%

\$24,776.42

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$144,104.54

TOTAL BOND AMOUNT (direct + indirect) = \$565,341.67

DEMOLITION WORK

Task description: Demolish and Remove Structures and Debris

Site: Cugnini Gravel Pit

Permit Action: 2014 Inspectin

Permit/Job#: M1986061

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 4/16/2014

County: La Plata

Filename: M061-001

User: KAP

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
misc debris/materials	Assume 30'x30'x15' volume	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	500.00	CY	\$0.70	\$351.00

Job Hours: 5.00

Subtotal
(unadjusted): \$351.00

Total Cost
(adjusted for
location): \$321.52

DEMOLITION WORK

Task description: Demolish and Remove Structures and Debris

Site: Cugnini Gravel Pit

Permit Action: 2014 Inspectin

Permit/Job#: M1986061

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 4/16/2014

County: La Plata

Filename: M061-001

User: KAP

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
misc debris/materials	Assume 30'x30'x15' volume	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	500.00	CY	\$0.70	\$351.00

Job Hours: 5.00

Subtotal
(unadjusted): \$351.00

Total Cost
(adjusted for
location): \$321.52

BULLDOZER WORKTask description: Move Overburden to Center Pivot FieldSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061PROJECT IDENTIFICATIONTask #: 002State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-002User: KAPAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45MATERIAL QUANTITIESInitial Volume: 133,333Swell factor: 1.125Loose volume: 150,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packedJob Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4941

Adjusted unit production: 421.27 LCY/hr

Adjusted fleet production: **421.27 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.485/LCY

Total job time: **356.07 Hours**

Total job cost: **\$72,797.39**

BULLDOZER WORKTask description: Move Overurden to Center Pivot FieldSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-003User: KAPAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45**MATERIAL QUANTITIES**Initial Volume: 63,889Swell factor: 1.165Loose volume: 74,431 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -30 %Average site altitude: 6,700 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6955

Adjusted unit production: 592.98 LCY/hr

Adjusted fleet production: 592.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.345/LCY

Total job time: 125.52 Hours
Total job cost: \$25,662.45

BULLDOZER WORKTask description: Move Overburden to Center Pivot FieldSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061PROJECT IDENTIFICATIONTask #: 004State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-004User: KAPAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45MATERIAL QUANTITIESInitial Volume: 40,000Swell factor: 1.000Loose volume: 40,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -10 %Average site altitude: 6,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packedJob Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6053

Adjusted unit production: 516.08 LCY/hr

Adjusted fleet production: **516.08** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.396/LCY

Total job time: **77.51** Hours

Total job cost: **\$15,846.35**

SCRAPER TEAM WORKTask description: Movetopsoil form stockpile for spreadingSite: Cugini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061PROJECT IDENTIFICATIONTask #: 005State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-005User: KAPAgency or organization name: DRMSHOURLY EQUIPMENTCOSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$97.63	NA	NA	NA	NA	NA
Operating cost/hour:	\$232.31	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.02	NA	NA	NA	NA	NA
Unit Subtotals:	\$359.96	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$359.96	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$359.96MATERIAL QUANTITIESInitial volume: 133,333

CCY

Swell factor: 1.000Loose volume: 133,333

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONScraper Bowl (volume) Basis:

Material weight: 2,900 lbs/LCY
 Material description: Decomposed rock - 50% Rock, 50% Earth
 Rated Payload: 81,600 pounds
 Payload Capacity: 28.14 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: 28.14 LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	0.00	8.00	8.00	1131	2.26

Haul Time: 2.26 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	0.00	8.00	8.00	1931	1.38

Return Time: 1.38 minutesTotal Scraper team cycle time: 5.04 minutesAdjusted for job conditions: 278.03 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 278.03 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 278.03 LCY/HourUnadjusted unit production/hour: 334.98 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 479.56 HoursUnit cost: \$1.295 /LCY Total job cost: \$172,623.90

SCRAPER TEAM WORKTask description: Movetopsoil form stockpile for spreadingSite: Cugini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061PROJECT IDENTIFICATIONTask #: 006State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-006User: KAPAgency or organization name: DRMSHOURLY EQUIPMENTCOSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$97.63	NA	NA	NA	NA	NA
Operating cost/hour:	\$232.31	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.02	NA	NA	NA	NA	NA
Unit Subtotals:	\$359.96	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work: \$359.96		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$359.96MATERIAL QUANTITIESInitial volume: 48,000

CCY

Swell factor: 1.000Loose volume: 48,000

LCY

Source of estimated volume:

Division of Reclamation, Mining & Safety

Source of estimated swell factor:

Cat HandbookHOURLY PRODUCTIONScraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY
 Material description: Earth - Dry packed
 Rated Payload: 81,600 pounds
 Payload Capacity: 32.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: 29.00 LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6700 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	8.00	8.00	1131	0.93

Haul Time: 0.93 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	8.00	8.00	1931	0.60

Return Time: 0.60 minutesTotal Scraper team cycle time: 2.93 minutesAdjusted for job conditions: 492.90 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 492.90 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 492.90 LCY/HourUnadjusted unit production/hour: 593.86 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 97.38 HoursUnit cost: \$0.730 /LCYTotal job cost: \$35,053.85

BULLDOZER WORKTask description: Move Overurden to Center Pivot FieldSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-007User: KAPAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45**MATERIAL QUANTITIES**Initial Volume: 44,000Swell factor: 1.000Loose volume: 44,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 6,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

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

Visibility:	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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 382.99 LCY/hr

Adjusted fleet production: 382.99 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.534/LCY

Total job time: 114.89 Hours

Total job cost: \$23,488.29

BULLDOZER RIPPING WORK

Task description: Rip compaction on pit floor

Site: Cugnini Gravel Pit

Permit Action: 2014 Inspection

Permit/Job#: M1986061

PROJECT IDENTIFICATION

Task #: 008

State: Colorado

Abbreviation: None

Date: 4/16/2014

County: La Plata

Filename: M061-008

User: KAP

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU

Horsepower: 310

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper Operating Cost/Hour:	\$6.53	100
Operator Cost/Hour:	\$37.41	NA
Total Unit Cost/Hour:	\$210.98	
Total Fleet Cost/Hour:	\$210.98	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY

NA

Area: 30.00 acres

Rip Depth (ft): 1.00

Volume: 48,400

BCY or CCY

Source of estimated quantity: _____

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.56</u>	mph
Average Ripping Width:	<u>7.08</u>	degrees
Average Ripping Length:	<u>500.00</u>	feet
Average Dozer Speed:	<u>88.00</u>	feet
Average Maneuver Time:	<u>0.25</u>	feet
Production per unit area:	<u>0.822</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.822</u>	Acres/hr
Site Altitude:	<u>6,700</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.68</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.68</u>	Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 43.97 Hours

Unit cost: \$309.232 Per acre Total job cost: \$9,277.00

REVEGETATION WORKTask description: Revegetate dryland areasSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061PROJECT IDENTIFICATIONTask #: 009State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-009User: KAPAgency or organization name: DRMSFERTILIZINGMaterials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.33	\$65.40
			Total Fertilizer Materials Cost/Acre	\$65.40

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
Total Tilling Cost/Acre	\$145.20

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Smooth Brome - Manchar	5.20	17.31	\$10.24
Yellow Sweet Clover - Madrid	1.40	8.36	\$3.57
Pubescent Wheatgrass - VNS	6.00	12.40	\$11.82
Streambank Wheatgrass - Sodar	4.40	14.34	\$18.52
Western Wheatgrass - Native	6.40	16.16	\$19.46
Totals Seed Mix	23.40	68.57	\$63.61

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28

Total Seed Application Cost/Acre	\$261.28
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost / Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description	Cost / Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$86.68
Total Mulch Application Cost/Acre	\$152.57

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 Cost / Acre: \$1,270.77
 Estimated Failure Rate: 25% Cost / Acre*: \$1,270.77
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
 LCHING

Initial Job Cost: \$11,436.93
 Reseeding Job Cost: \$2,859.23
 Total Job Cost: \$14,296.16
 Job Hours: 10.00

REVEGETATION WORKTask description: Revegetate irrigated areasSite: Cugnini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061**PROJECT IDENTIFICATION**Task #: 010State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-010User: KAPAgency 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)	\$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
Orchardgrass - Latar	2.50	30.99	\$5.53
Meadow Brome - Regar	2.50	2.30	\$7.50
Timothy - Climax	2.50	71.74	\$2.88
Totals Seed Mix	7.50	105.03	\$15.90

Application

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

Total Seed Application Cost/Acre	\$88.20
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$86.68
Total Mulch Application Cost/Acre	\$152.57

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: 55 Cost /Acre: \$1,029.88
 Estimated Failure Rate: 25% Cost /Acre*: \$1,029.88
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$56,643.40
 Reseeding Job Cost: \$14,160.85
 Total Job Cost: \$70,804.25
 Job Hours: 10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: MobilizeSite: Cugini Gravel PitPermit Action: 2014 InspectionPermit/Job#: M1986061**PROJECT IDENTIFICATION**Task #: 011State: ColoradoAbbreviation: NoneDate: 4/16/2014County: La PlataFilename: M061-011User: KAPAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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 D8T - 8SU	53.08	\$63.00	\$125.45	1	\$188.45	\$125.45	\$0.00
Cat 637G	57.28	\$97.63	\$125.45	1	\$223.08	\$125.45	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$0.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$0.00

Subtotals: **\$635.49** **\$428.24** **\$0.00****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.	\$15.34	1	\$15.34	\$15.34

Subtotals: **\$15.34** **\$15.34**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,807.89</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$3.84</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.13	0.13
Return Time (Hours):	0.13	0.13
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.25	0.25

JOB TIME AND COST

Total job time:	<u>4.50</u>	Hours
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Total job cost:	<u>\$2,811.73</u>
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