## COST SUMMARY WORK

Sprague	Scraper Service I	Pit Per	rmit Action:	2024 Cost Estimate	Permit/Jol	b#: <u>M2005032</u>
OJECT	IDENTIFICAT	<u>'ION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	12/13/2024	County:	Washington	1	Filename:	M032-000
User:	BEH	_				

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Replace Overburden and Topsoil	DOZER	1	119.17	\$26,018
002	Rip 2 Trails	RIPPER	1	0.82	\$190
003	Revegetate the Trails	REVEGE	1	1.00	\$433
004	Plant Temporary Crop	1	10.00	\$5,653	
005	Mob/Demob of Reclamation Equipment	1	2.95	\$1,798	
		\$34,092			

## **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$689
Performance bond:	1.05	Total =	\$358
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$3,409
		TOTAL O & P =	\$4,456
		CONTRACT AMOUNT (direct + $O \& P$ ) =	\$38,548

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 0.00 5.00	Total = Total =	\$0 \$0 \$1,927
CONTINGENCY:	0.00	Total =	\$0
	TOTAL I	NDIRECT COST =	\$6,383
TOTAL BO	\$40,475		

# BULLDOZER WORK

Sprague Scraper Serv	vice Pit Per	mit Action:	2024 Cost Estimate	Permit/Job#:	M2005032
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: $12/13/2024$		Washingto	)n	Filename:	M032-001
User: BEH	county.	- Wushingto		i nenume.	111052 001
Agency or organ	nization name: DF	RMS			
HOURLY EQUIPME	ENT COST				
	t D7R DS XR Series	II			
Horsepower: 240					
	ni-Universal				
	hank ripper				
	er day				
	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$90.24	NA		
Operating Cost/Hour:		\$78.95	100		
Ripper own. Cost/Hour:		\$9.25	NA		
Ripper op. Cost/Hour:		\$1.30	25		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT					
Initial Valuma, 21.0					
Initial Volume: <u>31,9</u>					
Swell factor: 1.23	0				
Swell factor:1.23Loose volume:39,2	0 <b>91</b> LCY				
Swell factor: 1.23 Loose volume: 39,2 Source of estimated volume	0 <b>91</b> LCY me:Applicati	 on (24" over	9.9 Acres)		
Swell factor:1.23Loose volume:39,2	0 <b>91</b> LCY me:Applicati		9.9 Acres)		
Swell factor:1.23Loose volume:39,2Source of estimated volumeSource of estimated swell	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u>		9.9 Acres)		
Swell factor: 1.23 Loose volume: 39,2 Source of estimated volume	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u>		• 9.9 Acres)		
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT	0 91 LCY me: <u>Applicati</u> l factor: <u>Cat Hand</u> <u><b>FION</b></u>		• 9.9 Acres)		
Swell factor:1.23Loose volume:39,2Source of estimated volumeSource of estimated swell	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <u><b>FION</b> 200 feet</u>	lbook	9.9 Acres)		
Swell factor: 1.23 Loose volume: 39,2 Source of estimated volu Source of estimated swel HOURLY PRODUCT	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b>FION</b> ction: <u>200 feet</u> 410.8 LCY	lbook /hr	• 9.9 Acres)		
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b>FION</b> ction: <u>200 feet</u> ction: <u>410.8 LCY</u> scription: <u>Partly o</u>	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:         Average push gradient:	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b><u>FION</u> ction: <u>200 feet</u> 410.8 LCY/ scription: <u>Partly of</u> <u>-5 %</u></b>	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b>FION</b> ction: <u>200 feet</u> ction: <u>410.8 LCY</u> scription: <u>Partly o</u>	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:         Average push gradient:	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b><u>FION</u> ction: <u>200 feet</u> 410.8 LCY/ scription: <u>Partly of</u> <u>-5 %</u></b>	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volum         Source of estimated swell         HOURLY PRODUC?         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	0 <b>91</b> LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <b>FION</b> ction: <u>200 feet</u> 410.8 LCY/ scription: <u>Partly of</u> <u>-5 %</u> 4,120 feet	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volum         Source of estimated swell         HOURLY PRODUC?         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:	0 91 LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> FION ction: <u>200 feet</u> 410.8 LCY/ scription: <u>Partly of</u> <u>-5 %</u> 4,120 feet 2,100 lbs/LCY Earth - Loam	lbook /hr	stockpile 1.1		
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	0 91 LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> FION ction: <u>200 feet</u> 410.8 LCY scription: <u>Partly of</u> <u>-5 %</u> 4,120 feet <u>2,100 lbs/LCY</u> <u>Earth - Loam</u> Factor	lbook /hr			
Swell factor:       1.23         Loose volume:       39,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUC?         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist	0 91 LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> <u> <b> </b></u>	/hr consolidated 	stockpile 1.1		
Swell factor: 1.23 Loose volume: 39,2 Source of estimated volus Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator Material consist Dozing me	0 91 LCY me: <u>Applicati</u> 1 factor: <u>Cat Hand</u> FION 200 feet ction: <u>410.8 LCY</u> scription: <u>Partly of</u> <u>-5 %</u> <u>4,120 feet</u> <u>2,100 lbs/LCY</u> <u>Earth - Loam</u> Factor Skill: <u>0.</u> ency: <u>1.</u> ethod: <u>1.</u>	/hr consolidated	stockpile 1.1 <u>Source</u> (AVG.)		

Task # 001

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradient:		1.115	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weight:		1.095	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on:	0.8026	
Adjusted unit production:	32	9.71 LCY/hr	
Adjusted fleet production:	32	9.71 LCY/hr	

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.662/LCY

Total job time:	119.17 Hours
Total job cost:	\$26,018

## BULLDOZER RIPPING WORK

	Task description:	Rip 2	2 Trails				
Site	: Sprague Scra	per Service Pit	Permit Action:	2024 Cost Estin	nate Permi	it/Job#: <u>M2</u>	2005032
	PROJECT ID	ENTIFICATI	<u>ON</u>				
	Task #: 002		State: Colorado		Abbrevia		
	Date: <u>12/</u> User: BE	H	County: Washingto	n		name: <u>M0</u>	32-002
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	DST				
	Basic	Machine: Cat	D7R DS XR Series II		Horsepower:	240	
	Ripper Att	achment: 1-S	hank Ripper		Shift Basis:	1 per da	
					Data Source:	(CRG)	
	Cost Breakdown:	<u>.</u>			Utilization %		
		Ownership Co		\$90.24	NA		
	Dinn	Operating Co er Ownership Co		\$78.95 \$13.69	100 NA		
		per Operating Co		\$9.24	100		
	r i	Operator Co		\$38.59	NA		
		Total Unit Co	ost/Hour:	\$230.71			
		Total Fleet Co	ost/Hour: \$230	.71			
	MATERIAL C	<u>UANTITIES</u>	Sele	cted estimating r	method: Area		
	Alternate Method	<u>ls:</u>		C			
ismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	0.25	acres	Rip Depth (ft):	1.50	Volume: 605		BCY or C
		Source of estin	nated quantity: Inspect	ion			
	HOURLY PRO	<b>DUCTION</b>					
	Seismic:						
		5	Seismic Velocity:	NA	feet/second		
	Area:						
			e Ripping Depth:	1.50	feet/pass		
			e Ripping Width:	3.68 100.00	feet/pass feet/pass		
			age Dozer Speed:	88.00	feet/minute		
		Average	Maneuver Time:	0.25	minutes/pas	S	
		Produc	tion per unit area:	0.366	acres/hour		
	Job Condition Co	prrection Factors					
	Un	adjusted Hourly	Unit Production:	0.366	Acres/hr		
			Site Altitude:	4,120	feet		
			Altitude Adj:	1.00	(CAT HB)	<b>.</b>	
			Job Efficiency: Net Correction:	0.83	(1 shift/day) multiplier	)	
		A .1.2 1					
			Hourly Unit Production: Hourly Fleet Production:	0.30 0.30	Acres/hr Acres/hr		
	JOB TIME AN	·	-				
	Fleet size:	1	Grader(s)	Total job time	: 0.82	2	Hours
	Unit cost:	\$760.246		Total job cost		) 	
	Unit cost:	φ/00.∠40	Per acre	TOTAL JOD COST		,	_

## **REVEGETATION WORK**

Task descri	ption:	Revegetate the 7	Frails			
te: Sprague	Scraper Servi	ce Pit Pe	rmit Action:	2024 Cost Estimate	Permit/Job	#: <u>M2005032</u>
<u>PROJECT</u>	IDENTIFIC	ATION				
Task #:	003	State:	Colorado		Abbreviation:	None
Date:	12/13/2024	County:	Washington	n	Filename:	M032-003
User:	BEH					

## **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)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.60	9.79	\$17.19
Switchgrass - Blackwell	1.00	8.93	\$13.22
Sand Bluestem - Garden Co.	3.20	8.30	\$77.53
Western Wheatgrass - Arriba	3.20	8.08	\$28.91
Prairie Sandreed - Goshen	1.40	8.77	\$23.84
Totals Seed Mix	9.40	43.88	\$160.68

**Application** 

Description		Cost /Acre
Broadcast seeding [DMG]		\$272.56
	Total Seed Application Cost/Acre	\$272.56

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
	Total Mulch Application Cost/Acre	\$85.37

## 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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost:				
Total Job Cost: Job Hours:	\$433			

# **REVEGETATION WORK**

Г	Task descrip	otion:	Plant Tempo	rary Crop			
Site:	Sprague	Scraper Servi	ce Pit	Permit Action:	2024 Cost Estimate	Permit/Job	o#: <u>M2005032</u>
<u>P</u> ]	<u>ROJECT</u>	IDENTIFIC	ATION				
	Task #: Date: User:	004 12/13/2024 BEH	Stat		n	Abbreviation: Filename:	None M032-004
	Age	ency or organiz	zation name:	DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	121.00	pound	\$0.64	\$77.68
Triple superphosphate, 0-46-0	87.00	pound	\$0.92	\$79.75
			Total Fertilizer Materials Cost/Acre	\$157.43

## Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$43.12
	Total Fertilizer Application Cost/Acre	\$43.12

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Wheat, Winter - Tam 107	30.00	27.55	\$16.22
Totals Seed Mix	30.00	27.55	\$16.22

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **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

Estimate	No. of Acres: ed Failure Rate:	 Cost /Acre: Cost /Acre*:	
*Selected Replanti		 	+++++++++++++++++++++++++++++++++++++++
Initial Job Cost:	\$5,653.10		
Reseeding Job Cost:	\$0.00		
Total Job Cost:	\$5,653		
Job Hours:	10.00		

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: Mo	b/Demob of Recla	amation Equip	ment			
e: Sprague Scr	aper Service Pi	t Permit	Action: <u>2024</u>	Cost Esti	mate	Permit/Job#:	M2005032
PROJECT ID	ENTIFICATI	<u>ON</u>					
Task #: 00	05	State: Co	olorado		Abbro	eviation: 1	None
Date: 12	2/13/2024		ashington		F	ilename: I	M032-005
User: B	EH						
Agency	or organizatior	n name: DRMS					
EQUIPMENT	TRANSPOR	T RIG COST					
	INAUSION	<u>1 MG COST</u>			Shift ba	voio: 1 m	oor dou
					Cost Data Sou	1	er day G Data
					Cost Data Sou		O Data
Tru	ck Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	DR, 6X4, DI	ESEL POWERED,
					P (2ND HALF,	(	
Tru	ick Trailer Desc	ription: G	ENERIC FOLD		,		EQUIPMENT
			]	RAILER	(25T, 50T, A)	ND 100T)	
Cost Breakdown:							
Available Rig		0-25 Tons	26-50 Tons		+ Tons		
	ip Cost/Hour:	\$10.44	\$22.18		23.94		
	ng Cost/Hour:	\$26.48	\$54.55		55.65		
	or Cost/Hour:	\$22.52	\$22.52		22.52		
	er Cost/Hour:	\$0.00	\$23.53		23.53		
Total Ur	nit Cost/Hour:	\$59.44	\$122.78	\$	125.64		
NON ROADA	BLE EQUIPN	<u>IENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tr	
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fl	eet Cost/ fleet
	(TONS)		t	2120	fleet	1	
Cat D7R DS XR Series II		\$90.24	\$122.78	1	\$213.02	\$122.78	\$250.00
Drill/Broadcast Seeder with	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00

**ROADABLE EQUIPMENT:** 

Tractor

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

Subtotals:

\$313.48

\$182.22

\$500.00

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	YUMA 22.00 45.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$1,798.16	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.49	0.49
Return Time (Hours):	0.49	0.49
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.48	0.98

### JOB TIME AND COST

Total job time: **2.96** Hours

Total job cost: \$1,798