



Twentymile Coal, LLC

29515 Routt County Road 27
Oak Creek, CO 80467
970.879.3800

February 08, 2022

Ms. Tabettha Lynch
Environmental Protection Specialist
Division of Reclamation, Mining, and Safety
1313 Sherman Street - Room 215
Denver, Colorado 80203
(970) 866-3567 X8147

Re: Twentymile Coal, LLC (TC) – Foidel Creek Mine (C-82-056), 2021 Annual Reclamation Report

Dear Ms. Lynch:

Enclosed is the 2021 Annual Reclamation Report (ARR) for the Foidel Creek Mine. During 2021, a few activities were permitted and initiated under Technical and Minor Revision approvals (summarized as follows), with all of the permitted activities occurring within the existing Permit Area and most within existing disturbance areas, with changes in acreage noted below:

- TR21-96 - Bond Reduction. (Submitted 03/11/2021 and approved 07/02/2021, no change in acreage)
- MR21-318– 15LT Thickener Underflow Pad Site Modification (Submitted 06/22/2021 and approved 07/02/21, no new disturbance)
- MR21-319 – 18LT Dewatering Borehole, pad site, pipeline, powerline, and road (Submitted 07/27/2021 and approved 08/06/2021, 3.0 acres new disturbance)
- TR21-97 – 7East Cross Entries Borehole, Pad Site, and Road (Submitted 07/01/2021 and approved 09/22/2021, 9 acres new disturbance)

Changes in permitted, disturbed, and affected area acreages during 2021 included a total increase of 12 acres for permitted disturbed acreage resulting in a total of 798.8 acres disturbed. No additional acreage was added to the affected area or the permit boundary during 2021, keeping the total at 22,647 acres and 19,996.33 acres, respectively. Please refer to the latest maps and text associated with the revisions referenced above, for specific details.

Key mining and related activities occurring during 2021 included:

- Ongoing development and longwall mining operations in the Wolf Creek Reserve
- Ongoing refuse placement activities.
- Sedimentation Ponds B, D and E were dredged to remove accumulated sediment as part of our ongoing drainage maintenance program

- Dewatering on the New West Mining District commenced.
- 6MN passive treatment system continue to develop.
- On-going CDPHE discharge permit application updates.

Under our ongoing noxious weed control program, TC contracted with Osborne Industries to complete noxious weed control spraying for both active and bond-released areas (approximately 100 acres), consistent with the approved Noxious Weed Control Plan (MR06-206). Areas sprayed for weeds are shown on the most recent map 29, Reclamation Map, and/or listed as follows (spot or area spraying, as appropriate):

- Substations electrical installations, propane storage areas, and surface conveyors (bare-ground spraying to address combustion hazard per MSHA)
- Both sides (approximately 30 to 40 feet) of facility roads
- Soil stockpiles
- Facility pad areas (e.g. 9RT, 10RT, 5MN, 6MN, 13LT, Fish Creek Borehole, 16LT, 18LT)
- Select areas on CRDA and associated soil/cover material stockpiles
- Pond embankments and perimeters

The spring spraying program (June) focused on spot or area spraying for control of white-top (hoary cress), houndstongue, knapweed, and mullein using Escort, Liberate, and 2,4D. The fall spraying program (August - September) focused on control of thistle, any residual weeds, and toadflax, which had previously been found on the site only as small, isolated occurrences, using 2,4D in combination with Tordon. Spraying was also conducted during the fall, within and around electrical installations, conveyors, and propane storage areas using Esplanade, Buccaneer, and Piper to eliminate all vegetation, as a fire-safety and MSHA consideration. Also part of the fall weed spraying is application towards all thistle varieties. As part of our ongoing land management programs, TC conducted managed livestock grazing activities (approximately 2,000 steers) on the bond-released areas.

There are several areas on the attached “2021 Annual Reclamation Report Disturbed Acreage” summary that are identified as “Reclaimed”. These areas have previously been regraded and stabilized with vegetation, however, TC has not pursued bond release for these areas due to the potential for re-disturbance in conjunction with required access and site maintenance activities.

Permit approvals and updated bond calculations during 2021 resulted in an overall increase in bond (\$1,157,805.74), increases in the calculated reclamation liability and required surety coverage, summarized as follows:

- TR21-96 – Bond Reduction and Circes Update (+\$1,100,095.74)
- MR20-317 – 18LT Dewatering Borehole Site (+\$20,828)
- TR21-97 – Cross Entries Borehole Site (+\$36,882)

Attached is the standard form (CDRMS) Annual Reclamation Report for 2021 and an updated disturbance summary. If you have any questions or require further information, please feel free to contact me directly at (970) 870-2718.

Sincerely,

For Twentymile Coal, LLC

Miranda Kawcak

Miranda Kawcak
Manager Environmental

Attachments

cc: Nick Aromando/TC

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year – _____

Mine Name	Permit Number	Permittee
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Address

This report, required by Rule 2.04.13, is due by February 15 of each year, or other date, as agreed upon by the Division. It should include text, discussion, and maps, at a minimum, in addition to any other reclamation monitoring data as required by the approved permit. The location of the acreage reported under each land status category and year of seeding (if applicable) should be clearly identified on a map included with the report.

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acreage in Active Mining Areas ¹				=	

Land Category	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Acres Disturbed ²				=	
Acres Backfilled and Graded				=	
Acres Topsoiled				=	

Acreage in Long-term Facilities ³	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Non-Permanent Facilities				=	
Permanent Facilities (permitted)				=	
Totals				=	

Acres Seeded (permanent)	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
9 Years and Less				=	
10 Years and Greater				=	
Totals				=	

Bond Release	Last Year's Cumulative Total (from last year's ARR)	This Calendar Year			Cumulative Total
		Acres Added (+)	Acres Subtracted (-)		
Phase I Released				=	
Phase II Released				=	
Phase III Released				=	

¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

²Surface Mine Acres Disturbed = B&G + Long-Term Facilities + Active Mining Areas; Underground Mine Acres Disturbed = B&G + Long-Term Facilities; Separately-permitted Loadouts = B&G + Long-Term Facilities

³Includes haul, access and light-use roads, temporary dams and impoundments; permanent dams and impoundments; diversion and collector ditches, water and air monitoring sites; topsoil stockpiles; overburden stockpiles; repair, storage and construction areas; office area, repair shops, and parking; coal stockpiles, loading, and processing areas; railroads; coal conveyors; refuse piles and coal mine waste impoundments; head-of-hollow fills; valley fills; ventilation shafts and entryways; and non-coal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

Twentymile Coal, LLC - Foidel Creek Mine

<u>AREA</u>	<u>DIST. ACREAGE</u>	<u>STATUS</u>
SANDSTONE SUBSTATION	1.00	ACTIVE
FISH CREEK BOREHOLE (W/ROAD)	3.50	ACTIVE
SURFACE FACILITIES	326.90	ACTIVE
COAL REFUSE PILE	69.70	ACTIVE
DRILL PAD 95M001	0.30	ACTIVE
VENT SHAFT EMD	2.80	RECLAIMED
EMD DEWATERING BOREHOLE (W/ROAD)	3.50	ACTIVE
ESCAPE SHAFT	2.50	ACTIVE
ROCK DUST TANK	0.10	ACTIVE
LIESKE SUBSTATION	0.20	ACTIVE
FACILITIES ALTERATION (TRUDY'S CORNER)	1.50	ACTIVE
NMD POWER BOREHOLE	1.80	ACTIVE
NMD VENT SHAFT W/ ACCESS RD	4.40	ACTIVE
FISH CREEK BOREHOLE WATERLINE	1.20	ACTIVE
COMPRESSOR LINE BOREHOLE	0.10	ACTIVE
18 RIGHT INTAKE SHAFT	18.80	RECLAIMED
BATHOUSE ADDITION	0.70	ACTIVE
YVEA CAPACITOR INSTALLATION	0.20	ACTIVE
BATCH-WEIGH LOADOUT ROAD	<u>0.50</u>	ACTIVE
SUBTOTAL - Active (Thru 2004)	439.70	
FISH CREEK TIPPLE	13.50	RECLAIMED
FISH CREEK BOREHOLE WATER HANDLING	0.10	RECLAIMED
SOUTHWEST BOREHOLE	1.20	RECLAIMED
DRILL PADS (BARRICADE CHAMBER)	0.50	RECLAIMED
TRENCH AND BERM	27.30	RECLAIMED
MINE WATER RETURN LINE	7.00	RECLAIMED
8 & 7 RIGHT CROSS-PANEL ENTRY BACKFILL	2.50	RECLAIMED
TROUT CREEK SANDSTONE TEST HOLES	<u>1.20</u>	RECLAIMED
SUBTOTAL - Reclaimed (Thru 2004)	53.30	
2004 TOTAL :	493.00	
6MN INTAKE SHAFT FACILITY (TR05-48)	13.50	ACTIVE
6MN UTILITY BOREHOLES (MR05-198) 0.92 ac dist. within 6MN area	0.00	ACTIVE
COAL FINES CLEAN-UP (MR06-211)	1.50	RECLAIMED
6MN POND MODIFICATIONS (TR06-57)	0.20	ACTIVE
6MN WATER TRANSFER PIPELINE (MR07-224)	7.10	RECLAIMED
THICKENER UNDERFLOW PIPELINE (TR07-60)	0.60	ACTIVE
6MN MINE WATER STORAGE RSVR. (TR07-61)	12.30	ACTIVE
10RT DEWATERING BOREHOLE 2 (MR08-228)	0.20	ACTIVE
MINE DEWATERING MODIFICATIONS (MR08-230)	4.20	ACTIVE
REFUSE PILE CLAY STAGING AREA (MR08-233)	5.00	ACTIVE
18LT SHAFT INSTALLATION (TR09-66)	5.60	ACTIVE
18LT SHAFT GEOTECH INVEST. (MR09-235) 0.10 ac dist. within 18LT Area	0.00	RECLAIMED
18RT/6MN SHAFT HEATERS & MISC (MR09-236)	0.30	ACTIVE
COAL REFUSE DISPOSAL AREA EXP. (TR09-67)	80.00	ACTIVE/RECL.
6RT THICKENER UNDERFLOW (TR09-69)	5.80	ACTIVE
19RT DEWATERING INSTALLATION (TR10-73)	7.50	ACTIVE
18LT MINE WATER PIPELINE (TR'S 09-70/10-74)	7.50	RECLAIMED
DITCH G-6 EXTENSION (TR10-76)	0.30	RECLAIMED
15LT VENT SHAFT (TR11-77)	2.30	ACTIVE
16LT UTILITY BOREHOLE (TR11-78, MR12-260)	13.60	ACTIVE
WMD EMERGENCY BOREHOLE (MR11-253)	1.70	ACTIVE

OVERLAND CONVEYOR GEOTECH (MR11-254)	0.10	ACTIVE
WMD EXPLOR. PROGRAMS (MR'S 11-256/12-261)	2.00	ACTIVE
6MN RESERVOIR RELIEF DRAIN (MR11-259)	0.20	ACTIVE
WCR DRILLING PROGRAM (MR's 12-267/269/271, 14-275/277/278/280/281)	47.70	RECLAIMED
7RT/2MN/SWMD TUF BOREHOLES (TR16-86, MR's13-270/273) 3.3 ac. Permitted/not disturbed	0.60	ACTIVE/PEND.
5MN UTILITY BOREHOLE& WATER PIPELINE (MR14-283/285, 15-288)	8.60	ACTIVE
10-EAST EMERGENCY AIR BOREHOLE (MR15-289) 1.5 ac. Permitted/not disturbed	0.00	PENDING
13-LEFT OUTBY UTILITY BOREHOLE (MR15-291/292)	3.50	ACTIVE
6MN PASSIVE TREATMENT SYTEM GEOTECH (MR16-295)	0.10	RECLAIMED
9E UTILITY BOREHOLE (MR16-296)	3.70	ACTIVE
FISH CREEK BOREHOLE COAL FINES CLEANUP (TR18-90, MR16-297)	0.30	RECLAIMED
SWMD\WMD TUF BOREHOLES AND PIPELINES (TR17-88)	23.80	ACTIVE
9-EAST ADDITIONAL UTILITY BOREHOLES (MR17-304)	0.40	ACTIVE
STOKER COAL SCREENING TEST (MR17-305)	0.00	ACTIVE
SANDSTONE SUB THICKENER UNDERFLOW BOREHOLE AND PIPELINE (MR17-305)	0.00	ACTIVE
WASH PLANT ADDITIONAL THICKENER TANK DESIGN MODIFICAITION (TR19-92)	0.00	ACTIVE
ADDITONAL BOOSTER PUMP AND ENCLOSURE (MR19-312)	0.00	ACTIVE
THICKNER PIPELINE ROUTE MODIFICATION (MR19-313)	0.00	ACTIVE
PASSIVE TREATMENT INLET PIPELINE ROUTE MODIFICATION (MR19-314)	1.40	ACTIVE
PASSIVE TREATMENT INLET PIPELINE ROUTE MODIFICATION 2 (MR19-315)	1.40	ACTIVE
6MN PASSIVE WATER TREATMENT SYSTEM (TR16-84)	19.00	ACTIVE
WETLAND DISTURBANCE BOUNDARIES MODIFICATION (MR20-316)	7.30	ACTIVE
COAL REFUSE DISPOSAL AREA MODIFICATION (TR20-94)	0.00	ACTIVE
OVERLAND BELT SUSPENSION BRIDGE (MR20-317)	0.00	ACTIVE
16LT TO 18LT DEWATER PIPELINE, POWERLINE, AND MCC CONEX (TR20-95)	4.50	ACTIVE
18LT DEWATERING BOREHOLE, ROAD, & PIPELINE (MR21-319)	3.00	ACTIVE
7EAST CROSS ENTRIES BOREHOLE	9.00	ACTIVE
2005-2019 Additions	305.80	
CUMULATIVE TOTAL 2020:	798.80	

Note: The acreage figures presented are based on information contained in previous Annual Reclamation Reports, as-built construction information, and Minor and Technical Revision approval information.

Osborn Industries LLC

#1652

Date: 6/7/21	1 of 2
Job Name: 20 mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info: <u>Miranda</u>
Hoses serviceable	<input checked="" type="checkbox"/>	
Pumps serviceable	<input checked="" type="checkbox"/>	
Filters serviceable	<input checked="" type="checkbox"/>	
Tanks secured properly	<input checked="" type="checkbox"/>	
Proper PPE available	<input checked="" type="checkbox"/>	Notes:

Temperature 60-70	Wind 710	Direction W	Conditions clear	Spraying Time 8-5
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Targeted Species Whitetop / mullen / hands tongue
Thistle

Type of Site Treated: Rangeland Industrial Ag Crop ROW Turf

Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied
escort	432-1549	1/2	3.25
Telar	432-1561	1/2	3.25
locktite		32/100	78
Defoamer		1/2	3.25

Method of Application ATV UTV Truck Tractor Backpack Horse Other

Gallons per acre: 40 Dilution used: water Number of Applicators: 4
Truck Number: 5 ATV/UTV number: Wleamo Billable Hours: 7:00-5:00 (2)

100g truck loads - 1	40 gal hand loads - 11
Escort - 1.5	E - 2.5 1.75
Telar - 1.5	T - .5 1.75 <u>1.5 load</u>
locktite - 32.5	LT - 13 45.5
	D - 1/2 1.75

Qualified Supervisor: _____ Date: 6-11-21

Applicator: John Krueger Shawn Andrews Date: 6/7/21

Commercial applicators are licensed by the Colorado Department of Agriculture

Brennan Guire

Osborn Industries LLC

Date: 6/7/21 2 of 2
 Job Name: 70 mile
 Address:

Equipment working properly	✓	Location Contact info: Notes:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	

Temperature 60-70	Wind 710	Direction W	Conditions Clear	Spraying Time 8-5
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Targeted Species: White Top/mullen ~~black~~ handstonge
Thistle

Type of Site Treated: Rangeland Industrial Ag Crop ROW Turf

Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied
Escort	432-1549	1/2	3.5
Telar	432-1561	1/2	3.5
Milestone	62719-SM	7	49
Lock-Lite		32/100	91
DeFarmer		1/2	3.5

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 40	Dilution used: Water		Number of Applicators: 4				
Truck Number: 5	ATV/UTV number: w/p		Billable Hours: 05				

40g hand loads - 11/11
 Escort - 1/2
 Telar - 1/2
 Milestone - 7oz
 Lock-Lite - 13
 De - 1/2

Qualified Supervisor: [Signature] Date: 6-11-21
 Applicator: [Signature] Date: 6/7/21

Commercial applicators are licensed by the Colorado Department of Agriculture

Brennan Geite Jada Krieger

Osborn Industries LLC

Date: 6/8/21	1 of 2
Job Name: Area 70 mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info:
Hoses serviceable	<input checked="" type="checkbox"/>	
Pumps serviceable	<input checked="" type="checkbox"/>	
Filters serviceable	<input checked="" type="checkbox"/>	
Tanks secured properly	<input checked="" type="checkbox"/>	
Proper PPE available	<input checked="" type="checkbox"/>	
Notes:		

Temperature	Wind	Direction	Conditions	Spraying Time
70-80	210	SW	Clear	7:00-2:30

Targeted Species	Whitetop / mullen / round tongue / yellow foal flax Thistle - Musk Bull scotch Canada
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Type of Site Treated:	<u>Rangeland</u>	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
E-scorp	432 1549	1/2		3	
Telar	432 1561	1/2		3	
lockite		32/100		65	
Defoamer		1/2		3	

Method of Application	ATV	<u>UTV</u>	<u>Truck</u>	Tractor	Backpack	Horse	Other
Gallons per acre:	40	Dilution used:	Water	Number of Applicators: 4			
Truck Number:	5	ATV/UTV number:	W/P	Billable Hours 630-745-8.25 x 4			

100g hand loads - 11	40g hand loads
E-1.5	E-1/2
T-1.5	T-1/2
LT-32.5	LT-13
D-1.5	D-1/2

Qualified Supervisor:	<u>[Signature]</u>	Date	6-11-21
Applicator:	<u>[Signature]</u>	Date	6/8/21

Commercial applicators are licensed by the Colorado Department of Agriculture
Brennan Guire

Osborn Industries LLC

Date: 6/8/21 2 of 2

Job Name: 20 mile

Address:

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info:			
Hoses serviceable	<input checked="" type="checkbox"/>	Notes:			
Pumps serviceable	<input checked="" type="checkbox"/>				
Filters serviceable	<input checked="" type="checkbox"/>				
Tanks secured properly	<input checked="" type="checkbox"/>				
Proper PPE available	<input checked="" type="checkbox"/>				
Temperature	Wind	Direction	Conditions	Spraying Time	
70-80	>10	SW	Clear	OS	
Targeted Species					
White-top / mullen / nards tongue / yellow toad / flax Thistle - Canada musk scotch Bull					
Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	1/2	2		
Telar	432-7561	1/2	2		
locktite		32/100	52		
Milestone	62719-519	7	42		
De foamer		1/2	2		
Method of Application	ATV	UTV	Truck	Tractor	
				Backpack	
				Horse	
				Other	
Gallons per acre:	40	Dilution used:	Water	Number of Applicators:	
				4	
Truck Number:	5	ATV/UTV number:	W/P	Billable Hours	
				OS	

40 g hand loads - 1111

E - 1/2

T - 1/2

LT - 13

M - 7

D - 1/2

* 14 oz milestone

Qualified Supervisor:

Date 6-11-21

Applicator:

Date 6/8/21

Commercial applicators are licensed by the Colorado Department of Agriculture

Osborn Industries LLC

Date: 6/9/21 1 of 2
 Job Name: 20 mile
 Address:

Equipment working properly	✓	Location Contact info: Notes:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	

Temperature	Wind	Direction	Conditions	Spraying Time
	710	SW	Clear	715 430

Targeted Species: Whitetop / mullen / hands tongue / road flax
 Thistle - Musk Bull Canada Scotch

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
Telar	432 1561	1/2		6.5	
Escort	432 1549	1/2		6.5	
Defoamer		1/2		3.5	
Locktite		32/100		91	

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre:	40	Dilution used:	Water	Number of Applicators: 4			
Truck Number:	5	ATV/UTV number:	W/P	Billable Hours 645 - 445 = 10			

100g loads-	40 g hand load-III	40g Boom load-III
T - 1.5	T - 1/2 1.5	T - 1.5 5
E - 1.5	E - 1/2 1.5	E - 1.5 5
D - 1.5	D - 1/2 1.5	D - 1/2 2
L - 32.5	L - 13 39	L - 13 52

Qualified Supervisor: [Signature] Date: 6-11-21
 Applicator: Bred Andrews Date: 6/9/21
Brennan Gure
 Commercial applicators are licensed by the Colorado Department of Agriculture
Jada Krueger

Osborn Industries LLC

Date: 6/9/21	2 of 2
Job Name: 20 mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info:			
Hoses serviceable	<input checked="" type="checkbox"/>				
Pumps serviceable	<input checked="" type="checkbox"/>				
Filters serviceable	<input checked="" type="checkbox"/>				
Tanks secured properly	<input checked="" type="checkbox"/>				
Proper PPE available	<input checked="" type="checkbox"/>				
Notes:					
Temperature	Wind	Direction	Conditions	Spraying Time	
	>10	SW	Clear	OS	
Targeted Species					
Whitetail mule deer, round tower, road flare					
Thistle, must, Bull, Scotch, Canada					
Type of Site Treated:					
<input checked="" type="checkbox"/> Rangeland <input type="checkbox"/> Industrial <input type="checkbox"/> Ag Crop <input type="checkbox"/> ROW <input type="checkbox"/> Turf					
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
Telar	432 1561	1/2		6.875	
Escort	432 1549	1/2		6.875	
Defoliant		1/2 / 100		6.875	
Lockite		32/100		81.5	
Milestone	62719-519	7		96.25	
Method of Application					
<input type="checkbox"/> ATV <input checked="" type="checkbox"/> UTV <input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tractor <input type="checkbox"/> Backpack <input type="checkbox"/> Horse <input type="checkbox"/> Other					
Gallons per acre: 40		Dilution used: Water		Number of Applicators: 4	
Truck Number: 5		ATV/UTV number:		Billable Hours OS	

40g hand loads - WHITT		Boom-1	
T- 1/2		T- 1.25	
E- 1/2		E- 1.25	
D- 1/2		D- 1.25	1.5
L- 13		L- 13	
M- 7		M- 17.86	

Qualified Supervisor: *[Signature]* Date: 6-11-21

Applicator: *[Signature]* Date: 6/9/21

Osborn Industries LLC

Date: 6-10-21	1 of 2
Job Name: 20 mile	
Address:	

Equipment working properly	✓	Location Contact info:			
Hoses serviceable	✓	Manda Kaurak			
Pumps serviceable	✓	Notes:			
Filters serviceable	✓	- Exhaust fan			
Tanks secured properly	✓	- 100% intake by exhaust			
Proper PPE available	✓	- Exhaust fan site			
Temperature	70°	Wind	-	Direction	
				Conditions	Clear
					Spraying Time 800-915
Targeted Species	Bane ground				
Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
Orest	432-1552	502		1.5	
Polaris	228-534	4802		≈15	
Esplimide	432-1516	502		1.5	
Crop oil	-	64oz/100gal		≈20	
Red dye	-	302/hunt		3	
Method of Application	ATV	UTV	Truck	Tractor	Backpack
				Horse	Other
Gallons per acre:	100	Dilution used: water		Number of Applicators: 1	
Truck Number:	Katie	ATV/UTV number: -		Billable Hours 730 - 12 12pm = 4.5	

30 gal sprayed

Qualified Supervisor:

Applicator:

Date 6-10-21

Date

Osborn Industries LLC

Date: 6-10-21	2 of 2
Job Name: 20mile	
Address:	

Equipment working properly	✓	Location Contact info: Notes: <i>air intake</i>
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	

Temperature 70°	Wind -	Direction -	Conditions Clear	Spraying Time 9:20-11:45
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Targeted Species *Burgomaster*

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
Oust	432-1552	602		3.6	
Tordon	62719-6	3202/acre		~20	
Crop oil	-	6402/acre gal		= 39	
Red dye	-	302 / tank		5	

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 100	Dilution used: water		Number of Applicators: 1				
Truck Number: <i>lake</i>	ATV/UTV number: -		Billable Hours <i>see pg 1</i>				

<i>40 gal</i>	+	<i>20 gal</i>	= <i>60 gal sprayed</i>
<i>Oust : 2.4</i>		<i>= 1.2</i>	
<i>Tordon : ~13</i>		<i>= 6.5</i>	
<i>Crop oil : 26</i>		<i>= 13</i>	
<i>loads: 1</i>		<i>loads: 1</i>	

Qualified Supervisor: <i>[Signature]</i>	Date: 6-10-21
Applicator: <i>[Signature]</i>	Date:

Osborn Industries LLC

#1791

Date: 9-24-21 of _____
 Job Name: 20 mile
 Address: _____

Equipment working properly	✓	Location Contact info:		
Hoses serviceable	✓			
Pumps serviceable	✓			
Filters serviceable	✓			
Tanks secured properly	✓			
Proper PPE available	✓			
Notes:				
Temperature	Wind 710	Direction W	Conditions Clear	Spraying Time 745-500

Targeted Species Bareground

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Oust	432-1552	6	14		
esplanade	432-1516	5	15		
Crop oil		54/100	192		
Red Dye		6	14		
Defoamer		1	3		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 100	Dilution used: water		Number of Applicators: 2				
Truck Number: 5	ATV/UTV number:		Billable Hours 645-515				

100 g loads-111
 O-6
 e-5
 C-64
 B-6
 D-1

Qualified Supervisor: [Signature] Date 9-10-21
 Applicator: [Signature] Date 9-24-21

Osborn Industries LLC

Date: 9-29-21 1 of 2
 Job Name: 20 mile
 Address:

Equipment working properly	✓	Location Contact info:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	
Notes:		

Temperature	Wind	Direction	Conditions	Spraying Time
50-60	710	W	cloudy	7:00-8:30

Targeted Species: Bareground

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Piper	59639-193	10	4		
esplanade	432-1516	5	2		
Spurlock		64/100	26		
Beetle		6	2.4		
Deframer		1	1		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
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Gallons per acre: 100 Dilution used: water Number of Applicators: 2
 Truck Number: 5 ATV/UTV number: Billable Hours 6:30-11:30

100 g loads 20 g loads
 P 2
 e 1
 B 13
 B 12
 D 1/2

Qualified Supervisor: [Signature] Date 10-1-21
 Applicator: [Signature] Date 9-29-21

Osborn Industries LLC

9
Date: 9-20-21 2 of 2
Job Name: 70 mile
Address:

Equipment working properly	✓	Location Contact info:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	
Notes:		

Temperature	Wind	Direction	Conditions	Spraying Time
50-60	710	west	Cloudy	830-430

Targeted Species: Musk Bull Canada + whistle, hounds + orange mullen

Type of Site Treated:	<u>Rangeland</u>	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Tordon	62191-36	32	96		
Soystick		32/100	39		

Method of Application: ☒ ATV ☐ Truck ☐ Tractor ☐ Backpack ☐ Horse ☐ Other

Gallons per acre: 40 Dilution used: Water Number of Applicators: 2

Truck Number: 5 ATV/UTV number: Poppy Billable Hours: _____

40 g hand loads - III
I-32
S-13

Qualified Supervisor: [Signature] Date: 10-1-21
Applicator: Sue Andrews Date: 9-20-21

Osborn Industries LLC

Date: 9-30-21 of _____
 Job Name: 20 mile
 Address: _____

Equipment working properly	✓	Location Contact info:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	
Notes:		

Temperature	Wind	Direction	Conditions	Spraying Time
50-60	710	W	cloudy	700-519

Targeted Species _____

Type of Site Treated:	<u>Rangeland</u>	Industrial	Ag Crop	ROW	Turf
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Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied
Tordon	62719-6	32	192
Soy Stick		32/100	78

Method of Application	ATV	<u>UTV</u>	Truck	Tractor	Backpack	Horse	Other
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Gallons per acre: 40 Dilution used: Water Number of Applicators: 2
 Truck Number: 5 ATV/UTV number: Poppy Billable Hours: 645-530

40 g Hand loads - LTI
 T-32
 S-13

Qualified Supervisor: [Signature] Date: 10-1-21
 Applicator: [Signature] Date: 9-30-21

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Osborn Industries LLC

Date: 10-1-21 1 of 2
 Job Name: 20 mile
 Address:

Equipment working properly	✓	Location Contact info:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	
Notes:		

Temperature 50-60	Wind 210	Direction SW	Conditions Cloudy	Spraying Time 730-830
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Targeted Species: Musk Canada Thistle Hounds-tongue
Mullen

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Tordon	62119-6	32	32		
Sag stick		32/100	13		
Escort		2	2		

Method of Application: ☐ ATV ☒ UTV ☐ Truck ☐ Tractor ☐ Backpack ☐ Horse ☐ Other

Gallons per acre: 40 Dilution used: Water Number of Applicators: 2
 Truck Number: S ATV/UTV number: Poppy Billable Hours: 630-500

40 g hand loads - ~~13~~
 T-32
 S-13
 E-2

Qualified Supervisor: [Signature] Date: 10-6-21
 Applicator: Suea Andrews Date: 10-1-21

Osborn Industries LLC

Date: 10-1-21 2 of 2
 Job Name: 20 mile
 Address:

Equipment working properly	✓	Location Contact info:		
Hoses serviceable	✓			
Pumps serviceable	✓			
Filters serviceable	✓			
Tanks secured properly	✓			
Proper PPE available	✓			
Notes:				
Temperature	Wind	Direction	Conditions	Spraying Time
50-60	710	W	cloudy	830-445
Targeted Species				
Type of Site Treated: <u>Rangeland</u> Industrial Ag Crop ROW Turf				
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied	
Tordon	62719-6	32	128	
Saysch		32/100	32	
Method of Application				
ATV <u>UTV</u> Truck Tractor Backpack Horse Other				
Gallons per acre: 40 Dilution used: Water Number of Applicators: 2				
Truck Number: 3 ATV/UTV number: Poppy Billable Hours				

Qualified Supervisor:

Applicator:

Date 10-6-21

Date 10-1-21

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Osborn Industries LLC

Date: 10-5-21 of _____

Job Name: 70 mile

Address: _____

Equipment working properly	✓	Location Contact info:
Hoses serviceable	✓	
Pumps serviceable	✓	
Filters serviceable	✓	
Tanks secured properly	✓	
Proper PPE available	✓	
Notes:		

Temperature	Wind	Direction	Conditions	Spraying Time
50-60	710	W	Clear	

Targeted Species: Musk carnella Thistle Roundstange mullen

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Jordon	627K-6	32	600		
Coro Saystich		32/100	97.5		

Method of Application: ATV ☒ UTV ☐ Truck ☐ Tractor ☐ Backpack ☐ Horse ☐ Other ☐

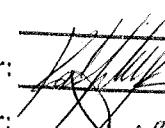
Gallons per acre: 40 Dilution used: Water Number of Applicators: 2


Truck Number: 5 ATV/UTV number: Poppy Billable Hours: 630-500

40g Boom load 60g Boom loads 111

T-40 T-720

S-13 S-19.5

Qualified Supervisor:  Date: 10-6-21

Applicator:  Date: 10-5-21

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