



Twentymile Coal, LLC

29515 Routt County Road 27
Oak Creek, CO 80467
970.879.3800

February 11, 2021

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), 2020 Annual Reclamation Report

Dear Ms. Lynch:

Enclosed is the 2020 Annual Reclamation Report (ARR) for the Foidel Creek Mine. During 2020, 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:

- MR20-316 – Wetland Disturbance Boundaries Modification (Submitted 01/06/2020 and approved 01/16/20, 7.3 acres new disturbance)
- TR20-94 – Coal Refuse Disposal Area Modification (Submitted 08/04/2020 and approved 11/16/2020, no new disturbance)
- MR20-317 – Overland Belt Suspension Bridge (Submitted 09/16/2020 and approved 10/1/2020, no new disturbance)
- TR20-95 - 16LT to 18 LT Dewater Pipeline, Powerline, and MCC Conex (Submitted 10/06/2020 and approved 12/18/2020, 4.5 acres new disturbance)

Changes in permitted, disturbed, and affected area acreages during 2020 included a total increase of 11.8 acres for permitted disturbed acreage resulting in a total of 786.8 acres disturbed. No additional acreage was added to the affected area or the permit boundary during 2020, 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 2020 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

- Completed additional field sampling for multi-year drainage basin level water quality and aquatic life study to support water discharge permit renewals and future discharge permitting
- 6MN passive treatment system functioned as designed and plants continue to develop.
- New Screening stoker coal build was completed for stocker coal screening and truck loading.
- Suspension bridge is being erected to stabilize the overland belt at the slide area.
-

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 “2020 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 during 2020 resulted in an overall increase in bond (\$25,731), increases in the calculated reclamation liability and required surety coverage, summarized as follows:

- MR20-316 – Wetland Disturbance Boundaries Modification (+\$10,084)
- MR20-317 – Overland Belt Suspension Bridge (+\$247)
- TR20-95 - 16LT to 18 LT Dewater Pipeline, Powerline, and MCC Conex (+\$15,400)

Attached is the standard form (CDRMS) Annual Reclamation Report for 2020 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: Ed Brady/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
2005-2019 Additions	293.80	

CUMULATIVE TOTAL 2020:

786.80

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

Date: 6-1-20	1 of 1
Job Name: 20 mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info: Manda Kaurat
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 60-85°	Wind <10mph	Direction W	Conditions Clear	Spraying Time 11am - 4:45
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Targeted Species	white top, houndstongue, mullein, thistle - canada, must
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Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	1oz	≈ 9.5		
Milestone	67719-519	7oz	66		
Liberate		32oz/100gal	48		

Method of Application	ATV	<u>UTV</u>	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 16	Dilution used: water		Number of Applicators: 1				
Truck Number: 6	ATV/UTV number: Ranger #1		Billable Hours 8-5pm = 9 hrs x 1 = 9				

50gal boom spray @ 4mph
Escort: 3.125
Milestone: ≈ 22
Liberate: 16
loads: 111

Qualified Supervisor: 	Date 6-1-20
Applicator:	Date

Osborn Industries LLC

#1494

Date: 01 June 20 1 of 2

Job Name: Peabody -

Address: 20 mile

Equipment working properly	✓	Location Contact info: <u>Miranda</u> Notes:		
Hoses serviceable	✓			
Pumps serviceable	✓			
Filters serviceable	✓			
Tanks secured properly	✓			
Proper PPE available	✓			
Temperature	Wind	Direction	Conditions	Spraying Time
76°	< 10 mph	W	Clear	10:00 - 11 am
Targeted Species <u>white top - hounds tongue -</u>				
Type of Site Treated: Rangeland <u>Industrial</u> Ag Crop ROW Turf				
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied	
Escort	432-154G	102/A	2.5	
Liberate	NA	3202/100G	13	
Method of Application ATV <u>UTV</u> Truck Tractor Backpack Horse Other				
Gallons per acre: 40G/A Dilution used: water Number of Applicators: 3				
Truck Number: #3 ATV/UTV number: Mute Polar's Billable Hours 8:00 - 5pm				

Hand Spray - loads - 1	Boom Spray
Escort 102	loads
Liberate 1302	13
	Escort 2.502
	Liberate 1302

Qualified Supervisor:

Date 6-1-20

Applicator:

Date 01 June 20

Commercial applicators are licensed by the Colorado Department of Agriculture

Osborn Industries LLC

Date: 01 June 20 2 of 2
 Job Name: 20 mile Peabody
 Address: _____

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info: <u>Miranda</u> Notes:
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"/>	

Temperature <u>76°</u>	Wind <u>810mph</u>	Direction <u>W</u>	Conditions <u>Clear</u>	Spraying Time <u>11:00 - 4:45</u>
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Targeted Species White top

Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
<u>Escort</u>	<u>432-1549</u>	<u>102.</u>	<u>202</u>		
<u>Tordon</u>	<u>62719-6</u>	<u>1602</u>	<u>3202</u>		
<u>Liberate</u>	<u>NA</u>	<u>320/100G</u>	<u>2602</u>		

Method of Application	ATV	UTV	<u>Truck</u>	Tractor	Backpack	Horse	Other
Gallons per acre: <u>40G/A</u>	Dilution used: <u>Water</u>		Number of Applicators: <u>2</u>				
Truck Number: <u>#3</u>	ATV/UTV number:		Billable Hours <u>8:00-5:00</u>				

<u>Escort 102</u>	<u>loads</u>
<u>Tordon 1602</u>	<u>11</u>
<u>Liberate 1302</u>	

Qualified Supervisor: [Signature] Date 6-1-20
 Applicator: [Signature] Date 01 June 20

Osborn Industries LLC

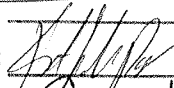
Date: 6-1-20	1 of 3
Job Name: 20 mile	
Address:	

Equipment working properly	X	Location Contact info: miranda					
Hoses serviceable	X						
Pumps serviceable	X						
Filters serviceable	X						
Tanks secured properly	X						
Proper PPE available	X						
Notes:							
Temperature	Wind	Direction	Conditions	Spraying Time			
80-90	<10	W	clear	9-1030			
Targeted Species							
white top Hounds 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	1oz	5oz 0.5				
liberate	-	32oz / 100g	5oz ~6.5				
Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 40 40		Dilution used: water		Number of Applicators: 2			
Truck Number: 1		ATV/UTV number:		Billable Hours 800-530			

100g hand spray loads-1 + 80g

escort - 2.5oz 2.0oz
liberate - 32oz 26oz

20 gal Sprayer

Qualified Supervisor:  Date 6-1-20
Applicator: Sweeney Andrews Date 6-1-20
Brennan Guite

Osborn Industries LLC

Date: 6-1-20	2 of 3
Job Name: 20 mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info: Miranda
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
80-90	<10	W	Clear	1030-130

Targeted Species	Thistle, Musk, Canada
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Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Tordon	62719-6	16 oz	24 oz		
esart	432-1549	1 oz	1.5		
liberap		32/1000g	~20		

Method of Application	ATV	UTV	<u>Truck</u>	Tractor	Backpack	Horse	Other
Gallons per acre:	40	Dilution used:	water	Number of Applicators: 2			
Truck Number:	1	ATV/UTV number:		Billable Hours other sheet			

24 per 60 - gal sprayed
16 per 40

Qualified Supervisor:	<i>[Signature]</i>	Date	6-1-20
Applicator:	Suea Andrews	Date	6-1-20
	Brennan Guire		

Osborn Industries LLC

Date: 6-1-20 3 of 3

Job Name: 20 mile

Address:

Equipment working properly	X	Location Contact info: Miranda					
Hoses serviceable	X						
Pumps serviceable	X						
Filters serviceable	X						
Tanks secured properly	X						
Proper PPE available	X						
Notes:							
Temperature	Wind	Direction	Conditions	Spraying Time			
80-90	10-10	W	Clear	130-500			
Targeted Species		thistle					
Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf		
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied				
milestone	62719-59	7oz	14oz				
escort	432-1549	1oz	2oz				
likecast	-	32/100gal	x26				
Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 40g	Dilution used: water		Number of Applicators: 2				
Truck Number: 1	ATV/UTV number:		Billable Hours other sheet				

14oz milestone 80g-1 sprayed

Qualified Supervisor:

Date 6-1-20

Applicator:

Sueva Andrews
Bremen Gure

Date 6-1-20

Osborn Industries LLC

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

Equipment working properly	✓	Location Contact info: Miranda Kawa		
Hoses serviceable	✓			
Pumps serviceable	✓			
Filters serviceable	✓			
Tanks secured properly	✓			
Proper PPE available	✓			
Notes:				
Temperature	Wind	Direction	Conditions	Spraying Time
80-90	410	W	Clear	12:00 - 5:00

Targeted Species: white top, thistle, Houndstongue, milkweed, Canada

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	1oz	.25oz		
Liberate	-	32oz/100gal	4oz		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre:	40	Dilution used:	Water	Number of Applicators: 2			
Truck Number:	6	ATV/UTV number:		Billable Hours 8:00-5:00 = 9 hr			

~~80g~~ hand spray loads 1

Escort - ~~2.00z~~ 2.00z

Liberate - ~~25.60z~~ 26.0z

Spray 10g

Qualified Supervisor:	<i>[Signature]</i>	Date: 6-1-20
Applicator:	<i>[Signature]</i> James Ellis	Date: 6-1-20

Osborn Industries LLC

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

Equipment working properly	✓	Location Contact info: Miranda		
Hoses serviceable	✓			
Pumps serviceable	✓			
Filters serviceable	✓			
Tanks secured properly	✓			
Proper PPE available	✓			
Notes:				
Temperature	Wind	Direction	Conditions	Spraying Time
40-90	410	W	Clear	6:30-12:00

Targeted Species: white top, mullen, houndstongue, musk, Canada 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 oz	1.36 oz		
Tordon	627-19-6	16 oz	22 oz		
Liberate		32/100 g	14 oz		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 40g	Dilution used: water		Number of Applicators: 2				
Truck Number: 6	ATV/UTV number:		Billable Hours 4:00-5:00				

• 70 mixed 55 gallons sprayed

Escort

Tordon 28 oz

Qualified Supervisor: [Signature] Date 6-1-20

Applicator: Misty Moody-Ellis Date 6-1-20

James Ellis

Osborn Industries LLC

Date:	02 June 20	1	of	5
Job Name:	Peabody			
Address:	20 mile			

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

Temperature	Wind	Direction	Conditions	Spraying Time
52°	<10 mph	NW	partly cloudy	7:30 - 11:00

Targeted Species	<u>white-top - must thistle - hounds tongue -</u> <u>Ball thistle -</u>
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Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	102/A	10oz.		
Tordon	62719-L	1602/A	152oz.		
Liberate	NA	3202p/100G	1602		

Method of Application	ATV	<u>UTV</u>	Truck	Tractor	Backpack	Horse	Other
Gallons per acre:	40G/A	Dilution used:	water	Number of Applicators: 2			
Truck Number:	ATV/UTV number:		Billable Hours 7:30a - 5:00				

<u>hand spray</u>	<u>Boom Spray</u>
Escort + 1.25 = 1.25	Escort 3.75 = 1.25 + 8.75
Tordon 20 oz = 20oz	Tordon - 44 = 88 + 22oz + 22oz = 132
Liberate 1302 ± 1302	Liberate 17 = 34 + 17oz = 51oz
<u>loads</u>	<u>loads</u>
1	11

Qualified Supervisor:	<u>[Signature]</u>	Date	6-2-20
Applicator:	<u>Dixie Carroll</u> <u>Chris Carroll</u>	Date	02-June-20

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Osborn Industries LLC

Date: 02 June 20 2 of 5

Job Name: Peabody

Address: 20 mile

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"/>	Notes:		
Filters serviceable	<input checked="" type="checkbox"/>			
Tanks secured properly	<input checked="" type="checkbox"/>			
Proper PPE available	<input checked="" type="checkbox"/>			
Temperature <u>60°</u>	Wind <u>10 mph</u>	Direction	Conditions <u>cloudy</u>	Spraying Time <u>11:00 - 4:45</u>
Targeted Species <u>White top</u>				
Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied	
<u>Telar</u>	<u>432-1561</u>	<u>102/A</u>	<u>13.7502</u>	
<u>Liberate</u>	<u>NA</u>	<u>3202/100G</u>	<u>85oz.</u>	
Method of Application				
ATV	<u>UTV</u>	Truck	Tractor	Backpack
Horse				
Other				
Gallons per acre: <u>40G/A</u> Dilution used: <u>Water</u> Number of Applicators: <u>2</u>				
Truck Number: <u>#3</u> ATV/UTV number: <u>Poppy New</u> Billable Hours <u>See pg 1</u>				

Telar - ~~2.75~~ 2.75

Liberate 1302

Boom Spray

loads

HH

Qualified Supervisor: [Signature]

Date 6-2-20

Applicator: [Signature]

Dylan Carroll
Chris Carroll

Date 02 June 20

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Osborn Industries LLC

Date: 6-2-20	3 of 5
Job Name: 20mi4	
Address:	

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

Temperature 55-80°	Wind 40MPH	Direction NW	Conditions PC	Spraying Time 8:30-4:30
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Targeted Species: whitetop, thistle, must, canuck, mullein

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	1	15		
Milestone	62719-519	7	106		
Liberate	—	32/100gal	77		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 16	Dilution used: water		Number of Applicators: 1				
Truck Number: 6	ATV/UTV number: Ranger #1		Billable Hours 800 - 430 = 9hrs x 12 = 108				

Boom @ 4mph 50gal mix

Escort : $3.125 \times 4 = 12.5 + 2.5 = 15$

Milestone $\approx 22 \times 4 = 88 + 218 = 106$

Liberate $\approx 16 \times 4 = 64 + 213 = 77$

loads: 1111 + 40g

Qualified Supervisor:	Date: 6-2-20
Applicator:	Date:

Osborn Industries LLC

Date: 6-2-20	4 of 5
Job Name: 20 Mile	
Address:	

Equipment working properly	/	Location Contact info: Miranda		
Hoses serviceable	/			
Pumps serviceable	/			
Filters serviceable	/			
Tanks secured properly	/			
Proper PPE available	/			
Notes:				
Temperature	Wind	Direction	Conditions	Spraying Time
50-85	< 10		P.C.	8:50 - 4:18

Targeted Species Musk & Canada Thistle, White Top, Hounds Tongue, Mullen

Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Escort	432-1549	1 oz	1.75 oz		
Milestone	62719-519	7oz	12.25 oz		
Liberate		32 oz / 100 gal	22.75 oz		

Method of Application	ATV	UTV	Truck	Tractor	Backpack	Horse	Other
Gallons per acre: 40	Dilution used: Water		Number of Applicators: 2				
Truck Number: 6	ATV/UTV number:		Billable Hours 7:30 - 4:30 = 9 hrs				

80 Gal Mixed loads - 1

Escort	2 oz
Milestone	14 oz
Liberate	26 oz

Qualified Supervisor: <u>[Signature]</u>	Date 6-5-20
Applicator: <u>James C Ellis</u> <u>Misty Moody Ellis</u>	Date 6-2-20 6-2-20

Date: 6-2-20	5 of 5
Job Name: 20 Mile	
Address:	

Equipment working properly	<input checked="" type="checkbox"/>	Location Contact info:			
Hoses serviceable	<input checked="" type="checkbox"/>	Miranda			
Pumps serviceable	<input checked="" type="checkbox"/>	Notes:			
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	
50-85	< 10		P.C.	8:30-9:50	
Targeted Species	Musk & Canada Thistle, White Top, Hounds Tongue, Mullen				
Type of Site Treated:	Rangeland	Industrial	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre		Total Product Applied	
Escort	432-1549	1 oz		.375 oz	
Tordon	627-19-6	16 oz		6 oz	
Liberate		32% 100 Gal		5 oz	
Method of Application	ATV	UTV	Truck	Tractor	Backpack Horse Other
Gallons per acre:	40 Gal	Dilution used:	Water	Number of Applicators:	2
Truck Number:	6	ATV/UTV number:		Billable Hours	7:30 - see other page

Date 6-3-20

Date 6-2-20

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Osborn Industries LLC

#1535

PO# 452931229

Date: 6-24-20	1 of 1
Job Name: 20 mile	
Address:	

Equipment working properly	x	Location Contact info: Miranda
Hoses serviceable	x	
Pumps serviceable	x	
Filters serviceable	x	
Tanks secured properly	x	
Proper PPE available	x	
Notes: 2 took extra 30 min lunch so dont charge		

Temperature 70-90	Wind <10	Direction W	Conditions clear	Spraying Time 600-430
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Targeted Species	whitetop, mullen, hands tongue, road flax Musk, Bull, Canada, Scotch thistle
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Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
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Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied
escort	432-1549	102	1202
milestone	62719-519	702	8402
liberate		321100g	8402 15602

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: 4
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Truck Number: 1	ATV/UTV number: 2	Billable Hours: 2
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40 g hand loads - 11

escort - 102

Milestone - 702

liberate - 1302

Srea + Brennan - 10 hr

Jim + Mistry 8 hr

Qualified Supervisor:

Date 6-25-20

Applicator:

Date 6/24/20

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Brennan Guise

Osborn Industries LLC

#1566

Date: 8/6/20	1 of
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 80-90	Wind <10	Direction W	Conditions Clear	Spraying Time 7:20-4:30
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Targeted Species	thistle, canada, mush, Bull, scotch, mullem, toadflax, Houndstonge
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Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
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Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied
Tordon	62719-6	32 oz	584 oz
Brewer	-	32/100g	110.5 oz

Method of Application	ATV	<u>UTV</u>	Truck	Tractor	Backpack	Horse	Other
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Gallons per acre: 40/16	Dilution used: water	Number of Applicators: 2
Truck Number: 5	ATV/UTV number: 2	Billable Hours 7:00-4:45-9:75x2

40 g hand load-11	40 g Boom load-11
Tordon 32 oz	Tordon - 80 oz
Brewer 13 oz	Brewer - 13 oz
	1/2
	520
	84.5

Qualified Supervisor:

Date 8-7-20

Applicator:

Date 8/6/20

Brennan Gule

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Osborn Industries LLC

452931229

#1582

Date: 9/25/20 1 of 1
 Job Name: 20 mile
 Address:

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

Temperature 60-80	Wind <10	Direction W	Conditions Clear	Spraying Time 850 - 420
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Targeted Species: **Bare ground**

Type of Site Treated:	Rangeland	<u>Industrial</u>	Ag Crop	ROW	Turf
Chemical Name	EPA Reg #	Applied Amount / Acre	Total Product Applied		
Tordon	62719-6	64	160		
P Crop oil	-	64/100g	160		
Piper	59639-193	10oz	25		
Red Dye	-	6oz	15		
DeFoamer	-	1oz	2.5		

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 830 - 430 = 11x2

100g loads - 11 1/2 = 22

Qualified Supervisor: *[Signature]* Date: 9-28-20
 Applicator: **Stefan Gwre** Date: 9/25/20
Snee Knobrows