

Kathy Vertiz  
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## Quantitative Vegetation Survey Report

<b>COGCC Location Name (ID)</b>	PRATHER-69S97W /5SESE (336420)
<b>Operator Location Name</b>	P05 997
<b>COGCC Operator Name (Operator #)</b>	Caerus Oil and Gas LLC (10456)
<b>Legal Description</b>	SESE Sec. 5 T9S-R97W
<b>Geographic Coordinates (WGS84)</b>	39.297012/-108.23653

Ms. Vertiz,

Confluence Compliance Companies LLC (Confluence) is presenting this report to Caerus Oil & Gas LLC (Caerus) documenting the results of a quantitative vegetation survey (survey) completed at the above-referenced location. The survey was conducted to evaluate the status of the reclaimed location (reclaim) by comparing reclaim vegetation cover and composition with the designated reference area (reference). The survey is used alongside a site evaluation to determine if the location meets the following regulatory criteria;

1. Vegetative cover requirements for final reclamation in Colorado Oil & Gas Conservation Commission (COGCC) Rule 1004.d <sup>[1]</sup>
2. Final abandonment requirements as set forth in the Department of Interior (DOI) 43 CFR Part 3160 <sup>[2]</sup>
3. Final abandonment requirements as set forth in the Bureau of Land Management (BLM) Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development – The Gold Book <sup>[3]</sup>

Included with this report is a review of the methodologies used to evaluate the reclaimed surface, results of those evaluations, and recommendations for how to proceed with the information presented in this report. Attached is a summary of field data, topographic location map, reclamation survey site diagram, vegetation assessment photo log, relative foliar species abundance table, and vegetation survey results that illustrate survey findings.

### Methods

The survey methodology employed by Confluence is the line-point intercept method with plot-level species inventories conducted in accordance with the Monitoring Manual for Grassland, Shrubland and Savanna Ecosystems (Volume 2) <sup>[4]</sup>. Prior to conducting the field evaluation, a desktop review of available records and historical aerial imagery is performed to define and map all portions of the reclaimed surface and identify and map comparable reference areas. Reference area(s) are selected to ensure that comparative assessments are conducted in areas not previously impacted by oil and gas operations or other surface disturbing activities, have similar slope and aspect to the reclaimed surface, and are reflective of pre-disturbance conditions for the referenced location to the extent practicable. When on-site, preliminary reclaim and reference transect locations selected during the desktop review are confirmed based on observed site conditions. Transect locations are selected to best represent the

vegetative cover and species composition of the respective areas, and to limit subjectivity of field personnel.

Vegetation cover data is collected at 50 survey points along each transect. Foliar and basal cover, along with non-vegetated and noxious weed occurrences, are documented at each survey point. Typically, two transects are completed in the reclaim and reference areas, for a total of 100 survey points in both areas. Survey point data is documented in the Vegetation Survey – Field Data Tables. Photographs are collected throughout the survey to document site conditions and depict transects. These photos are included in the Vegetation Assessment Photo Log. The Reclamation Survey Site Diagram illustrates transect locations as well as photo collection points.

Noxious weeds listed by the Colorado Department of Agriculture are excluded from the percent of reference vegetative coverage calculations, per COGCC Rule 1004.d. To ensure reclamation vegetative composition meets stakeholder standards, undesirable cover is also quantified in the attached summary of field data. Undesirable cover includes species identified by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) as introduced and not native to the lower 48 states, and not considered beneficial for reclamation purposes. All other vegetation not classified as noxious or undesirable, is identified by growth habit (grass, forb, shrub) and is considered desirable vegetative cover.

## Results

The survey was conducted on July 21, 2022, with the following findings:

Reclaim Vegetation Cover Type	Cover (%)	Reference Vegetation Cover Type	Cover (%)
Desirable Foliar Cover	2.0	Desirable Foliar Cover	1.0
Undesirable Foliar Cover	47.0	Undesirable Foliar Cover	27.0
Noxious Weed Foliar Cover	1.0	Noxious Weed Foliar Cover	20.5
<b>Desirable vegetation comparison (reclaim/reference*100)</b>			<b>200%</b>

Please see the attachments for detailed survey results, including a summary of field data, relative foliar species abundance tables, and field data tables.

## Analysis and Recommendations

No reclamation maintenance is recommended for this location as undesirable and noxious weed species identified in the reclaimed surface are common in the reference area and vegetation establishment is uniform. No list A or B noxious weeds were identified on the reclaimed surface. Based on the results of the survey, final reclamation is found to be successful and vegetation cover has been established that approximates adjacent reference area conditions with a total plant cover of at least 80% of the reference area. Submittal of a Final Abandonment Notice (FAN) and Form 4 (Final Reclamation Completion Notice) is recommended to document successful completion of final reclamation and notify regulators that the site is ready for final reclamation inspections.



Confluence appreciates the opportunity to provide environmental consulting services on this project. If you have any questions about our methodology, the results of this assessment, or our conclusions, please let me know.

Respectfully,



Chris Jones  
Reclamation Program Manager  
970-749-6965 (M)  
[Chris.Jones@confluence-cc.com](mailto:Chris.Jones@confluence-cc.com)

## Attachments

- Quantitative Vegetation Survey – Summary of Field Data
- Topographic Location Map
- Reclamation Survey Site Diagram
- Vegetation Assessment Photo Log
- Quantitative Vegetation Survey Transect Detail – Species Abundance Tables
- Quantitative Vegetation Survey Transect Detail – Field Data Tables

## References

1. Department of Natural Resources, Colorado Oil and Gas Conservation Commission. “Rules and Regulations”, April 30, 2022, [Complete Rules \(100 - 1200 Series\) \(state.co.us\)](#).
2. Department of the Interior, Bureau of Land Management. “43 CFR Subpart 3160 - Onshore Oil and Gas Operations: General”, 1983, [eCFR :: 43 CFR Part 3160 -- Onshore Oil and Gas Operations](#).
3. Department of the Interior, Bureau of Land Management. “Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development – The Gold Book”, 2007, [The Gold Book | Bureau of Land Management \(blm.gov\)](#).
4. Herrcik, Jeffrey E, et al. “Monitoring Manual for Grassland, Shrubland and Savanna Ecosystems.” Monitoring Manual, 2nd Edition, USDA - ARS Jornada Experimental Range, 2009, <https://aim.landscapetoolbox.org/wp-content/uploads/2015/08/Monitoring-Manual-Volume-II.pdf>.



## Quantitative Vegetation Survey - Summary of Field Data

<b>Client</b>	Caerus Oil and Gas (10456)
<b>Operator Location</b>	P05 997
<b>Reclamation Phase</b>	Final Reclamation
<b>API</b>	05-077-08459
<b>BLM Area</b>	White River Field Office
<b>Latitude/Longitude</b>	39.297012/-108.23653
<b>Assessment Date</b>	7/21/2022
<b>Inspector Name</b>	Alex Slorby

Based on the survey methodology, the desirable foliar cover (%) in each survey area is calculated by summing the total number of foliar occurrences (#), excluding noxious weeds and undesirable species, and dividing by the total possible foliar occurrences in the transects (100). For this location:

### Reclaim Area Vegetation

**Desirable Foliar Cover = 2%**

$$(2 + 0 + 0) / 100 = 0.02$$

### Reference Area Vegetation

**Desirable Foliar Cover = 1%**

$$(1 + 0 + 0) / 100 = 0.01$$

For the purposes of this assessment, the undesirable foliar cover (%) in each survey is calculated by summing the total number of undesirable\* foliar occurrences (#), excluding noxious weeds, and dividing by the total possible foliar occurrences in the transects (100). For this location:

**Undesirable Foliar Cover = 47%**

$$47 / 100 = 0.47$$

**Undesirable Foliar Cover = 27%**

$$27 / 100 = 0.27$$

The percent of reference used to evaluate the reclamation area for compliance with COGCC Rule 1003.e(2) is calculated by dividing the desirable foliar cover (%) in the reclaim area by the desirable foliar cover (%) in the reference area, excluding noxious weeds. For this location:

**Percent of Reference = 200%**

$$2\% / 1\% = 200\%$$

### Reclaim Area Vegetation

Cover Type	#	Overall Cover
<b>Desirable Foliar Cover</b>	<b>2</b>	<b>1.0%</b>
Grass	2	1.0%
Forb	0	0.0%
Shrub	0	0.0%
<b>Desirable Basal Cover</b>	<b>1</b>	<b>0.5%</b>
Grass	1	0.5%
Forb	0	0.0%
Shrub	0	0.0%
<b>Undesirable* Cover</b>	<b>65</b>	<b>32.5%</b>
Foliar	47	14.0%
Basal	18	4.0%
<b>Unvegetated</b>	<b>130</b>	<b>65.0%</b>
Bare Ground	46	23.0%
Litter	79	39.5%
Rock	5	2.5%
<b>Noxious Weeds Cover</b>	<b>2</b>	<b>1.0%</b>
Foliar	2	1.0%
Basal	0	0.0%
<b>Quality Assurance Total</b>	<b>200</b>	<b>100%</b>

### Reference Area Vegetation

Cover Type	#	Overall Cover
<b>Desirable Foliar Cover</b>	<b>1</b>	<b>0.5%</b>
Grass	1	0.5%
Forb	0	0.0%
Shrub	0	0.0%
<b>Desirable Basal Cover</b>	<b>0</b>	<b>0.0%</b>
Grass	0	0.0%
Forb	0	0.0%
Shrub	0	0.0%
<b>Undesirable* Cover</b>	<b>40</b>	<b>20.0%</b>
Foliar	27	13.5%
Basal	13	6.5%
<b>Unvegetated</b>	<b>118</b>	<b>59.0%</b>
Bare Ground	19	9.5%
Litter	99	49.5%
Rock	0	0.0%
<b>Noxious Weeds Cover</b>	<b>41</b>	<b>20.5%</b>
Foliar	28	14.0%
Basal	13	6.5%
<b>Quality Assurance Total</b>	<b>200</b>	<b>100%</b>

\* Identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

## Topographic Location Map

Caerus Oil and Gas LLC

P05 997

(PRATHER-69S97W /5SESE)

COGCC Location ID: 312527

API: 05-077-08459

Lat. / Long.: 39.297012, -108.23653

SESE Sec. 5 T9S-R97W

Mesa County



Topographic map sourced from 2020 Earth Point using  
data provided by United States Geological Survey

Map created by Alex Siorby on 08/19/2022.

## Reclamation Survey Site Diagram

Caerus Oil and Gas LLC

P05 997

(PRATHER-69S97W /5SESE)

COGCC Location ID: 312527

API: 05-077-08459






Lat. / Long.: 39.297012, -108.23653

SESE Sec. 5 T9S-R97W

Mesa County



### Legend

-  Disturbance Area Boundary
-  Reclaimed Surface
-  Reclaim Transect
-  Reference Transect
-  Photo Point

Map created by Alex Slorby on 08/19/2022.



**Photo Point A - Reclaim Transect 1**



**Photo Point B - Reclaim Transect 2**



**Photo Point C - Reference Transect 1**



**Photo Point D - Reference Transect 2**

**Client** Caerus Oil and Gas (10456)  
**Operator Location** P05 997  
**Assessment Date** 7/21/2022  
**Inspector Name** Alex Slorby

### Transect Detail - Reclamation Area Observation Summary

Plant species indicated by red text include all State-listed noxious weeds and undesirable species identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

Observation Summary				
Life Cycle	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	49	49%	18	18%
Perennial	2	2%	1	1%
Unvegetated	49	49%	81	81%
<b>Grand Total</b>	<b>100</b>	<b>100%</b>	<b>100</b>	<b>100%</b>

Life Cycle	Species Code	Scientific Name	Common Name	Cover Type	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	B RTE	<i>Bromus tectorum</i>	Downy brome	Noxious List C	2	2%	0	0%
Annual	CHTE2	<i>Choripora tenella</i>	Blue mustard	Undesirable	21	21%	3	3%
Annual	ERTR13	<i>Eremopyrum triticeum</i>	Annual wheatgrass	Undesirable	19	19%	10	10%
Annual	KOSC	<i>Kochia scoparia</i>	Kochia	Undesirable	7	7%	2	2%
Annual	SIAL2	<i>Sisymbrium altissimum</i>	Tumblemustard	Undesirable	0	0%	3	3%
Perennial	LECI4	<i>Leymus cinereus</i>	Basin wildrye	Grass	2	2%	1	1%
Unvegetated	NA	NA	Litter	Unvegetated	28	28%	51	51%
Unvegetated	NA	NA	Bare Ground	Unvegetated	19	19%	27	27%
Unvegetated	NA	NA	Rock	Unvegetated	2	2%	3	3%

**Client** Caerus Oil and Gas (10456)  
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### Transect Detail - Reference Area Observation Summary

Plant species indicated by red text include all State-listed noxious weeds and undesirable species identified as introduced and non-native to the lower 48 states by the USDA NRCS not considered beneficial for reclamation purposes.

Observation Summary				
Life Cycle	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	39	39%	20	20%
Perennial	17	17%	6	6%
Unvegetated	44	44%	74	74%
<b>Grand Total</b>	<b>100</b>	<b>100%</b>	<b>100</b>	<b>100%</b>

Life Cycle	Species Code	Scientific Name	Common Name	Cover Type	Foliar Occurrence	Foliar Cover	Basal Occurrence	Basal Cover
Annual	B RTE	<i>Bromus tectorum</i>	Downy brome	Noxious List C	12	12%	7	7%
Annual	CHTE2	<i>Chorispora tenella</i>	Blue mustard	Undesirable	12	12%	2	2%
Annual	ERTR13	<i>Eremopyrum triticeum</i>	Annual wheatgrass	Undesirable	15	15%	10	10%
Annual	SIAL2	<i>Sisymbrium altissimum</i>	Tumblemustard	Undesirable	0	0%	1	1%
Perennial	CERE6	<i>Centaurea repens</i>	Russian knapweed	Noxious List B	6	6%	2	2%
Perennial	COAR4	<i>Convolvulus arvensis</i>	Field bindweed	Noxious List C	10	10%	4	4%
Perennial	POFE	<i>Poa fendleriana</i>	Muttongrass	Grass	1	1%	0	0%
Unvegetated	NA	NA	Bare Ground	Unvegetated	5	5%	14	14%
Unvegetated	NA	NA	Litter	Unvegetated	39	39%	60	60%
Unvegetated	NA	NA	Other	Unvegetated	0	0%	0	0%

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**Operator Location Information** P05 997  
**Assessment Date** 7/21/2022  
**Inspector Name** Alex Slorby  
**Transect Length (ft.)** 150

### Reclaim Transect 1

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
2	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
3	Unvegetated	NA	Unvegetated	Litter
4	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
5	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
6	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Blue mustard (Chorispora tenella) - SIAL2
7	Grass	Basin wildrye (Leymus cinereus) - LEC14	Unvegetated	Litter
8	Unvegetated	NA	Unvegetated	Litter
9	Unvegetated	NA	Unvegetated	Litter
10	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
11	Unvegetated	NA	Unvegetated	Litter
12	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
13	Grass	Basin wildrye (Leymus cinereus) - LEC14	Grass	Basin wildrye (Leymus cinereus) - LEC14
14	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
15	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2
16	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2
17	Unvegetated	NA	Unvegetated	Litter
18	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
19	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
20	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Bare Ground
21	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
22	Unvegetated	NA	Unvegetated	Litter
23	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
24	Undesirable	Kochia (Kochia scoparia) - KOSC	Unvegetated	Bare Ground
25	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Bare Ground
26	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
27	Unvegetated	NA	Unvegetated	Bare Ground
28	Undesirable	Kochia (Kochia scoparia) - KOSC	Undesirable	Kochia (Kochia scoparia) - KOSC
29	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Bare Ground
30	Unvegetated	NA	Unvegetated	Bare Ground
31	Unvegetated	NA	Unvegetated	Bare Ground
32	Undesirable	Kochia (Kochia scoparia) - KOSC	Undesirable	Kochia (Kochia scoparia) - KOSC
33	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
34	Unvegetated	NA	Unvegetated	Litter
35	Unvegetated	NA	Unvegetated	Litter
36	Unvegetated	NA	Unvegetated	Litter
37	Unvegetated	NA	Unvegetated	Litter
38	Unvegetated	NA	Unvegetated	Litter
39	Undesirable	Kochia (Kochia scoparia) - KOSC	Unvegetated	Litter
40	Unvegetated	NA	Unvegetated	Litter
41	Unvegetated	NA	Unvegetated	Rock
42	Unvegetated	NA	Unvegetated	Litter
43	Unvegetated	NA	Unvegetated	Bare Ground
44	Unvegetated	NA	Unvegetated	Litter
45	Undesirable	Kochia (Kochia scoparia) - KOSC	Unvegetated	Bare Ground
46	Unvegetated	NA	Unvegetated	Bare Ground
47	Unvegetated	NA	Unvegetated	Litter
48	Undesirable	Kochia (Kochia scoparia) - KOSC	Unvegetated	Litter
49	Unvegetated	NA	Unvegetated	Bare Ground
50	Unvegetated	NA	Unvegetated	Litter

**Client** Caerus Oil and Gas (10456)  
**Operator Location Information** P05 997  
**Assessment Date** 7/21/2022  
**Inspector Name** Alex Slorby  
**Transect Length (ft.)** 150

### Reclaim Transect 2

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
3	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
4	Unvegetated	NA	Unvegetated	Bare Ground
5	Unvegetated	NA	Unvegetated	Litter
6	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Tumblemustard (Chorispora tenella) - CHTE2
7	Unvegetated	NA	Unvegetated	Bare Ground
8	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
9	Unvegetated	NA	Unvegetated	Bare Ground
10	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
11	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
12	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
14	Unvegetated	NA	Unvegetated	Bare Ground
15	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
16	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
17	Unvegetated	NA	Unvegetated	Litter
18	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
19	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
20	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
21	Unvegetated	NA	Unvegetated	Bare Ground
22	Unvegetated	NA	Unvegetated	Litter
23	Unvegetated	NA	Unvegetated	Litter
24	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Tumblemustard (Chorispora tenella) - CHTE2
25	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
26	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
27	Unvegetated	NA	Unvegetated	Litter
28	Unvegetated	NA	Unvegetated	Litter
29	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
30	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Tumblemustard (Chorispora tenella) - CHTE2
31	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
32	Unvegetated	NA	Unvegetated	Bare Ground
33	Unvegetated	NA	Unvegetated	Bare Ground
34	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
35	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
36	Unvegetated	NA	Unvegetated	Bare Ground
37	Unvegetated	NA	Unvegetated	Rock
38	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Rock
39	Unvegetated	NA	Unvegetated	Litter
40	Unvegetated	NA	Unvegetated	Litter
41	Undesirable	Kochia (Kochia scoparia) - KOSC	Unvegetated	Litter
42	Unvegetated	NA	Unvegetated	Bare Ground
43	Unvegetated	NA	Unvegetated	Bare Ground
44	Unvegetated	NA	Unvegetated	Bare Ground
45	Unvegetated	NA	Unvegetated	Litter
46	Unvegetated	NA	Unvegetated	Litter
47	Unvegetated	NA	Unvegetated	Bare Ground
48	Unvegetated	NA	Unvegetated	Bare Ground
49	Unvegetated	NA	Unvegetated	Litter
50	Unvegetated	NA	Unvegetated	Litter

**Client** Caerus Oil and Gas (10456)  
**Operator Location Information** P05 997  
**Assessment Date** 7/21/2022  
**Inspector Name** Alex Slorby  
**Transect Length (ft.)** 150

## Reference Transect 1

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
2	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
3	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Bare Ground
4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Downy brome (Bromus tectorum) - BRTE
5	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
6	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4
7	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
8	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
9	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
10	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
11	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
12	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
13	Unvegetated	NA	Unvegetated	Litter
14	Unvegetated	NA	Unvegetated	Litter
15	Unvegetated	NA	Unvegetated	Litter
16	Unvegetated	NA	Unvegetated	Litter
17	Unvegetated	NA	Unvegetated	Bare Ground
18	Unvegetated	NA	Unvegetated	Litter
19	Unvegetated	NA	Unvegetated	Litter
20	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
21	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
22	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
23	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Unvegetated	Litter
24	Unvegetated	NA	Unvegetated	Bare Ground
25	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
26	Unvegetated	NA	Unvegetated	Litter
27	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
28	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Noxious List C	Downy brome (Bromus tectorum) - BRTE
29	Unvegetated	NA	Unvegetated	Bare Ground
30	Grass	Muttongrass (Poa fendleriana) - POFE	Unvegetated	Litter
31	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
32	Unvegetated	NA	Unvegetated	Litter
33	Unvegetated	NA	Unvegetated	Litter
34	Unvegetated	NA	Unvegetated	Litter
35	Unvegetated	NA	Unvegetated	Litter
36	Unvegetated	NA	Unvegetated	Litter
37	Unvegetated	NA	Unvegetated	Litter
38	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Noxious List C	Downy brome (Bromus tectorum) - BRTE
39	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
40	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
41	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Noxious List B	Russian knapweed (Centaurea repens) - CEREG
42	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
43	Noxious List C	Field bindweed (Convolvulus arvensis) - COAR4	Unvegetated	Litter
44	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Noxious List B	Russian knapweed (Centaurea repens) - CEREG
45	Unvegetated	NA	Unvegetated	Litter
46	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Noxious List C	Downy brome (Bromus tectorum) - BRTE
47	Noxious List B	Russian knapweed (Centaurea repens) - CEREG	Unvegetated	Litter
48	Noxious List C	Downy brome (Bromus tectorum) - BRTE	Unvegetated	Litter
49	Unvegetated	NA	Unvegetated	Litter
50	Unvegetated	NA	Unvegetated	Litter

**Client** Caerus Oil and Gas (10456)  
**Operator Location Information** P05 997  
**Assessment Date** 7/21/2022  
**Inspector Name** Alex Slorby  
**Transect Length (ft.)** 150

## Reference Transect 2

Point #	Cover Type - Foliar	Species - Foliar	Cover Type - Basal	Species - Basal
1	Unvegetated	NA	Unvegetated	Litter
2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
3	Unvegetated	NA	Unvegetated	Litter
4	Unvegetated	NA	Unvegetated	Litter
5	Unvegetated	NA	Unvegetated	Litter
6	Unvegetated	NA	Unvegetated	Bare Ground
7	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
8	Unvegetated	NA	Unvegetated	Litter
9	Unvegetated	NA	Unvegetated	Litter
10	Unvegetated	NA	Unvegetated	Bare Ground
11	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
12	Unvegetated	NA	Unvegetated	Litter
13	Unvegetated	NA	Unvegetated	Litter
14	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
15	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
16	Unvegetated	NA	Unvegetated	Litter
17	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
18	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
19	Unvegetated	NA	Unvegetated	Litter
20	Unvegetated	NA	Unvegetated	Litter
21	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Bare Ground
22	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
23	Unvegetated	NA	Unvegetated	Litter
24	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
25	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Bare Ground
26	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2
27	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Blue mustard (Chorispora tenella) - CHTE2
28	Unvegetated	NA	Unvegetated	Litter
29	Unvegetated	NA	Unvegetated	Litter
30	Unvegetated	NA	Unvegetated	Bare Ground
31	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
32	Unvegetated	NA	Unvegetated	Litter
33	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
34	Unvegetated	NA	Unvegetated	Litter
35	Unvegetated	NA	Unvegetated	Litter
36	Unvegetated	NA	Unvegetated	Litter
37	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Unvegetated	Litter
38	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
39	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
40	Unvegetated	NA	Unvegetated	Litter
41	Undesirable	Blue mustard (Chorispora tenella) - CHTE2	Undesirable	Tumblemustard (Chorispora tenella) - CHTE2
42	Unvegetated	NA	Unvegetated	Litter
43	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
44	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
45	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
46	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Unvegetated	Litter
47	Unvegetated	NA	Unvegetated	Litter
48	Unvegetated	NA	Unvegetated	Litter
49	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13
50	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13	Grass	Annual wheatgrass (Eremopyrum triticeum) - ERTR13