



Benga Mining Limited
12331 - 20 Avenue
Po Box 660
Blairmore, Alberta, T0K 0E0
Phone: +1 403 753 5160
Business Number 84170 9538

Benga Mining Limited operating as Riversdale Resources

August 12, 2016

Mr. Norm Van Vliet
Land Use Officer, Public Lands Act, South Region
Alberta Energy Regulator
Suite 1000, 250 – 5th Street SW
Calgary, Alberta T2P 0R4

RE: Benga Mining Ltd. – Grassy Mountain Coal Project: Public Lands Act Application

Dear Mr. Van Vliet,

Benga Mining Limited (Benga), a wholly owned subsidiary of Riversdale Resources Limited, is proposing to develop a 4.5 million clean tonnes per year steelmaking coal mine, referred to as the Grassy Mountain Coal Project (the Project).

Benga is currently applying for a Mineral Surface Lease (MSL) for the mining area, a Licence of Occupation (LOC) for the rail loadout facilities and adjacent access road and a Miscellaneous Lease (MLL) for the construction camp and adjacent portion of the overland conveyor/access road/powerline right of way.

The attached document constitutes the application for surface disposition in accordance with the *Public Lands Act*. Complete disposition application packages including applicable forms, sketch plans, Public Land Standing reports and consents from overlapping disposition holders are provided in [Appendix 1](#), [Appendix 2](#) and [Appendix 3](#), respectively.

Correspondence regarding this integrated application package should be directed to the attention of:

Steve Mallyon, Managing Director
Benga Mining Ltd.
(403) 563-6160
Steve.Mallyon@rivresources.com

or

Cal Clark, Manager Sustainability
Benga Mining Ltd.
12331 20th Avenue, Blairmore, Alberta T0K 0E0
(403) 562-7600
Cal.Clark@rivresources.com

Sincerely,
<Original signed by>

Steve Mallyon, Managing Director
Benga Mining Ltd.



Public Lands Act Application

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1. INTRODUCTION

Benga Mining Limited (Benga), a wholly owned subsidiary of Riversdale Resources Limited (Riversdale), is proposing to develop the Grassy Mountain Coal Project (the Project) located in southwest Alberta, approximately 150 km southwest of Calgary ([Figure 1-1](#)). The Project will involve a surface metallurgical coal mine (for steel making), a coal handling and preparation plant (CHPP) with associated infrastructure, an overland conveyor system, which will parallel an existing high grade access corridor and connect to a rail load-out facility, and a new section of rail track ([Figure 1-2](#)). An Environmental Impact Assessment (EIA) has been undertaken for the Project and applications in accordance with the *Coal Conservation Act* (CCA), *Environmental Protection and Enhancement Act* (EPEA) and *Water Act* were submitted to the Alberta Energy Regulator in August 2016. This integrated document submission is herein referred to as the EIA.

The Project is situated on both crown and freehold land; therefore, an application in accordance with the *Public Lands Act* is also required in order to obtain approval to carry out activities on crown land. The following document constitutes the application for surface disposition in accordance with the *Public Lands Act*. The layout of the report follows the requirements outlined on the applicable *Public Lands Act* forms including:

- Application for Surface Disposition;
- Environmental Field Report (EFR) Cover Document for all Dispositions 2.0;
- EFR Sites and Installations 3.0 Completion of Supplement A;
- EFR Access 4.0 Supplement B; and
- EFR Miscellaneous Use 7.0 Supplement E.

Complete disposition application packages including applicable forms, sketch plans, Public Land Standing reports and consents from overlapping disposition holders are provided in [Appendix 1](#), [Appendix 2](#) and [Appendix 3](#).

2. APPLICATION FOR SURFACE DISPOSITION

An overview of the Project development footprint is provided as [Figure 1-2](#). Benga is currently applying for a Mineral Surface Lease (MSL) for the mining area, a Licence of Occupation (LOC) for the rail loadout facilities and adjacent access road and a Miscellaneous Lease (MLL) for the construction camp and adjacent portion of the overland conveyor/access road/powerline right of way ([Figure 2-1](#)).

The following section includes the information required on the “Application for Surface Disposition” form that is required to apply for a disposition under the *Public Lands Act*. Sketch plans of the proposed MSL, LOC and MLL areas are included in [Appendix 1](#), [Appendix 2](#) and [Appendix 3](#).

2.1 Contact Information

Questions in regards to this application can be directed to:

Steve Mallyon
Managing Director
Benga Mining Limited
PO Box 660, 12331 – 20th Avenue
Blairmore, AB, Canada, T0K 0E0
Email: Steve.Mallyon@rivresources.com
Business: 403-563-6160

2.2 Lands Requested

The Project overlies both Crown and freehold land ([Figure 2-1](#)). In order to determine the boundaries of the dispositions to be requested, Benga has undertaken a review of the land ownership for the entire Mine Permit Boundary area that was proposed in the CCA application. A list of the freehold titles located within the proposed Mine Permit Boundary is provided in [Table 2-1](#).

Title No.	Owner	Legal Location				
		QTR	SEC	TWP	RGE	Meridian
161 002 147	Benga Mining Limited	NW	19	8	3	5
051 223 917	Donkersgoed Feeders Ltd. & Berdina Farms Ltd.	SW	19	8	3	5
161 005 571	Benga Mining Limited	NW	30	8	3	5
041 017 188	Private	SW	30	8	3	5
931 216 964	Private	SW	31	8	3	5
131 243 634 +1	Benga Mining Limited	pt. NW	2	8	4	5
081 457 306	Crowsnest Pass Golf & Country Club	pt. NW	2	8	4	5
131 235 727	Benga Mining Limited	pt. SW	2	8	4	5

Title No.	Owner	Legal Location				
		QTR	SEC	TWP	RGE	Meridian
021 022 477 +2	Crowsnest Pass Golf & Country Club	pt. SW	2	8	4	5
081 457 306	Crowsnest Pass Golf & Country Club	pt. SW	2	8	4	5
081 457 306	Crowsnest Pass Golf & Country Club	pt. NE	3	8	4	5
081 457 306 +1	Crowsnest Pass Golf & Country Club	pt. SE	3	8	4	5
081 457 306	Crowsnest Pass Golf & Country Club	pt. SE	3	8	4	5
131 235 727 +2	Benga Mining Limited	NW	11	8	4	5
131 235 728 +6	Benga Mining Limited	NW	11	8	4	5
131 235 727 +2	Benga Mining Limited	SW	11	8	4	5
131 235 728 +6	Benga Mining Limited	SW	11	8	4	5
131 236 676	Benga Mining Limited	NW	14	8	4	5
131 236 677	Benga Mining Limited	NW	14	8	4	5
131 236 676	Benga Mining Limited	pt. SW	14	8	4	5
131 236 677	Benga Mining Limited	pt. SW	14	8	4	5
131 236 674	Benga Mining Limited	NE	23	8	4	5
131 236 675	Benga Mining Limited	NE	23	8	4	5
131 236 674	Benga Mining Limited	SE	23	8	4	5
131 236 675	Benga Mining Limited	SE	23	8	4	5
151 261 447	Benga Mining Limited	NE	24	8	4	5
131 235 106	Benga Mining Limited	NW	24	8	4	5
131 235 107	Benga Mining Limited	NW	24	8	4	5
971 175 776	Private	SE	24	8	4	5
131 235 106	Benga Mining Limited	SW	24	8	4	5
131 235 107	Benga Mining Limited	SW	24	8	4	5
131 235 209	Benga Mining Limited	pt. NE	25	8	4	5
131 235 210	Benga Mining Limited	pt. NE	25	8	4	5
131 235 211	Benga Mining Limited	NW	25	8	4	5
131 235 212	Benga Mining Limited	NW	25	8	4	5

Title No.	Owner	Legal Location				
		QTR	SEC	TWP	RGE	Meridian
131 235 212	Benga Mining Limited	SE	25	8	4	5
131 235 211	Benga Mining Limited	SE	25	8	4	5
131 235 211	Benga Mining Limited	SW	25	8	4	5
131 235 212	Benga Mining Limited	SW	25	8	4	5
131 235 151	Benga Mining Limited	pt. NE	36	8	4	5
131 235 150	Benga Mining Limited	pt. NE	36	8	4	5
131 235 148	Benga Mining Limited	NW	36	8	4	5
131 235 149	Benga Mining Limited	NW	36	8	4	5
131 235 152	Benga Mining Limited	pt. SE	36	8	4	5
131 235 153	Benga Mining Limited	pt. SE	36	8	4	5
131 235 148	Benga Mining Limited	SW	36	8	4	5
131 235 149	Benga Mining Limited	SW	36	8	4	5

Note:

Private Names of individuals have been redacted.

The lands to be included within the MSL, LOC and MLL dispositions (herein referred to as the proposed surface dispositions) are outlined in [Table 2-2](#) and shown on [Figure 2-1](#). Sketch plans of the proposed disposition areas, following requirements outlined in the Government of Alberta’s guidance document “Content Requirements for Disposition Sketch Plans” are provided in [Appendix 1](#), [Appendix 2](#) and [Appendix 3](#).

Qtr/LS	Section	Township	Range	Meridian
Mineral Surface Lease				
pt.L05, pt.L06, pt.L09, pt.L10, NW, L15, pt.L16,	13	8	4	5
pt.L08, pt.L09, pt.L15, pt.L16	14	8	4	5
L10, L15	25	8	4	5

Table 2-2 Lands to be included in the proposed surface dispositions.				
Qtr/LS	Section	Township	Range	Meridian
L01, L08, L09, pt.L10, pt.L15, L16	26	8	4	5
L01, pt.L02, pt.L07, L08, pt.L09, pt.L10, pt.L14, pt.L15, pt.L16	35	8	4	5
L02, L07, L10, L15	36	8	4	5
pt.L13, pt.L14, pt. L15	31	8	3	5
pt.L02, pt.L03, pt.L04, pt.L05, pt.L06, pt.L12, pt.L13	6	9	3	5
SE, SW, pt.L09, pt.L10, pt.L11, L12, L13, pt.L14, pt.L16	1	9	4	5
SE, NE, pt.L03	2	9	4	5
pt.L01, pt.L02	11	9	4	5
pt.L03, pt.L04	12	9	4	5
Licence of Occupation				
pt.L03, pt.L06	2	8	4	5
pt.L09, pt.L10, pt.L15	3	8	4	5
Miscellaneous Lease				
pt.L03, pt.L04	14	8	4	5

Note:

L Denotes Legal Subdivision (LS)

pt. Denotes portion of area indicated

3. ENVIRONMENTAL FIELD REPORT COVER

3.1 Communications

As stated in [Section 2.1](#), the applicant is Benga Mining Limited.

Numerous environmental assessments for the Project were initiated in 2014 and undertaken throughout 2015 and into 2016 as part of the EIA. These assessments were undertaken on behalf of Benga by a number of environmental and engineering firms. Contact details for any questions related to the environmental assessment and engineering can be directed to:

Cal Clark
Manager Sustainable Development
Riversdale Resources
12331 – 20th Avenue
P.O. Box 660
Blairmore, Alberta T0K 0E0
Cal.Clark@rivresources.com
Business: 403-753-5160

3.2 Surface Location

A summary of lands to be included in the proposed surface dispositions is provided in [Table 2-2](#).

The mine is scheduled to begin pre-development activities in 2017 once licensing is complete, with the coal processing plant commissioning scheduled to come on-line in the third quarter of 2018. First commercial coal production is scheduled to begin January, 2019. Construction will occur in both frozen and non-frozen ground conditions throughout the life of the Project. Final reclamation will be initiated in early 2042 with mine closure in late 2045.

3.2.1 Land Standing Review

A Public Land Standing Report was obtained, for each of the proposed surface dispositions, from the Geographic Land Information Management and Planning System on August 10, 2016 and is provided in [Appendix 1](#), [Appendix 2](#) and [Appendix 3](#). Land reservations within the proposed disposition boundaries are presented in [Table 3-1](#) and [shown on Figures 3-1 and 3-2](#).

The proposed surface disposition boundaries are not located within a provincial grazing reserve or the Chungo Access Management Area; however, it is located within a FireSmart Community Zone. Benga has developed a fire control plan based on the FireSmart Wildfire Assessment System (see [Section C.7.6](#) of the EIA).

No Permanent/Research Sample Plots/Rangeland Benchmarks are located within 100 m of the proposed surface disposition boundary(s).

3.2.2 Stakeholders, Other Land Users

A summary of surface dispositions and associated conflicts within the proposed disposition areas are presented in [Table 3-2](#) and [Figure 3-3](#). Consents with holders of these overlapping dispositions are provided in [Appendix 1 \(MSL Application\)](#), [Appendix 2 \(LOC Application\)](#) and [Appendix 3 \(MLL Application\)](#).

Benga has been consulting with other land users in the area since 2013 and is working towards resolving stakeholder concerns as they arise. Key issues that have been raised through public engagement to-date, and where applicable, comments on how they have been resolved is provided in [Section G.4.0 \(Table 4.0-1\)](#) of the EIA.

The existing right of entry(s) (ROE) held by Devon Consol Canada (Devon) and located within the proposed MSL boundary ([Figure 3-3](#)) are administered by the Alberta Surface Rights Board. The Surface Rights Board has indicated that the transfer of the ROE's from Devon to Benga cannot occur until the Project's EPEA and CCA applications are approved and issued by the AER. Although shown on the sketch plans included in [Appendix 1](#) as being located within the MSL boundaries, the areas associated with these ROE's are excluded from the MSL application until such time as the ROE's have been transferred to Benga. Once the ROE's have been transferred to Benga, they will be closed and Benga will apply to have these areas included within the Project MSL.

Table 3-1 Reservations within the proposed disposition boundaries.				
Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
Mineral Surface Lease (Mining Area)				
CNT 090027	FireSmart Community Zone	Benga has prepared a fire control plan in accordance with the FireSmart Wildfire Assessment System (see Section C.7.6 of the EIA).	Disposition held by Forestry and Emergency Response Division of Environment and Sustainable Resource Development – Calgary Office	13-008-04 W5M; L08, NE 14-008-04 W5M; L01, L08, NE 26-008-04 W5M; SE, NE, L14 35-008-04 W5M; L10, L15 25-008-04 W5M; L02, L07, L10, L15 36-008-04 W5M; L13, L14, L15 31-008-03 W5M; SW, L02, L07, L12, L13 06-009-03 W5M; L09, L10, L16, SE, SW NW 01-009-04 W5M; L03, L06, L11, L14, SE, NE, 02-009-04 W5M; L01, L02, L03 11-009-04 W5M; L03, L04 12-009-04 W5M
CNT 860041	Potential Timber Disposal – to determine volumes and establish AU A.A.CC. within the McCrillivary Creek Misc. timber use area of the CS M.U.	There are no restrictions with use of this area. Main mitigation is to reclaim the area to equivalent capability as described in Section F of the EIA.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Blairmore Office – Land Use Area	L09, L10, L16, SE, SW NW 01-009-04 W5M; L03, L06, LS11, LS14, SE, NE, 02-009-04 W5M; L01, L02, L03 11-009-04 W5M; L03, L04 12-009-04 W5M
CNT 980012	Snowmobile Trails – managed/maintained by Crowsnest Economic Development Board	Mitigation measures to be determine in consultation with local trail users such as the Crow Snow Riders Snowmobile Club.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Blairmore Office – Land Use Area	L14 35-008-04 W5M; L02, L07, L12, L13 06-009-03 W5M; L03, L06 02-009-04 W5M; L01, L02, L03 11-009-04 W5M

Table 3-1 Reservations within the proposed disposition boundaries.				
Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
PNT 090084	Multiple Resource Concerns - This location may fall within an area of foothills fescue grassland, a very valuable native grassland type that is limited in remaining area.	Mitigation measures as described in Section 4.3.4 of CR #8 and Section E.8.5.1 of the EIA.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	SW 02-008-04 W5M 13-008-04 W5M; L08, NE 14-008-04 W5M; L01, L08, NE 26-008-04 W5M
PNT 090087	Multiple Resource Concerns - This location may fall within an area of foothills fescue grassland, a very valuable native grassland type that is limited in remaining area.	Mitigation measures as described in Section 4.3.4 of CR #8 and Section E.8.5.1 of the EIA.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	L02, L07, L12, L13 06-009-03 W5M; SE 35-008-04 W5M; NW, SE 01-009-04 W5M; L03, L06, L11, L14, NE, SE 02-009-04 W5M; L01, L02, L03 11-009-04 W5M; L03, L04 12-009-04 W5M
PNT 880617	Steep rolling topography. No agricultural dispositions are permitted with the exception of unimproved grazing.	In order to mitigate the concern associated with potential instability, Benga has developed mine design criteria based on the results of the geotechnical investigation and geological modelling (Section B.8.6 of the EIA). A Conservation and Reclamation Plan has been developed for the Project (Section F of the EIA), which outlines measures that will be utilized to return the land to equivalent capability.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	L01, L08, NE 26-008-04 W5M

Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
PNT 880618	Steep rolling topography. No agricultural dispositions are permitted.	In order to mitigate the concern associated with potential instability, Benga has developed mine design criteria based on the results of the geotechnical investigation and geological modelling (Section B.8.6 of the EIA).	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	L10, L15 25-008-04 W5M; L02, L07, L10, L15-36-008-04 W5M
PNT 880619	Steep rolling topography. No agricultural dispositions are permitted with the exception of unimproved grazing.	A Conservation and Reclamation Plan has been developed for the Project (Section F of the EIA), which outlines measures that will be utilized to return the land to equivalent capability.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	L08, L09, L16-14-008-04 W5M
PNT 930299	Grazing allotment area, no agricultural dispositions, grazing permits only. Gap Range Allotment.	Consultation has been undertaken with the grazing lease holders in the area (Section G of the EIA). A Conservation and Reclamation Plan has been developed for the Project (Section F of the EIA), which outlines measures that will be utilized to return the land to equivalent capability.	Disposition held by the Department of Sustainable Resource Development – Rocky Mountain Forest Reserve South Office – Rangeland District	L09, L10, L16, NW 01-009-04 W5M; L01, L02 11-009-04 W5M; L03, L04 12-009-04 W5M

Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
PNT 940130	Grazing allotment area, no agricultural dispositions, grazing permits only. Blairmore Gold Range Allotment.	Consultation has been undertaken with the grazing lease holders in the area (Section G of the EIA). A Conservation and Reclamation Plan has been developed for the Project (Section F of the EIA), which outlines measures that will be utilized to return the land to equivalent capability.	Disposition held by the Department of Sustainable Resource Development – Rocky Mountain Forest Reserve South Office – Rangeland District	L02, L07, L12, L13, SW 06-009-03 W5M; L14, NE, SE 35-008-04 W5M; L09, L10, L16, NW, SW, SW 01-009-04 W5M; L03, L06, LS11, L14, SE, NE 02-009-04 W5M
PNT 960092	Steep rolling topography. No agricultural dispositions are permitted with the exception of “Grazing Haying” - These lands best suited for grazing due to steep slopes ranging from 15% to >30%. Prime watershed protection along gold creek and fish habitat; potentially valuable for ungulate habitat and potential for reforestation under a multiple use plan.	In order to mitigate the concern associated with potential instability, Benga has developed mine design criteria based on the results of the geotechnical investigation and geological modelling (Section B.8.6 of the EIA). A Conservation and Reclamation Plan has been developed for the Project (Section F of the EIA), which outlines measures that will be utilized to return the land to equivalent capability.	Disposition held by the Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	L13, L14, L15 31-008-03 W5M

Table 3-1 Reservations within the proposed disposition boundaries.				
Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
Miscellaneous Lease (Construction Camp Area)				
PNT 900430*	Waste Disposal/Reclamation Site	Construction and Reclamation processes as discussed in Section 6.4 and 6.5 in order to return the land to equivalent capability. Utilization of waste storage (see Section 6.3) and spill response procedures (see Section C.7.6 of the EIA) that will reduce potential for contamination to enter the adjacent drainage.	Disposition held by the Department of Environment and Water	L03, L04, L15 14-008-04 W5M
Licence of Occupation (Rail Loop Area)				
CNT 090027	FireSmart Community Zone	Benga has prepared a Development of a fire control plan in accordance with the FireSmart Wildfire Assessment System (Section C.7.6).	Disposition held by the Forestry and Emergency Response Division of Environment and Sustainable Resource Development – Calgary Office	L03 02-008-04 W5M; L09, L10 03-008-04 W5M
PNT 090084	Multiple Resource Concerns - This location may fall within an area of foothills fescue grassland, a very valuable native grassland type that is limited in remaining area.	Mitigation measures as described in Section 4.3.4 of CR #8 and Section E.8.5.1 of the EIA.	Disposition held by the Lands Division of Department of Sustainable Resource Development – Pincher Creek Office – Rangeland District	SW 02-008-04 W5M NE 13-008-04 W5M NW 13-008-04 W5M NE 14-008-04 W5M SE 14-008-04 W5M NE 26-008-04 W5M SE 26-008-04 W5M

Reservation/ Activity Number	Conflict	Mitigation/ Action Required	Comment	Location within Proposed Surface Disposition Boundary
PNT900426*	Registered Historic Resource – Greenhill Mine Complex	A Historical Resource Impact Assessment has been undertaken (see Section E.13 of the EIA and Section 5.8 of CR #10).	Not listed in LSAS report.	pt.L03, pt.L06 02-008-04 W5M
RRD8711435	Highway 3	Benga has been in contact with Alberta Transportation as part of the rail loop development planning. This disposition is for the HWY 3 rerouting which is not planned for the near term. There are no outstanding concerns. The RRD will need to be amended in order to accommodate the LOC for the rail line.	Transportation	pt.L09, pt.L10 03-008-04 W5M
DRS850045	Blairmore Ranger Station; disposition listed as expiring in 2015/08/07	Impacted by development of the rail line and relocation of the golf course facilities. Benga has consulted with the local lands office and it was agreed that the access to the helicopter pad within the DRS would be rerouted as shown in CR #10, Figure 5.1-2 .	Disposition is held by the Blairmore Office, Lands Division Department of Sustainable Resource Development	pt.L10-03-008-04 W5M

Note:

* Not included in LSAS Report but shown on AEP's Disposition Spatial Processing Tool.

Table 3-2 Dispositions within the boundaries of the dispositions proposed by Benga.				
Disposition	Disposition Holder	Purpose	Location within Proposed Disposition Boundary	Status of Consent
Mineral Surface Lease				
CTPC 050124	Private	Coniferous Timber Permit	NW-01-009-04 W5M; L09, L16-02-009-04 W5M; L01-11-009-04 W5M; L04-12-009-04 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
DLO140170	1653488 Alberta Inc.	Water Intake	NE 13-008-04 W5M	Not required at this time, as disposition is under application has not been approved.
EZE830147	Altalink Management Ltd.	Powerline	L13-13-008-04 W5M; L15, L16-14-008-04 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
GRL 36801	Private	Grazing Lease	NE-31-008-03 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
GRL960066	Private	Grazing Lease	NW-31-008-03 W5M	Disposition listed as expiring in 2016/06/14. Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
GRP870052	Gold Creek Grazing Co-Op Ltd.	Grazing Permit	L08, L09, L16-14-008-04 W5M; L01, L08, L09, L15, L16-26-008-04 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
LOC141938	Benga Mining Ltd.	Access Road	L10, L15-25-008-04 W5M; L02, L10-36-008-04 W5M	None Required – Benga disposition.
MLL 1948	Devon Canada Corporation	Other Industrial	LSD 02, 07, 10, 15-14-008-04 W5M	Disposition listed as expiring in

Disposition ID	Holder	Disposition Type	Disposition Details	Notes
MSL043285	Devon Canada Corporation	Wellsite	L01, LS02-11-009-04 W5M	2008/09/15.
MSL801502	Devon Canada Corporation	Wellsite And Access Road	L13-01-009-04 W5M; L16-02-009-04 W5M; L01, L02-11-009-04 W5M; L04-12-009-04 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 1 .
PLA052764	Devon Canada Corporation	Pipeline	L02-11-009-04 W5M	
PLA800692	Lonlife Resources Ltd.; Norco Resources Limited; Canadian Natural Resources Limited; Opinac Exploration Limited	Pipeline	L13-01-009-04 W5M; L16-02-009-04 W5M; L01, L02-11-009-04 W5M; L04-12-009-04 W5M	
ROE156**	Devon Canada Corporation	Coal Mining	L10-25-008-04 W5M	Dispositions administered by Surface Rights Board, who will not transfer disposition to Benga until the Project receives EPEA and CCA approval.
ROE324**	Devon Canada Corporation	Coal Mining	N½LS05, S½L12-06-009-03 W5M	
ROE1169**	Devon Canada Corporation	Coal Mining	L04, L05-06-009-03 W5M; LS01, L08-01-009-04 W5M	
ROE8751**	Devon Canada Corporation	Coal Mining	L15-25-008-04 W5M; L02, L07, L10-36-008-04 W5M	
TFA 154961	Benga Mining Ltd.	AER Access Temporary – Industrial	NW 31-008-03 W5M; NW 06-009-03 W5M; SE 01-009-04 W5M	None Required – Benga disposition.
TFA 155858	Benga Mining Ltd.	AER Access Temporary – Industrial	N 13-008-04 W5M; W 13-008-04 W5M; SE 14-008-04 W5M	None Required – Benga disposition.
TFA 162596	Benga Mining Ltd.	AER Access Temporary – Industrial		None Required – Benga disposition.
TFA 162911	Benga Mining Ltd.	AER Access Temporary – Industrial	N-13-008-04 W5M	None Required – Benga disposition.

Table 3-2 Dispositions within the boundaries of the dispositions proposed by Benga.				
TPA 1677	Private	Trapping Agreement	L14, NE, SE 35-008-04 W5M L03, L06, L11, L14, NE, SE-02-009-04-W5M; L03-11-009-04-W5M; SE, SW, NW, L16, L09, L10, 01-009-04-W5M; SW, L02, L07, L12, L13-06-009-03 W5M; pt.LS3, pt. L04-12-9009- 04 W5M	Benga has notified the holder of the trapline. No formal consent required under the <i>Public Lands Act</i> .
TPA 2426	Private	Trapping Agreement	pt.L01, pt.L2-11-09-04 W5M; pt.L03, pt.L04- 12-09-04 W5M	Benga has notified the holder of the trapline. No formal consent required under the <i>Public Lands Act</i> .
Miscellaneous Lease				
No surface dispositions are present within the proposed MLL area.				
Licence of Occupation				
PLA000472	Atco Gas And Pipelines Ltd. (South)	Pipeline	pt. LS03, pt. LS06-02-008-04 W5M	Consent letter in accordance with AER Bulletin 2015-02 is included in Appendix 2 .
REC910007*	Crowsnest Pass Golf & Country Club	Non-Commercial Recreational Development	pt. LS09-03-008-04 W5M	Consent will be obtained prior to development of the project in accordance with AER Bulletin 2015-02. Benga has consulted with the Golf & Country Club, there are no outstanding issues related to this REC.

Notes:

* Not included in LSAS Report but shown on AEP's Disposition Spatial Processing Tool.

** Administered by the Surface Rights Board

3.2.3 Stakeholder Concerns

Benga has been undertaking an extensive public engagement and Aboriginal Consultation program for the Project, which was initiated in 2013 and is still ongoing as part of the regulatory process. The public engagement and Aboriginal Consultation programs are described in [Section G](#) and [H](#) of the EIA, respectively.

Benga has held three Public Forums and three Open Houses in the Crowsnest Pass to inform the public about the Project. Numerous meetings have also been held with the regional municipalities, local stakeholders, local residents and land owners, special interest groups, provincial and federal government agencies, senior cabinet ministers and specific individuals with concerns.

In addition to the Public Forums and Open House sessions, Benga has attended a local Trade Show in Blairmore and held numerous meetings with the municipalities in the region, particularly the specialized Municipality of Crowsnest Pass and the Municipal District of Ranchland.

Benga is working towards identifying and addressing stakeholder concerns as they are identified. Key issues that have been raised through public engagement to-date, and where applicable, comments on how they have been resolved is provided in [Section G.4.0 \(Table 4.0-1\)](#) of the EIA.

3.2.4 Integrated Planning

The Project is located in an area with significant historic mining activity. The proposed MSL boundary is located with consideration for the location of the coal resource and design requirements. Opportunities for use of existing clearings for the ancillary activities such as the rail loop, conveyor and construction camp were evaluated and facilities sited accordingly. The final location of the rail loop was determined based on discussions with various stakeholders. Additional information on the different alternatives evaluated for the Project is provided in [Section A.7](#) of the EIA.

3.2.5 Aesthetic Concerns

As stated in [Section G.4.0 \(Table G.4.0-1\)](#) of the EIA, some concerns have been raised regarding the visual impact of the Project. A majority of the concerns raised focussed on the visual impacts of the proposed load-out facility.

Benga presented two viable locations at which to site the load-out facilities to the community for consideration and discussion. These options, referred to as “the golf course option” and “the valley bottom option” (see [Section A.7.3](#) of the EIA). The community indicated a strong preference for the costlier “golf course option” and accordingly, Benga eliminated the valley bottom option from further consideration. In designing the golf course load-out facility, Benga incorporated input from the community in an effort to mitigate potential visual impacts. Members of the community frequently

voiced concerns that the load-out facility would be too visible from Highway 3. Accordingly, Benga redesigned the location of the load-out infrastructure to the back side of the rail loop, thereby moving the infrastructure further away from Highway 3. The site preparation (*i.e.*, grading) necessary to install load-out infrastructure in the proposed location will position the base of the load-out lower than the level of the highway, thereby reducing the relative height of the structure from Highway 3. To further obscure the view of the infrastructure from the highway and community, Benga will construct berms and plant vegetation around the perimeter of the railway. Benga will continue to engage in discussions with the community to address ideas for landscaping and other measures that would diminish concerns related to the visual impact of the load out infrastructure from the community's perspective.

In addition, a visual assessment of lighting around the rail load-out was undertaken and is provided in [Section 5.16](#) of [CR#1](#) (Air Quality) of the EIA. Several options for mitigation were identified and with the implementation of these mitigation measures it was determined that the visibility of operations will be low and the overall impact will be insignificant.

Visual impacts on what the mountain will look like post mining has been raised by the Piikani Nation. Benga has developed a Conservation & Reclamation Plan for the Project (see [Section F](#) of the EIA). The reclaimed lands will feature regionally compatible landforms and vegetation patterns that are ecologically functional and successional. The goal of the reclamation plan is to develop lands that are maintenance-free and self-sustaining. The landscape will evolve through seral states of initial revegetation to self-sustaining ecosystems, consisting of mature vegetation communities typical of the Subalpine or Montane Sub Regions of the Rocky Mountain Natural Region (Natural Regions Committee 2006). Although new landscapes will be created during development and reclamation of the Project, they will be integrated with the surrounding undisturbed lands.

3.2.6 Land and Resource Use Planning

Management plans and policies applicable to the area were discussed in [Section 4.2](#) and [5.3](#) of the Land Use Report ([CR#10](#)) of the EIA. The plans and policies applicable to the area include:

- Coal Development Policy (Alberta Energy 2015);
- Livingstone- Porcupine Hills Sub-Integrated Resource Plan (Alberta Forestry, Lands and Wildlife, 1987);
- Crowsnest Corridor Local Integrated Resource Plan (Alberta Forestry, Lands & Wildlife, 1991);
- South Saskatchewan Regional Plan (Alberta Government 2014); and
- South Saskatchewan River Basin Plan (Alberta Environment 2006).

The intent of these policies and planning initiatives are to help inform land use decisions. Through a review of regional policies and initiatives environmental issues and concerns have been identified and appropriate mitigation measures included in the design, construction, operation and reclamation plans for the Project. Therefore, development of the Project does not conflict with the intent of these policies and initiatives.

3.2.7 First Nations Consultation

A summary of Aboriginal Group consultation activities undertaken is provided in [Section H.1.1](#) of the EIA.

Benga has been consulting with Aboriginal Groups potentially affected by the Project and those less affected who may have views on the Project. Groups included in the consultation program were identified by the Alberta Aboriginal Consultation Office (ACO) and the Canadian Environmental Assessment Agency. The ACO did not issue a First Nations Consultation Number for the Grassy Mountain Coal Project as the project was initiated prior to the ACO issuing consultation numbers for EPEA applications.

Aboriginal groups identified as potentially affected by the Project are:

- Blood Tribe (Kainai Nation);
- Piikani Nation;
- Siksika Nation;
- Stoney Nakoda Nation:
 - Bearspaw;
 - Chiniki; and
 - Wesley.
- Tsuut'ina Nation.

Aboriginal groups that are expected to be less affected by the Project include:

- Ktunaxa Nation:
 - St. Mary's Indian Band;
 - Lower Kootenay Indian Band;
 - Tobacco Plains Indian Band; and
 - Akisq'nuk First Nation.
- Samson Cree Nation;

- Shuswap Indian Band;
- Foothills Ojibway First Nation;
- Métis Nation of Alberta; and
- Métis Nation of British Columbia.

3.3 Wildlife/Environmental Concerns

3.3.1 Key/Critical Wildlife Zones

The northern most portion of the proposed MSL is located in a Grizzly Bear Zone and the southern portion is located within a Mountain Goat and Sheep Range (Figure 3-4). The proposed LOC area is located in a Key Wildlife and Biodiversity Zone and Mountain Goat and Sheep Range, and the proposed MLL is located in a Mountain Goat and Sheep Range (Figure 3-4).

An assessment of the potential impacts to grizzly bears has been undertaken (Section 5.3.8 of CR #9 and Section E.9.3.7 of the EIA). It was predicted that with progressive reclamation as outlined in Section F of the EIA, the impacts on grizzly bears would be insignificant.

An assessment of the potential impacts to mountain goats has been undertaken (Section 5.4.6 of CR #9 and Section E.9 of the EIA). During the field assessments it was determined that there is no quality mountain goat habitat within the study area and no mountain goats were detected during the surveys conducted in 2014 or 2015.

An assessment of the potential impacts to bighorn sheep was also undertaken (Section 5.4.7 of CR #9 and Section E.9 of the EIA). Bighorn sheep were not identified during any of the wildlife surveys undertaken for the Project but are known to occur along Highway 3. Bighorn sheep may move through the mine permit boundary while travelling between winter and summer ranges, and therefore movement could be altered by the development of the overland conveyor. The conveyor has been designed to include wildlife crossings, which will mitigate the impact to wildlife movement (see Section 7.1.4 of CR #10 and Section E.9.5.1 of the EIA).

The Key Wildlife and Biodiversity Zones are a combination of key winter ungulate habitat and high potential for biodiversity (ESRD 2015). Key strategies for protection of these zones have been identified by ESRD 2015 and include minimizing vegetation clearing, minimizing activity in the winter, not creating new access and adhering to timing restrictions. The proposed LOC is located adjacent to areas of existing developments (*e.g.* golf course, Highway 3, the community of Blairmore), where only a minimal amount of new clearing will be required for development of the LOC.

3.3.2 Timing Constraints

The proposed MSL is located between Blairmore Creek and Gold Creek. Gold and Blairmore creeks are both classified as Class B watercourses under the Alberta *Water Act* Code of Practice for Watercourse Crossings. As all of their associated tributaries within the proposed MSL area are less than 2 km from their associated creeks they are also considered Class B watercourses. The timing constraints for Gold Creek and associated tributaries are May 1 to August 15 and September 16 to April 5. The timing constraint for Blairmore Creek and its associated tributaries is May 1 to August 15. Neither of the mainstems of Blairmore Creek or Gold Creek will be directly impacted by development of the Project; however, mine pit and waste rock disposal area development will encroach upon some tributaries of both watercourses (Figure 1-2). Assessments on the potential impacts of this development, on aquatic resources, were included in the following sections of the EIA:

- CR #4 and E.4 discuss potential impacts on hydrology;
- CR #5 and E.5 discuss potential impacts on water quality; and
- CR #6 and E.6 discuss potential impacts on fish and fish habitat.

There are no aquatic resource timing restrictions associated with the proposed MLL. Figure 2-1 indicates that the camp MLL encroaches upon an existing tributary to Blairmore Creek. The portion of tributary associated with this location has been substantially altered due to historical mining activities (*i.e.*, this area was once a drainage valley; however, was filled with legacy waste rock, with the surface reclaimed with vegetation). Currently, Alberta Environment and Parks holds a Protective Notation (PNT) for this drainage management system (PNT 900430 listed in Table 3-1). The LSAS report does not identify any restrictions associated with this PNT.

Construction of the rail line associated with the proposed LOC will require a crossing of Blairmore Creek, which has a timing restriction of May 1 to August 15. Benga is planning to construct a clear span crossing at this location.

Wildlife timing constraints are discussed in CR #9 and Section E.9.5.1 and E.9.5.2 of the EIA. To avoid disrupting nesting migratory and resident songbirds and raptors, in accordance with Alberta's *Wildlife Act* and Canada's *Migratory Birds Convention Act* (Regulation 12:1) and the *Species at Risk Act*, Benga will schedule vegetation clearing activities outside the April 15 to August 31 period. In the event that vegetation clearing must occur within the restricted activity period, pre-disturbance nesting surveys will be conducted by experienced avian biologists according to established sensitive species inventory guidelines (Government of Alberta 2013a). Any active nest sites encountered will be buffered with the recommended setback distances based on specific species requirements (Government of Alberta 2013b, Environment Canada 2015).

3.3.3 Species at Risk (Plants/Animals)

As part of the EIA undertaken for the Project, several wildlife and vegetation species that are at risk were identified to occur within the Project Area. The assessment on impact to these species at risk is provided in the EIA as follows:

- Wildlife – Sections 5.3 and 5.4 of CR#9 and Section E.9.3.6; and
- Vegetation – Section 4.2 and 4.3 of CR #8 and Section E.8.3.2.

The wildlife species at risk that were either recorded during field surveys undertaken for the EIA or reported in FWMIS within the boundary of the proposed MSL, and for which there is moderately to highly suitable habitat in the proposed MSL boundary, are outlined in Table 3-4. Incidental flyovers of birds (e.g., golden eagles) are not included, unless accompanied by a sign of habitat usage (e.g., breeding calls, confirmed nest). Measures to mitigate impact to these species are provided in Section 7.1.1 of CR #9 and Section E.9.5.1 of the EIA.

Table 3-4 Species at Risk that may occur in the proposed MSL boundary.			
Common Name	Provincial Status¹	Federal Status²	Key Habitat Requirements
<i>Amphibians and Reptiles</i>			
Columbia spotted frog	Sensitive	Not At Risk	Permanent water bodies in mixed coniferous/ subalpine forests; 995 - >2,150 m in elevation.
Long-toed Salamander	Sensitive	Not At Risk	Under rocks, rotting logs, debris; near ponds, lakes, streams.
Western toad	Sensitive	Special Concern	Ponds, streams, rivers, lakes; overwinter in sandy upland forest.
<i>Birds</i>			
Bald eagle	Sensitive	Not At Risk	Forages in lakes and rivers with treed shorelines. Nests in mature trees along the edges of forests.
Barred owl	Sensitive	-	Mature and old mixedwood forests, with large trees containing large cavities for nesting.
Common nighthawk	Sensitive	Threatened – SARA Schedule 1	Cutblocks, forest clearings, prairies, rock outcrops. Nests near logs, boulders, and shrubs.
Olive-sided flycatcher	May Be At Risk	Threatened – SARA Schedule 1	Semi-open coniferous/mixedwood forests along edges/openings, near water with tall trees/snags.

Table 3-4 Species at Risk that may occur in the proposed MSL boundary.			
Common Name	Provincial Status¹	Federal Status²	Key Habitat Requirements
Sora	Sensitive	-	Shallow and moderately deep water (marshes, ponds) with emergent vegetation.
Western wood pewee	Sensitive	-	Mature deciduous and mixed forests, forest edges, and riparian zones. Absent from dense forest.
Mammals			
American badger	Sensitive	-	Open spaces, grasslands, prairies, treeless slopes, riparian meadows.
Little brown myotis	Secure	Endangered – SARA Schedule 1	Roosts under loose bark on trees, tree cavities, buildings, bridges, caves. Forages near water.
Hoary bat	Sensitive	-	Open grassy areas in coniferous and deciduous forests. Forages near farmlands. Roosts in trees.
Bobcat	Sensitive	-	Coniferous/deciduous forests, brushy areas in coulees. Dens in rocky crevices, hollow logs.
Canada lynx	Sensitive	Not At Risk	Coniferous forest with downed woody debris and dense understory.
Wolverine	May Be At Risk	Special Concern	Large areas of remote wilderness in the foothills and mountains. Avoids human development.
Grizzly bear	Threatened	Special Concern	Open slopes, alpine meadows, cutblocks, burns, riparian areas, mature forest, and disturbed sites.

1 Alberta Wild Species General Status Listing (AEP 2010c)

2 COSEWIC/SARA status. Species with SARA status are indicated with SARA Schedule 1.

The wildlife species at risk that were either recorded during field surveys undertaken for the EIA or reported in FWMIS within a 1-km buffer around the centre of the proposed MLL, and for which there is moderately to highly suitable habitat in the proposed MLL boundary, are outlined in [Table 3-5](#). As with the MSL, incidental flyovers of birds (e.g., golden eagles) are not included, unless accompanied by a sign of habitat usage (e.g., breeding calls, confirmed nest).

The proposed MLL is located within a landscape characterized by open mixedwood, closed mixedwood, and closed spruce. However, the disposition itself is predominantly open grassland, with anthropogenic disturbance and a very small amount of riparian habitat and forest edge. The species indicated in [Table 3-5](#) are based on the habitat within the disposition. Measures to mitigate

impact to these species are provided in [Section 7.1.1 of CR #9](#) and [Section E.9.5.1 of the EIA](#).

Table 3-5 Species at Risk that may occur within the proposed MLL boundary.			
Common Name	Provincial Status¹	Federal Status²	Key Habitat Requirements
<i>Amphibians and Reptiles</i>			
Long-toed Salamander	Sensitive	Not At Risk	Under rocks, rotting logs, debris; near ponds, lakes, streams.
Western toad	Sensitive	Special Concern	Ponds, streams, rivers, lakes; overwinter in sandy upland forest.
<i>Birds</i>			
Common nighthawk	Sensitive	Threatened – SARA Schedule 1	Cutblocks, forest clearings, prairies, rock outcrops. Nests near logs, boulders, and shrubs.
Western wood pewee	Sensitive	-	Mature deciduous and mixed forests, forest edges, and riparian zones. Absent from dense forest.
<i>Mammals</i>			
Hoary bat	Sensitive	-	Open grassy areas in coniferous and deciduous forests. Forages near farmlands. Roosts in trees.
Grizzly bear	Threatened	Special Concern	Open slopes, alpine meadows, cutblocks, burns, riparian areas, mature forest, and disturbed sites.

1 Alberta Wild Species General Status Listing (AEP 2010c)

2 COSEWIC/SARA status. Species with SARA status are indicated with SARA Schedule 1.

The proposed LOC boundary is located near the golf course and adjacent to Highway 3. The habitat is predominantly cleared, with some open mixedwood, pine, and deciduous forest. The species indicated in [Table 3-6](#) are based on the habitat within the LOC boundary. Measures to mitigate impact to these species are provided in [Section 7.1.1 of CR #9](#) and [Section E.9.5.1 of the EIA](#).

Table 3-6 Species at Risk that may occur within the proposed LOC boundary.			
Common Name	Provincial Status¹	Federal Status²	Key Habitat Requirements
<i>Birds</i>			
Common nighthawk	Sensitive	Threatened – SARA Schedule 1	Cutblocks, forest clearings, prairies, rock outcrops. Nests near logs, boulders, and shrubs.
<i>Mammals</i>			
Little brown myotis	Secure	Endangered – SARA Schedule 1	Roosts under loose bark on trees, tree cavities, buildings, bridges, caves. Forages near water.

1 Alberta Wild Species General Status Listing (AEP 2010c)

2 COSEWIC/SARA status. Species with SARA status are indicated with SARA Schedule 1.

Twenty-two vegetation species identified within the boundaries of the proposed surface dispositions at the time of the field assessment were on the Alberta Rare Plant Tracking and Watch Lists (ACIMS 2014) (Table 3-7). Two species identified are federally listed by COSEWIC and SARA: *Pinus albicaulis* (whitebark pine) and *Pinus flexilis* (limber pine). Whitebark pine is listed as Endangered in Alberta and British Columbia under SARA Schedule 1. Limber pine was designated as Endangered throughout its range in Alberta and British Columbia by COSEWIC in November 2014. Measures to mitigate impact to these species are provided in the EIA in Section 4.2.6 and 5.2 of CR #8 and Section E.8.5.1.

In addition, portions of the proposed dispositions are located within an area covered by protective notations due to the potential presence of foothills fescue grassland (Table 3-1). Measures that will be utilized to mitigate impact to these grasslands are provided in the EIA in Section 4.3.4 of CR #8 and Section E.8.5.1.

Table 3-7 Rare Plants Occurrences in the proposed surface disposition boundary.

Scientific Name	Common Name	Rank or Conservation Status				
		GRANK ¹	SRANK ¹	Tracked ²	COSEWIC / SARA ³	Provincial ⁴
Vascular plants						
<i>Angelica dawsonii</i>	Yellow angelica	G4	S3	W	-	Sensitive
<i>Carex petasata</i>	Pasture sedge	G5	S1S2	Y	-	May be at risk
<i>Eriogonum cernuum</i>	Nodding umbrella-plant	G5	S2	Y	-	May be at risk
<i>Eucephalus engelmannii</i>	Elegant aster	G4G5	S3S4	W	-	May be at risk
<i>Phacelia hastata</i>	Silver-leaved scorpionweed	G5	S3	W	-	Sensitive
<i>Pinus albicaulis</i>	Whitebark pine	G3G4	S2	Y	Endangered	At risk (Endangered)
<i>Pinus flexilis</i>	Limber pine	G4	S2	Y	Endangered	At risk (Endangered)
<i>Piperia unalascensis</i>	Alaska bog orchid	G5	S2?	Y	-	Sensitive
Mosses and liverworts						
<i>Conocephalum salebrosum</i>	Liverwort	G5	S2	Y	-	May be at risk
<i>Dicranum tauricum</i>	Broken-leaf moss	G4	S1S2	Y	-	Sensitive
<i>Lophozia ascendens</i>	Liverwort	G4	S1	Y	-	May be at risk
<i>Lophozia longidens</i>	Liverwort	G5	S1	Y	-	May be at risk
<i>Lophozia wenzelii</i>	Liverwort	G4G5	S1	Y	-	May be at risk
<i>Pellia neesiana</i>	Liverwort	G5	S2	Y	-	-
<i>Racomitrium aciculare</i>	Moss	G5	S1	Y	-	Sensitive
<i>Schistidium tenerum</i>	Thread bloom moss	G5?	S2	Y	-	Sensitive
Lichens						
<i>Cladonia umbricola</i>	Shaded cladonia	G3G5	S1	Y	-	May be at risk
<i>Nodobryoria abbreviata</i>	Tufted foxtail lichen	G4?	S1	Y	-	May be at risk
<i>Peltigera cinnamomea</i>	Cinnamon dog pelt lichen	GNR	S2	Y	-	May be at risk

Table 3-7 Rare Plants Occurrences in the proposed surface disposition boundary.

Scientific Name	Common Name	Rank or Conservation Status				
		GRANK ¹	SRANK ¹	Tracked ²	COSEWIC / SARA ³	Provincial ⁴
<i>Umbilicaria americana</i>	American rock tripe lichen	G5?	S2S3	Y	-	May be at risk
<i>Vulpicida canadensis</i>	Brown-eyed sunshine lichen	G3G5	S2	Y	-	Sensitive
<i>Xylographa parallela</i>	Black woodscript lichen	G5	S2S4	Y	-	May be at risk

¹ GRANK refers to global conservation rank and SRANK refers to subnational conservation rank). See EIA CR #8, Section 1.6.3 for definitions of rankings.

² Y – species is tracked, W – species is watched (ACIMS 2014).

³ COSEWIC (2014), SARA (2014).

⁴ General Status of Alberta Wild Species database (Government of Alberta 2010). (Endangered) refers to Endangered under Alberta's *Wildlife Act* (Government of Alberta 2014).

3.4 Historical Resources

A Historical Resources Impact Assessment (HRIA) was undertaken and submitted to Alberta Culture. The HRIA is currently under review and Alberta Culture has indicated that clearance for the Project will not be granted until the EPEA and CCA approvals have been issued. Further discussion on historical resources can be found in [Section E.13](#) of the EIA.

3.5 Vegetation and Timber Cover

Vegetation within the MSL boundary includes forest (deciduous dominant, coniferous dominant and mixedwood) treed wetlands, cutblocks and grassy meadows. The proposed MSL area is within Forest Management Unit (FMU) C5 and C02. No Forestry Management Agreement (FMA) holders are located within these FMU's. Timber salvage is expected to commence in 2018 and continue through the life of the project as mining operations expand. Approximately 1,316 m² of coniferous timber and 114,550 m² of deciduous timber is present within the MSL boundary.

The proposed MLL is located in FMU CO2 in a previously developed area and only a small number of trees will need to be cleared during construction ([Figure 6-1](#)).

The proposed LOC is located in FMU CO1 and CO2 in an area adjacent to significant development ([Figure 5-1](#) and [5-2](#)). Approximately 50 m³ of deciduous timber and 600 m³ of coniferous timber is present in the LOC boundary.

A timber management plan for the Project is provided in [Section F.3.3](#) of the EIA. Timber volumes from crown land will be offered to the two main quota holders, Spray Lakes Sawmills (1980) Ltd. and Crowsnest Forest Products. Should these quota holders decline, the volumes will be made available to other interested parties.

3.6 Soil and Vegetation Management

The following sections outline soil sensitivities and topography within the boundary of the proposed dispositions, as well as problem vegetation/weeds/invasive species occurrence and management.

3.6.1 Soil and Topography

A Soil and Terrain Assessment was undertaken for the project and is provided in the EIA as [CR #7](#). The area has varying mountainous topography, with slopes ranging from Class 1 to Class 9 (0 to >45 degrees). Steeper slopes Classes between 7 and 9 (16.5- 45 degrees) are most prevalent in the northern portion of the proposed MSL boundary areas of the proposed disposition boundary with the southern portion of the proposed MSL boundary having slopes primarily between Class 6 and 7 (8 to 24 degrees). Surface expression varies across the area and includes sections of level, hummocky,

terraced and inclined expression. The proposed MLL and a majority of the LOC is located in previously disturbed area with variable topography due to existing development. Surface expression and slope class are further discussed in [Section 3.3](#) of [CR #7](#) in the EIA.

There are a few soil sensitivities within the mine area including, shallow depth to bedrock (bedrock at surface to depths <100 cm) and gravely and stony soils. Drainage ranged from very poor to very rapid. Very poor and well drained soils are located at the lower and mid slopes in the most southern portion of the proposed disposition area. Rapid to very rapidly drained areas are located throughout the area. These sensitivities have been considered during development of the Conservation & Reclamation Plan for the Project ([Section F](#) of the EIA), including the salvage and replacement of adequate material for use during reclamation (as discussed in [Section F.2.1.5](#) of the EIA) and the establishment of positive surface and subsurface drainage (as discussed in [Section F.4.4.1](#) of the EIA).

3.6.2 Problem Vegetation/Weeds/Invasive Species

During the vegetation survey undertaken as part of the EIA, nine noxious weeds, and 20 invasive vegetation species were identified within and surrounding the proposed surface disposition boundary ([Section 3.9](#) of [CR #8](#) of the EIA). The majority of the noxious and invasive species were observed in areas with existing disturbance (*i.e.*, pipelines, well sites, clearings, pastures, cutblocks, and along roads). A list of the noxious weeks identified in the MSL and their associated degree of infestation is provided in [Table 3-8](#). The location of noxious weeds found during the assessment is provided in the EIA in [CR #8](#), [Figure 3.9-1](#).

Scientific Name	Common Name	Degree of Infestation
<i>Bromus tectorum</i>	downy brome	Low
<i>Chrysanthemum leucanthemum</i>	ox-eye daisy	Moderate
<i>Cirsium arvense</i>	creeping thistle	Moderate
<i>Cynoglossum officinale</i>	hound's-tongue	NA
<i>Echium vulgare</i>	blueweed	Low
<i>Linaria dalmatica</i>	dalmatian toadflax	Low
<i>Linaria vulgaris</i>	common toadflax	Moderate
<i>Ranunculus acris</i>	tall buttercup	High
<i>Verbascum thapsus</i>	common mullein	High

Proposed clearing and construction activities have a moderate to high risk of increasing the spread of weeds on site. As required by the *Weed Control Act* and Regulations, noxious weed populations identified during baseline field sampling will be controlled prior to site disturbance and mine operation to prevent the further spread of weeds. Noxious weed management will occur in compliance with R&R/03-4 *Weeds on Industrial Development Sites* (Alberta Environment 2003).

3.7 Incidental Activities

Benga does not have any incidental activities associated with the proposed surface dispositions that will be located on crown land and required for temporary use. All facilities associated with the Project will be included in the MSL, LOC or MLL boundaries.

4. SITES AND INSTALLATIONS

In accordance with the *Public Lands Act*, Benga is requesting a Mineral Surface Lease (MSL) for the main mining area that is located on Crown land ([Figure 2-1](#)). The MSL application package including the a completed application form, sketch plans, the completed Environmental Field Report (EFR) forms, LSAS report and consent letters is provided in [Appendix 1](#).

4.1 Site Description

A description of the Grassy Mountain Coal Project is included in [Section C](#) of the EIA. Physical works in support of the Project that will occur within the proposed MSL boundary are shown on [Figure 1-2](#) and include:

- open pit truck and shovel mining operations area;
- waste rock disposal areas (north and south of the pit area, in addition to in-pit);
- internal haul roads;
- topsoil storage area; and
- water management structures.

The topography of Grassy Mountain consists of rounded hills at lower elevations with moderate to steep grade slopes at higher elevations. The regional area is characterized by relatively high relief, with numerous valleys where watercourses are present. The site has a history of coal mining with the presence of both legacy surface and underground mines ([Figure 4.4-1](#) in [CR#10](#) of the EIA). The legacy surface mine is currently inside the footprint of the new proposed open pit.

The proposed mine is a truck/shovel operation where the rock overlying the coal seams will be drilled, blasted and excavated by mining shovels. The overburden rock will be loaded into haul trucks and then transported to designated disposal areas. The uncovered coal is then placed into

trucks and hauled to the coal preparation plant for cleaning. The maximum pit depth is approximately 430 m at the north-central area of the pit. Mineable reserves total approximately 168 million RMT coal, or 92.6 million CMT, with 854 million BCM of overburden rock for an average product strip ratio of 9.2:1 BCM/CMT. Potential stability concerns that may influence construction procedures/requirements include:

- historic mining activities creating unstable slopes;
- steep grades;
- pit wall failures; and
- rock disposal area failures.

In order to mitigate the concern associated with potential instability, Benga has developed mine design criteria based on the results of the geotechnical investigation and geological modelling ([Section B.8.6](#) of the EIA).

4.2 Vehicle and Equipment Access

The MSL area will be accessed from an access road that parallels the overland conveyor ([Figure 1-2](#)). A majority of this access is through land owned by Benga. A small portion of the road (approximately 180 m) is located on Crown land as described in [Section 5](#). This portion of the access will be included as part of the LOC application.

4.3 Contamination Prevention

Blairmore Creek and Gold Creek are located to the west and east of the Project, respectively. Although Benga will maintain a 100 m vegetated buffer between mine development and these environmentally sensitive watercourses, the mine will encroach on tributaries to both Blairmore and Gold creeks (as outlined in [Section 3.3.2](#)).

The main potential mechanism for transport of deleterious materials from the site will be from surface runoff mobilizing the deleterious materials and transporting them to adjacent watercourses. Benga has included a comprehensive water management system in the mine design to reduce the potential for deleterious material to leave the site. These water management facilities are described in [Section C.5.3](#) of the EIA, and include:

- maintaining a 100 m vegetated buffer between mine development and Blairmore Creek and Gold Creek;
- the development of a series of collection ditches and sedimentation settling ponds (which release to either Gold Creek or Blairmore Creek);

- the development of a series of collection ditches and surge ponds (three ponds which are part of Selenium Management Plan that will not release to Gold Creek or Blairmore Creek); and
- the development of site wide drainage civil works.

In addition, Benga will develop an Environmental Protection Program for the Project based on the Project design, potential environmental risk and outcomes of the environmental assessment and regulatory review process. The goal for the Environmental Protection Program is to first prevent and second to minimize adverse environmental impacts resulting from mine related operations. A brief discussion illustrating how environmental impacts are prevented and/or minimized through each of these mechanisms is provided in [Section C.7.6](#) of the EIA.

4.4 Sumps

Benga does not anticipate the development of any sumps throughout the life of the Project.

4.5 Water Source

Proposed water supply sources and associated licensing are discussed in [Sections C.5.1](#) and [C.5.2](#) of the EIA.

4.6 Construction Strategy

As described in [Section F.3.1](#) of the EIA, development of the mine will require clearing existing vegetation from the Project Footprint. A timber management plan is provided in [Section F.3.3](#) of the EIA.

Soil conservation will be undertaken to ensure there will be sufficient volumes of suitable reclamation material to support the self-sustaining vegetation communities required to achieve the planned end land uses. A description of soil salvage and handling procedures is provided in [Sections F.2.1.5, F.3.4](#) and [F.4.2](#) of the EIA.

4.7 Reclamation Strategy

Proposed conservation and reclamation plans throughout the life of the project are presented in [Section F.3.6](#) of the EIA and the mine closure plan is presented in [Section F.4](#) of the EIA.

5. ACCESS

In accordance with the *Public Lands Act*, Benga is requesting a Licence of Occupation for the portions of the rail loop and a portion of the access road that are located on Crown land ([Figure 2-1](#)). Details of the proposed rail loop including infrastructure, operations, maintenance and decommissioning are provided in [Section C.3](#) of the EIA.

The LOC application package including the a completed application form, sketch plans, the completed Environmental Field Report (EFR) forms, LSAS report and consent letters is provided in Appendix 2.

5.1 Type of Access/Dimensions

There are three different portions of the rail loop that are located on crown land for a total length of approximately 1,000 m of track with a variable disturbance width due to the cut and fills requirements and 300 m of access road with approximate width of 20 m ([Figure 5-1](#) and [Figure 5-2](#)).

5.2 Topography

A Soil and Terrain Assessment was undertaken for the project and is provided in the EIA as [CR #7](#). A majority of the LOC is located in a previously disturbed area with variable topography that has been altered due to existing development. Topography within the proposed LOC area ranges from gentle to extreme (Class 4 to 8).

5.3 Watercourse Crossings

The proposed rail line will require a clear span crossing of Blairmore Creek, with no instream work required. Final crossing design has not yet been completed.

5.4 Construction Strategy

A significant portion of the proposed LOC area to be developed for the rail loop is located on previously developed land ([Figure 5-1](#) and [Figure 5-2](#)). Any merchantable timber found will be salvaged (as outlined in [Section F.3.3](#) of the EIA). Non-merchantable timber and slash materials will be left on the surface and will be incorporated into the soil during salvage operations. If there are excessive volumes of timber harvest residue that cannot be incorporated in the soil without degrading the soil quality, it will be separated and windrowed.

Soil conservation will be undertaken to ensure there will be sufficient volumes of suitable reclamation material to support the self-sustaining vegetation communities required to achieve the planned end land uses. A description of soil salvage and handling procedures is provided in [Sections F.2.1.5, F.3.4](#) and [F.4.2](#) of the EIA.

5.5 Reclamation Strategy

The LOC will be reclaimed using the same practices and procedures outlined in [Section F.3.6](#) of the EIA. After initial construction, interim reclamation will be undertaken in order to stabilize slopes. As stated in [Section F.4.5.5](#) of the EIA, at mine closure the rail loop and supporting infrastructure will be fully reclaimed. The track will be dismantled and all associated infrastructure will be removed. The

area will be recontoured to meet the sloping requirements, compaction will be alleviated and conserved soil will be replaced. The area will be revegetated to integrate with adjacent lands.

The rail loop will be reclaimed to a coniferous forest and mixed forest landscape ([Figure F.3.6-8](#) of the EIA) using the revegetation procedures as for the rest of the mine as outlined in [Section F.3.6.3](#).

6. MISCELLANEOUS USE

In accordance with the *Public Lands Act*, Benga is requesting a Miscellaneous Lease (MLL) for the construction camp and portions of the conveyor/powerline/access road right-of-way that are located on a small area of crown land ([Figure 2-1](#)). As identified in [Section 3.2.1](#), this portion of Crown land is also covered by a Protective Notation (PNT 900430). Details of the proposed construction camp, access road and conveyor can be found in [Sections C.6.17, C.4.1 and C.2.7](#) of the EIA.

The MLL application package including the a completed application form, sketch plans, the completed Environmental Field Report (EFR) forms, LSAS report and consent letters is provided in [Appendix 3](#).

6.1 Site

The total area of the MLL is 3.52 ha, a majority of which is existing clearing ([Figure 6-1](#)). The boundary of the site is located within 100 m of a mapped watercourse, but this watercourse path was altered by drainage management works undertaken by Alberta Environment and Parks under PNT 900430. This watercourse is a tributary to Blairmore Creek, therefore is considered a Class B watercourse. Construction of the conveyor will also cross this tributary but is an overland structure that will be constructed out of the bed and bank of the tributary; therefore, will not disrupt site drainage.

Benga will utilize waste storage (see [Section 6.3](#)) and spill response procedures (see [Section C.7.6](#) of the EIA) that will reduce potential for contamination to enter the adjacent drainage. Construction and Reclamation processes as discussed in [Section 6.4](#) and [6.5](#) will be utilized in order to return the land to equivalent capability.

6.2 Access

The construction camp will be accessed through the mine access corridor, which runs from Highway 3 to the mine infrastructure area. A majority of this road is within private land owned by Benga. [Section C.4.1](#) of the EIA provides more detail on mine access.

6.3 Waste Management

Construction camp sewage will be collected locally and stored in two local 63,000-litre sewage collection tanks. This allows for approximately one and a half days of sewage storage for the construction camp based on an estimated daily potable water usage of 225 litres per day per person at the maximum camp size of 360 beds. These tanks will be remotely emptied by a third party tanker with the sewage treated off site.

6.4 Site Development Strategy

A majority of the MLL area is on a previously cleared area ([Figure 6-1](#)). If encountered, merchantable timber will be salvaged as described in the timber management plan included in [Section F.3.3](#) of the EIA.

Soil conservation will be undertaken to ensure there will be sufficient volumes of suitable reclamation material to support the self-sustaining vegetation communities required to achieve the planned end land uses. A description of soil salvage and handling procedures is provided in [Sections F.2.1.5, F.3.4](#) and [F.4.2](#) of the EIA.

6.5 Reclamation Strategy

The MLL will be reclaimed using the same practices and procedures outlined in [Section F.3.6](#) of the EIA. As stated in [Section F.4.5.3](#) of the EIA, the construction camp and conveyor facilities will be dismantled and removed from the site. The building site and access road areas will be ripped to relieve compaction, recontoured and conserved reclamation materials will be replaced. The camp area will be reclaimed to a coniferous forest landscape ([Figure F.3.6-8](#) of the EIA) using the revegetation procedures similar to the rest of the mine as outlined in [Section F.3.6.3](#).

7. REFERENCES:

- Alberta Conservation Information Management System (ACIMS). 2014. *List of Tracked and Watched Elements – May 2014 Version*. Alberta Tourism, Parks and Recreation, Parks Division. Edmonton, Alberta. Available online at: <http://albertaparks.ca/albertaparksca/management-land-use/alberta-conservation-information-management-system-%28acims%29/download-data.aspx>. Accessed periodically: June 2014 - January 2015.
- Alberta Energy 2015. Coal Guidelines and Policies. Obtained from <http://www.energy.alberta.ca/coal/662.asp> on August 10, 2015
- Alberta Environment. 2003. Weeds on industrial development sites, regulations and guidelines R&R/03-4. Available online at: <http://environment.gov.ab.ca/info/library/5929.pdf>. Accessed June 2015.
- Alberta Environment. 2006. Approved Water Management Plan for the South Saskatchewan River Basin (Alberta). ISBN 0-7785-4619-5
- Alberta Forestry, Lands & Wildlife. 1987. Livingstone- Porcupine Hills Sub-Integrated Resource Plan. ENR Technical Report Number: T/106. ISBN: 0-86499-299-8
- Alberta Forestry, Lands & Wildlife. 1991. The Crowsnest Corridor Local Integrated Resource Plan. April 4, 1991. Pub. No. I/287. ISBN: 0-86499-634-9
- Alberta Government. 2014. South Saskatchewan Regional Plan 2014-2024. ISBN: 978-1-4601-1862-7.
- Environment Canada. 2015. Recovery Strategy for Little Brown Myotis (*Myotis lucifugus*), Northern Myotis (*Myotis septentrionalis*), and Tri-colored Bat (*Perimyotis subflavus*) in Canada. *Species at Risk Act Recovery Strategy Series*. Environment Canada, Ottawa, Ontario, Canada.
- Environment and Sustainable Resource Development (ESRD). 2015. Recommended Land Use Guidelines: Key Wildlife and Biodiversity Zones. April 8, 2015. Obtained from <http://esrd.alberta.ca/fish-wildlife/wildlife-land-use-guidelines/default.aspx> on August 10, 2015
- Government of Alberta. 2010. *Wild Species Status Search*. General Status of Alberta Wild Species Database. Available online at: <http://esrd.alberta.ca/fish-wildlife/species-at-risk/wild-species-status-search.aspx>. Accessed June - August 2015.
- Government of Alberta. 2013a. Sensitive species inventory guidelines. Edmonton, Alberta, Canada. Available online at: <http://esrd.alberta.ca/fish-wildlife/wildlife-management/sensitive-species-inventory-guidelines.aspx>.

Government of Alberta. 2013b. Integrated Standards and Guidelines: Enhanced Approval Process.

Alberta Energy Regulator. Available online at: <http://aep.alberta.ca/forms-maps-services/enhanced-approval-process/eap-manuals-guides/documents/EAP-IntegratedStandardsGuide-Dec01-2013.pdf>.

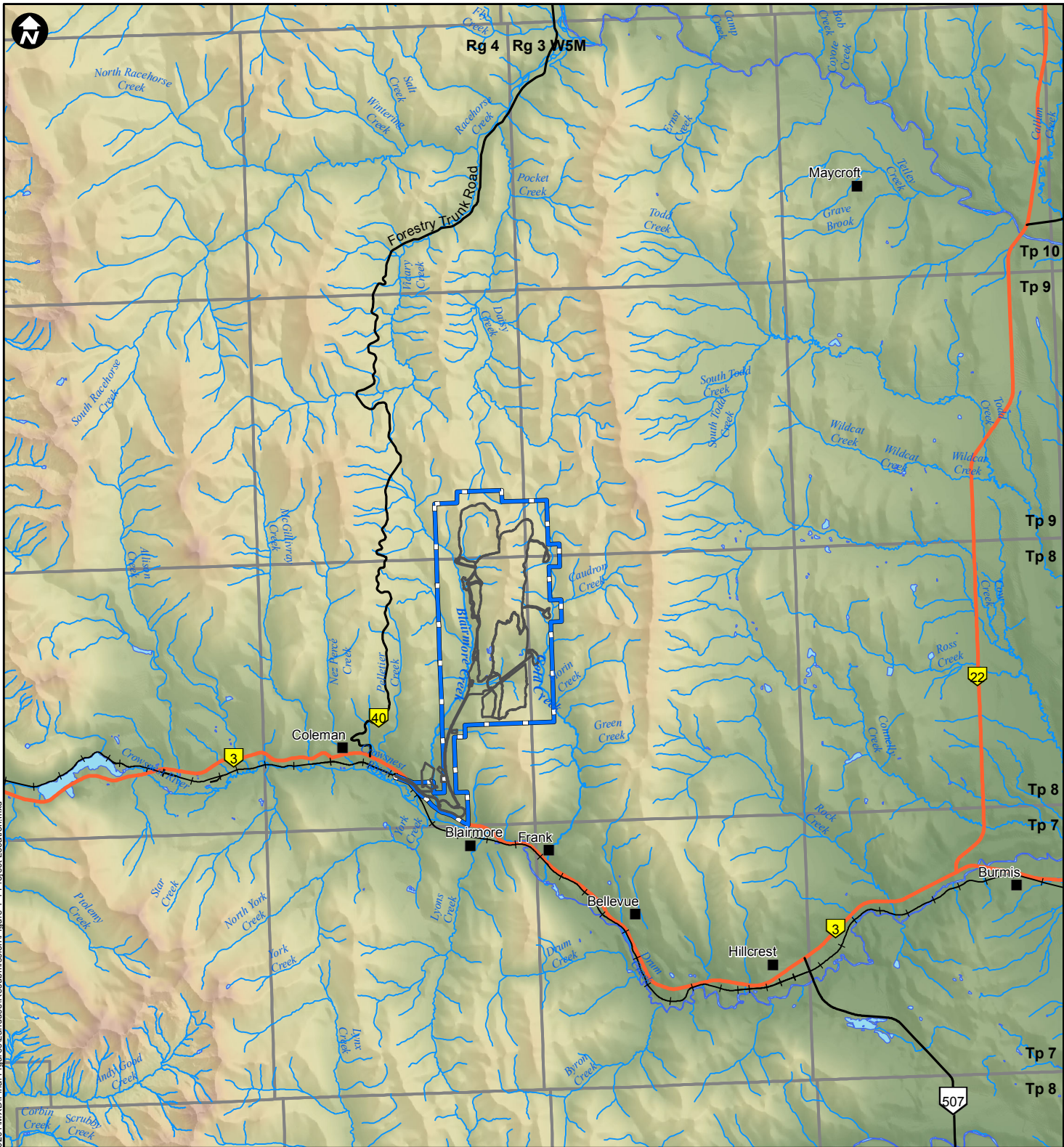
Government of Alberta. 2014. *Species Assessed by Alberta's Endangered Species Conservation Committee –*

Alberta Species at Risk. Available online at: <http://esrd.alberta.ca/fish-wildlife/species-at-risk/documents/SpeciesAssessed-Endangered-Jul18-2014.pdf>.

Natural Regions Committee. 2006. Natural Regions and Subregions of Alberta. Compiled by D.J.

Downing and W.W. Pettapiece. Government of Alberta. Pub. No. T/852. Available online at: http://www.albertaparks.ca/media/2942026/nrsrcomplete_may_06.pdf.

FIGURES



Document Path: K:\Active\Projects\2014\AP_14-002501\4-002011 to 14-002501\XD\Final\Figures\and\use\Resubmission\Figure 1-1, Project Location.mxd

- LEGEND**
- Primary Highway
 - Secondary Highway
 - +— Existing Railway
 - Surface Water Drainage
 - Mine Permit Boundary
 - Project Footprint



PROJECT



GRASSY MOUNTAIN COAL PROJECT

TITLE
PROJECT LOCATION

NOTES
 AltaLIS, 2016; GeoBase, 2016; NRCAN, 2016; Riversdale, 2016
 Datum/Projection: UTM NAD 83 Zone 11

PROJECT: 14-00201-01
 DRAWN BY: JDC/JL
 CHECKED BY: KY
 DATE: JUNE 27, 2016

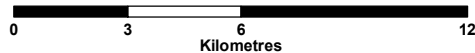
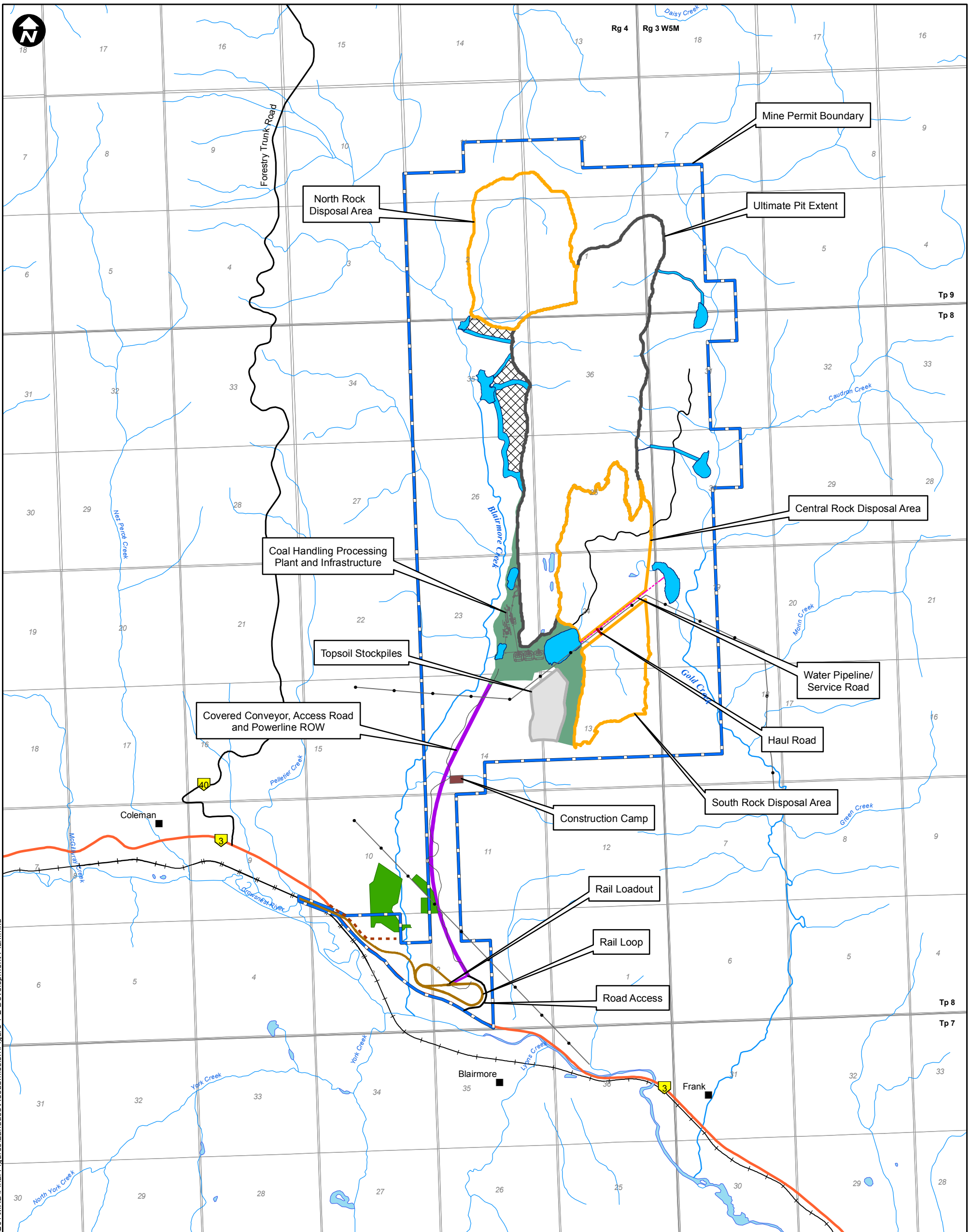


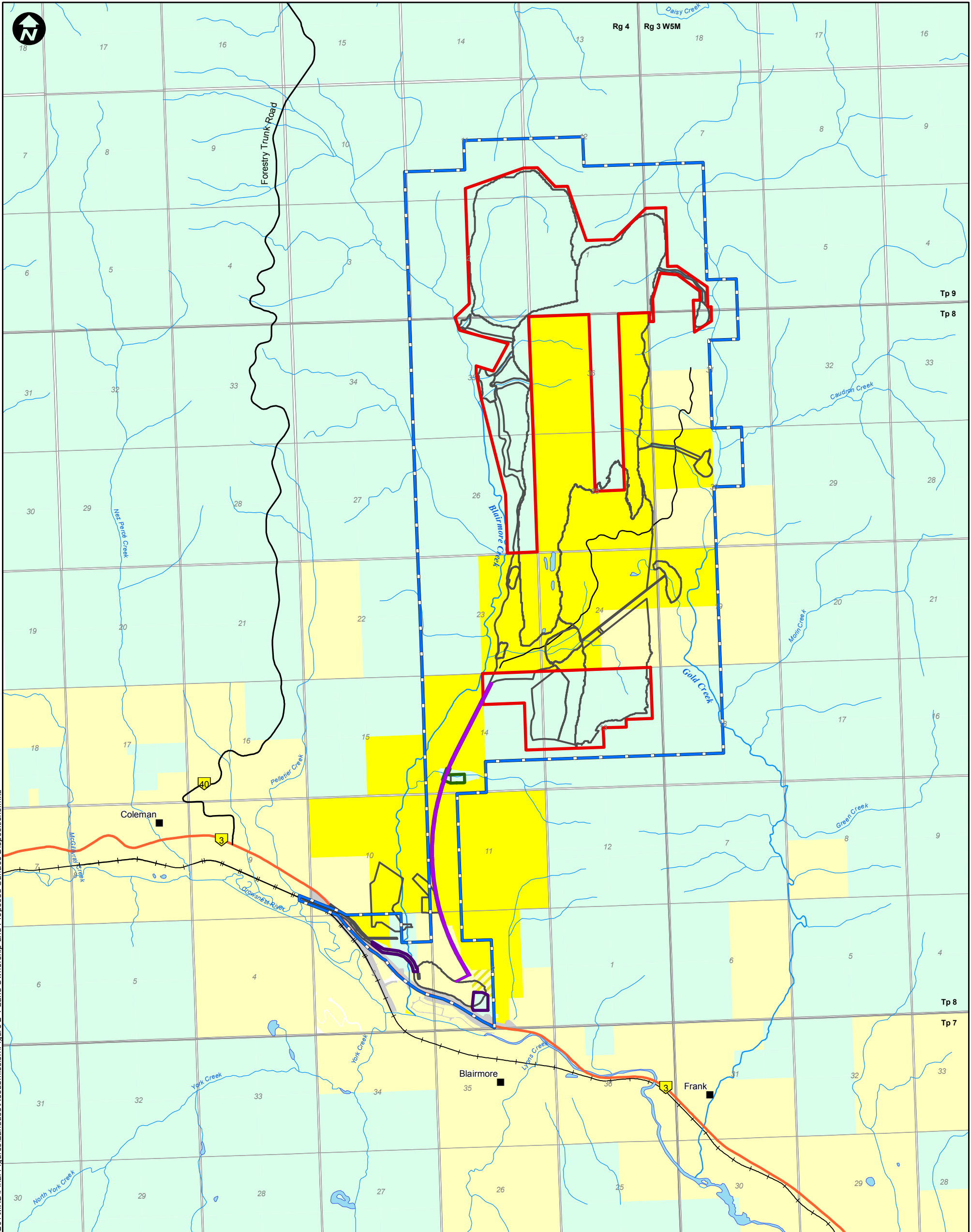
FIGURE
1-1



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LEGEND	
	Primary Highway
	Secondary Highway
	Existing Railway
	Existing Access Road
	Existing Powerline
	CHPP Facilities
	Water Pipeline/Service Road
	Railway Loop
	Helipad Access
	Mine Permit Boundary
	Ultimate Pit Extent
	Ultimate Rock Disposal Area Extent
	Topsoil Storage
	Construction Camp
	Ponds and Ditches
	Coal Handling Processing Plant and Infrastructure
	Covered Conveyor, Access Road
	Golf Course Area
	Undisturbed Area

PROJECT 		GRASSY MOUNTAIN COAL PROJECT	
TITLE DEVELOPMENT PLAN			
NOTES AltaLIS, 2016; MEMS, 2016; Riversdale, 2016 Datum/Projection: UTM NAD 83 Zone 11		PROJECT: 14-00201-01 DRAWN BY: JDC/JL CHECKED BY: KY DATE: JUNE 27, 2016	
		FIGURE 1-2	



Document Path: K:\Active Projects\2014\AP_14-00201 to 14-00250\14-00201\MXD\Final Figures\Landuse\Resubmission\Figure 2-1 Land Ownership and Proposed Surface Dispositions.mxd

LEGEND

- Primary Highway
 - Secondary Highway
 - Existing Railway
 - Mine Permit Boundary
 - Covered Conveyor, Access Road and Powerline ROW
 - Project Footprint
 - MSL Boundary
 - MLL Boundary
 - LOC Boundary
-
- Land Ownership**
 - Crown
 - Freehold - Benga
 - Freehold - Benga 50%, Other 50%
 - Freehold - Other
 - Registered Roadway

PROJECT



GRASSY MOUNTAIN COAL PROJECT

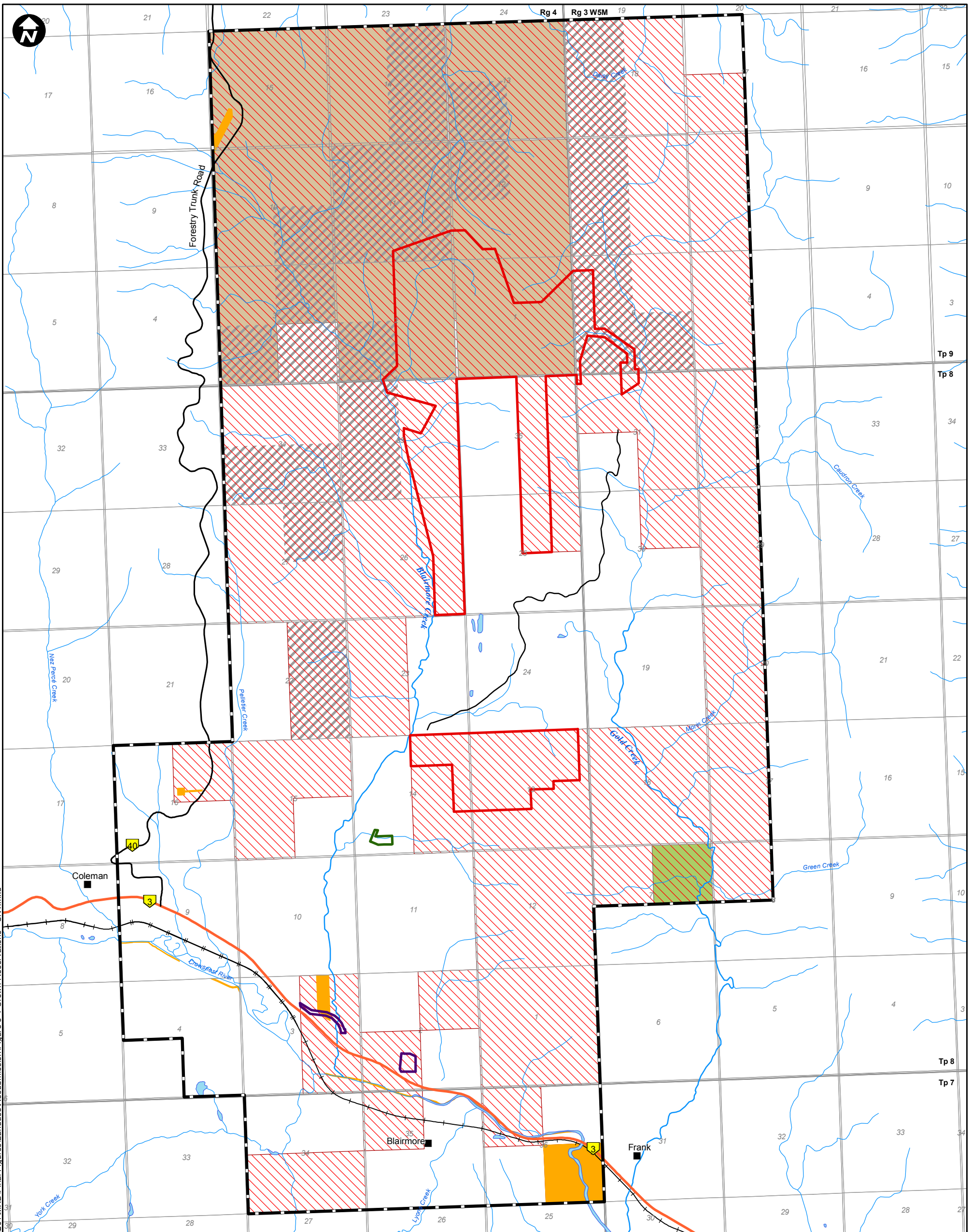
TITLE
LAND OWNERSHIP AND LOCATION OF PROPOSED SURFACE DISPOSITIONS

NOTES
AltaLIS, 2016; MEMS, 2016; Riversdale, 2016
Datum/Projection: UTM NAD 83 Zone 11

PROJECT: 14-00201-01
DRAWN BY: JL/SL
CHECKED BY: KY
DATE: AUGUST 10, 2016



FIGURE
2-1



LEGEND

- Primary Highway
- Secondary Highway
- Existing Railway
- Study Area
- MSL Boundary
- MLL Boundary
- LOC Boundary

Disposition Type

- Disposition Reservation (DRS)
- Firesmart Zone (CNT090027)
- Potential Timber Disposal (CNT860041)
- Green Creek Wintering Site (CNT880242)
- Snowmobile Trails (CNT980012)

PROJECT

GRASSY MOUNTAIN COAL PROJECT

TITLE
CROWN RESERVATIONS - CONSULTATIVE NOTATIONS AND DISPOSITION RESERVATIONS

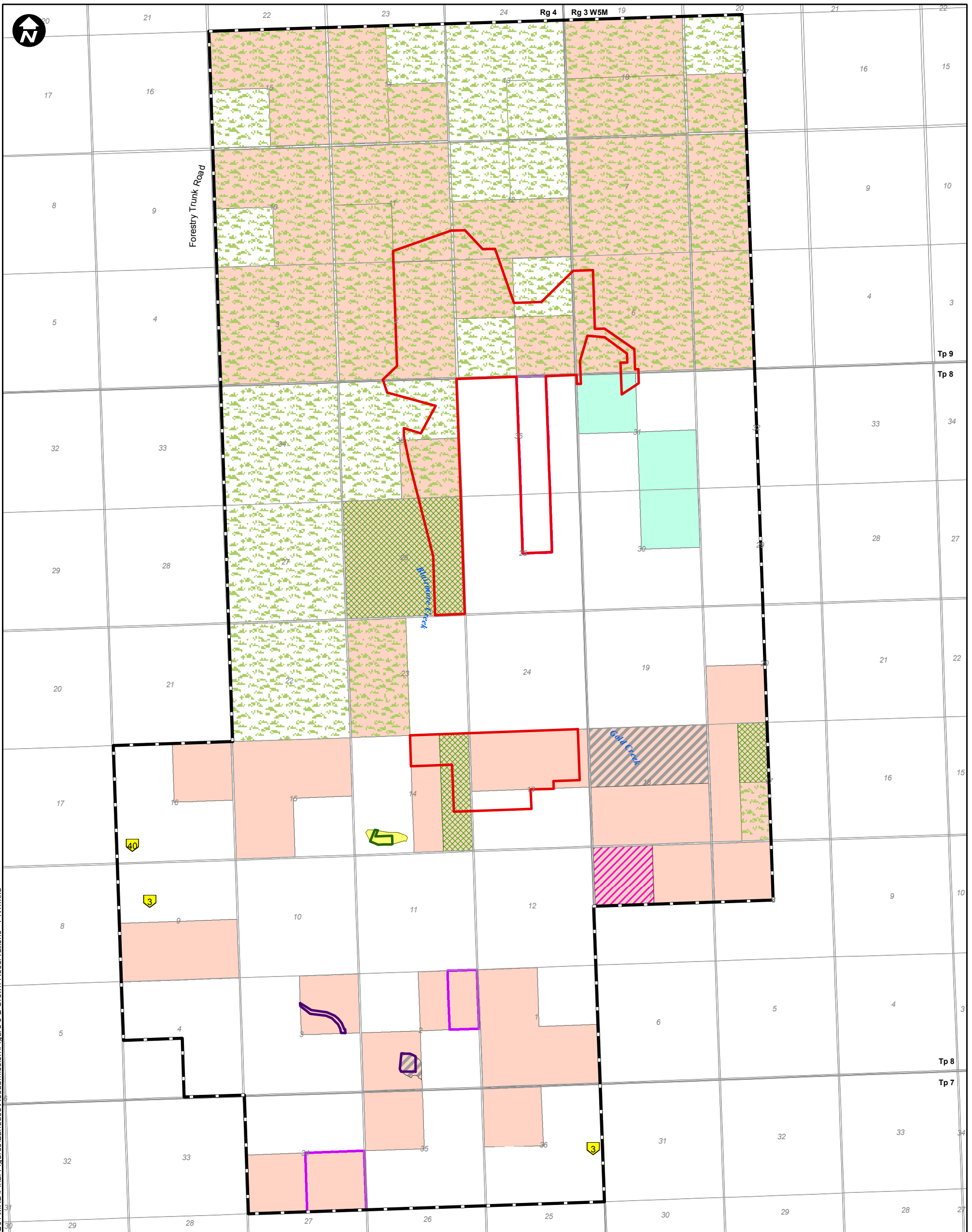
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 Datum/Projection: UTM NAD 83 Zone 11

PROJECT: 14-00201-01
DRAWN BY: JL/SL
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DATE: AUGUST 10, 2016

FIGURE
3-1



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LEGEND

- Primary Highway
- Secondary Highway
- Existing Railway
- Study Area
- MSL Boundary
- MLL Boundary
- LOC Boundary

Protective Notation (PNT)

- Grazing Area (PNT890351, PNT890378, PNT930299, PNT940130)
- Grazing, Watershed Protection, Wildlife Habitat (PNT960092)
- Unimproved Grazing (PNT880617, PNT880619, PNT880625)
- Mountainous Terrain Rock Outcrop (PNT810769)
- No Agricultural Disposition (PNT700566, PNT776398, PNT880618)
- Potential Fescue Grassland (PNT090084, PNT090087)
- Water Disposal/Reclamation (PNT 900430)
- Registered Historic Resource (PNT900426, DHR010001)

PROJECT

RIVERSDALE
RESOURCES

**GRASSY MOUNTAIN
COAL PROJECT**

TITLE

CROWN RESERVATIONS - PROTECTIVE NOTATIONS

NOTES

AltaLIS, 2016; MEMS, 2016; Riversdale, 2016
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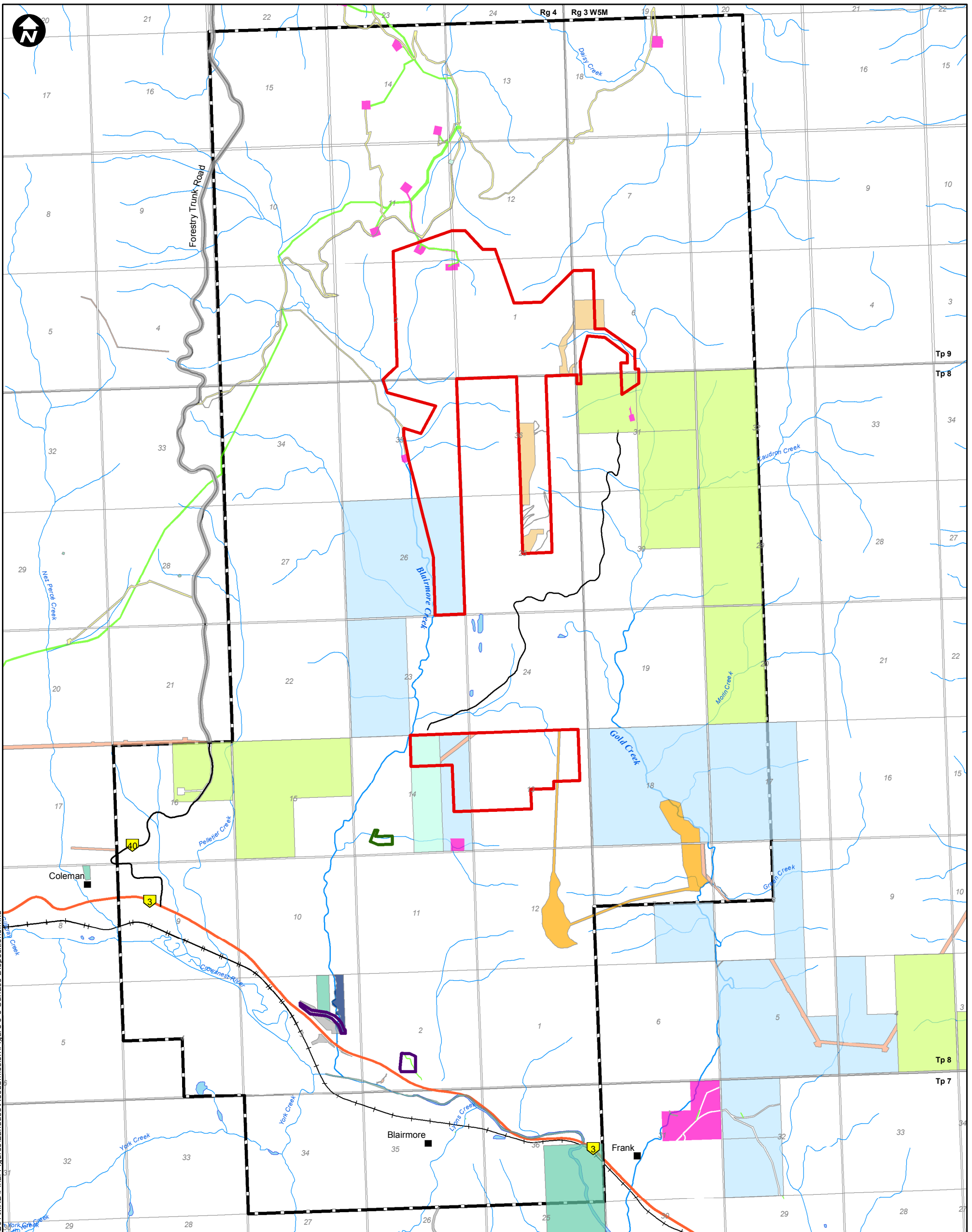
PROJECT: 14-00201-01
DRAWN BY: JL/SL
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DATE: AUGUST 10, 2016

FIGURE

3-2



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LEGEND

- Primary Highway
 - Secondary Highway
 - Existing Railway
 - Study Area
 - MSL Boundary
 - MLL Boundary
 - LOC Boundary
-
- Existing Surface Dispositions**
- Mineral Surface Lease (MSL)
 - Pipeline Agreement (PLA)
 - License of Occupation (LOC)
 - Right-of-Entry (ROE)
 - Easement (EZE)
 - Registered Roadway (RRD)
 - Grazing Permit (GRP)
 - Disposition Reservation (DRS)
 - Pipeline Installation Lease (PIL)
 - Grazing Lease (GRL)
 - Recreational Lease (REC)
 - Miscellaneous Lease (MLL)
 - AEP License of Occupation (DLO)

PROJECT



GRASSY MOUNTAIN COAL PROJECT

TITLE

EXISTING SURFACE DISPOSITIONS

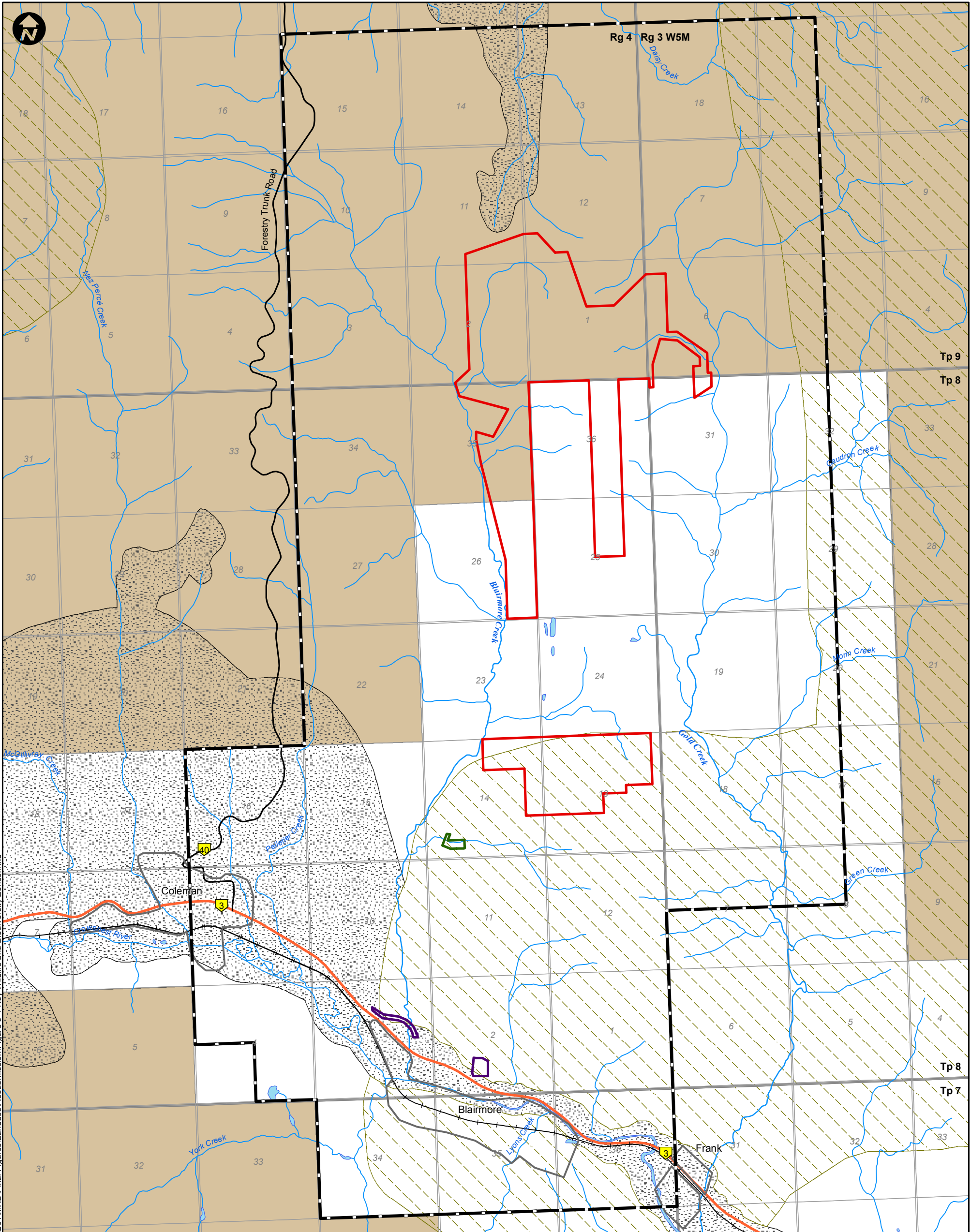
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 Datum/Projection: UTM NAD 83 Zone 11

PROJECT: 14-00201-01
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 DATE: AUGUST 10, 2016

FIGURE
3-3





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LEGEND

- Existing Railway
- Surface Water Drainage
- Study Area
- MSL Boundary
- MLL Boundary
- LOC Boundary
- Mountain Goat and Sheep Range
- Key Wildlife and Biodiversity Zone
- Grizzly Bear Zone

PROJECT



RIVERSDALE GRASSY MOUNTAIN
RESOURCES COAL PROJECT

TITLE

KEY WILDLIFE AND BIODIVERSITY ZONES

NOTES

AltaLIS, 2016; GeoBase, 2011; NRCAN, 2016; Riversdale, 2016
Datum/Projection: UTM NAD 83 Zone 11

PROJECT: 14-00201-01

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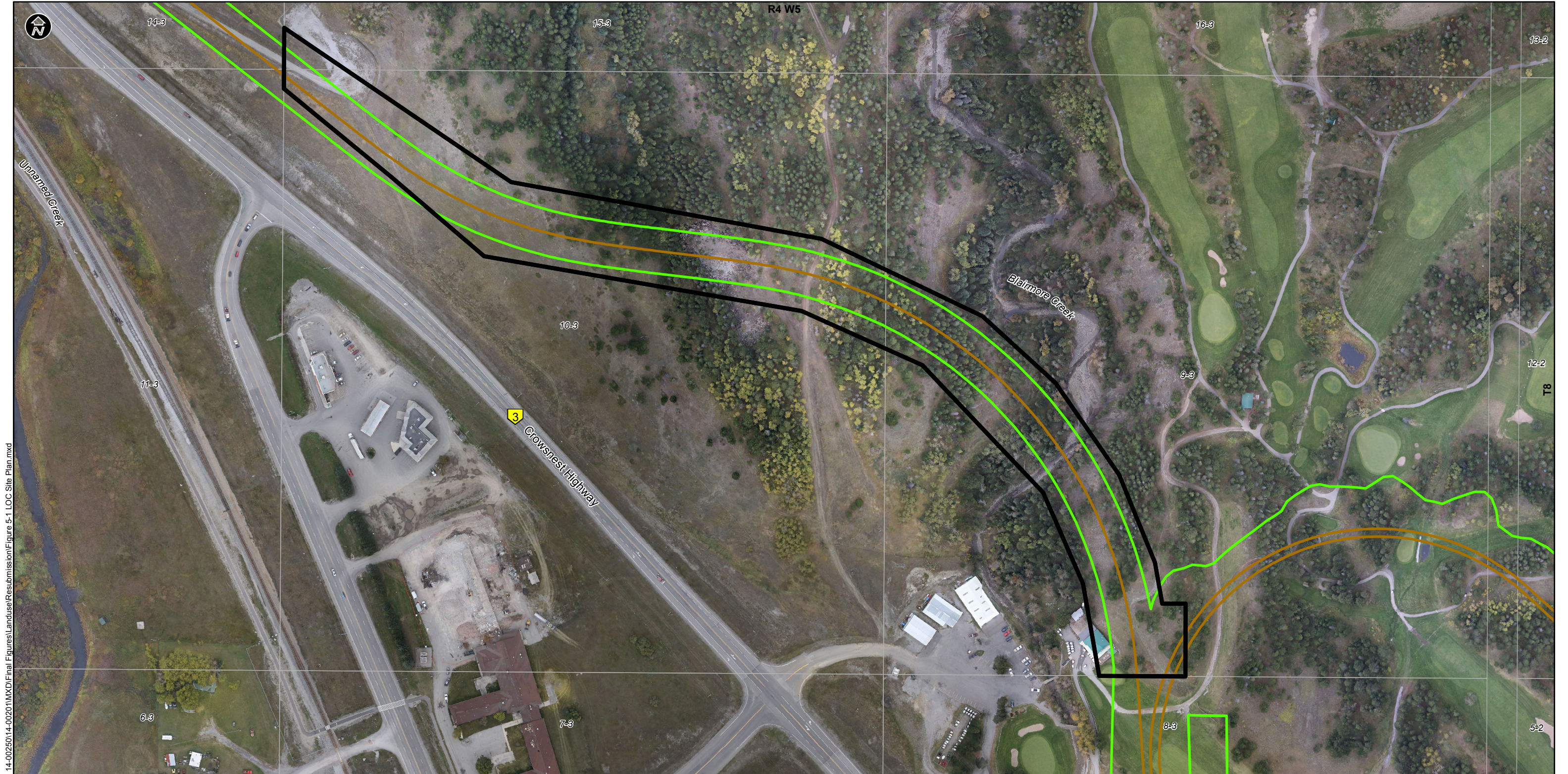
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FIGURE

3-4

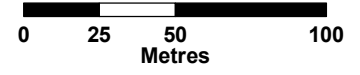




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- LEGEND**
- Railway Alignment
 - License of Occupation (LOC) Boundary
 - Extent of Clearing and Disturbance

<p>PROJECT</p> <p>RIVERSDALE RESOURCES</p> <p>GRASSY MOUNTAIN COAL PROJECT</p>	<p>PROJECT: 14-00201</p> <p>DRAWN BY: JL</p> <p>CHECKED BY: KY</p> <p>DATE: JULY 14, 2016</p>
<p>TITLE</p> <p>RAIL ALIGNMENT LICENSE OF OCCUPATION (LOC) SITE PLAN</p> <p>09/10/15-03-008-04 W5</p>	
<p>NOTES</p> <p>AltaLIS, 2016; MEMS, 2016 RapidEye, 2015 (Image Date: Jul 26/13); Riversdale, 2016. Datum/Projection: UTM 3TM Nad 83</p>	<p>FIGURE</p> <p style="font-size: 24px; font-weight: bold; text-align: center;">5-1</p>



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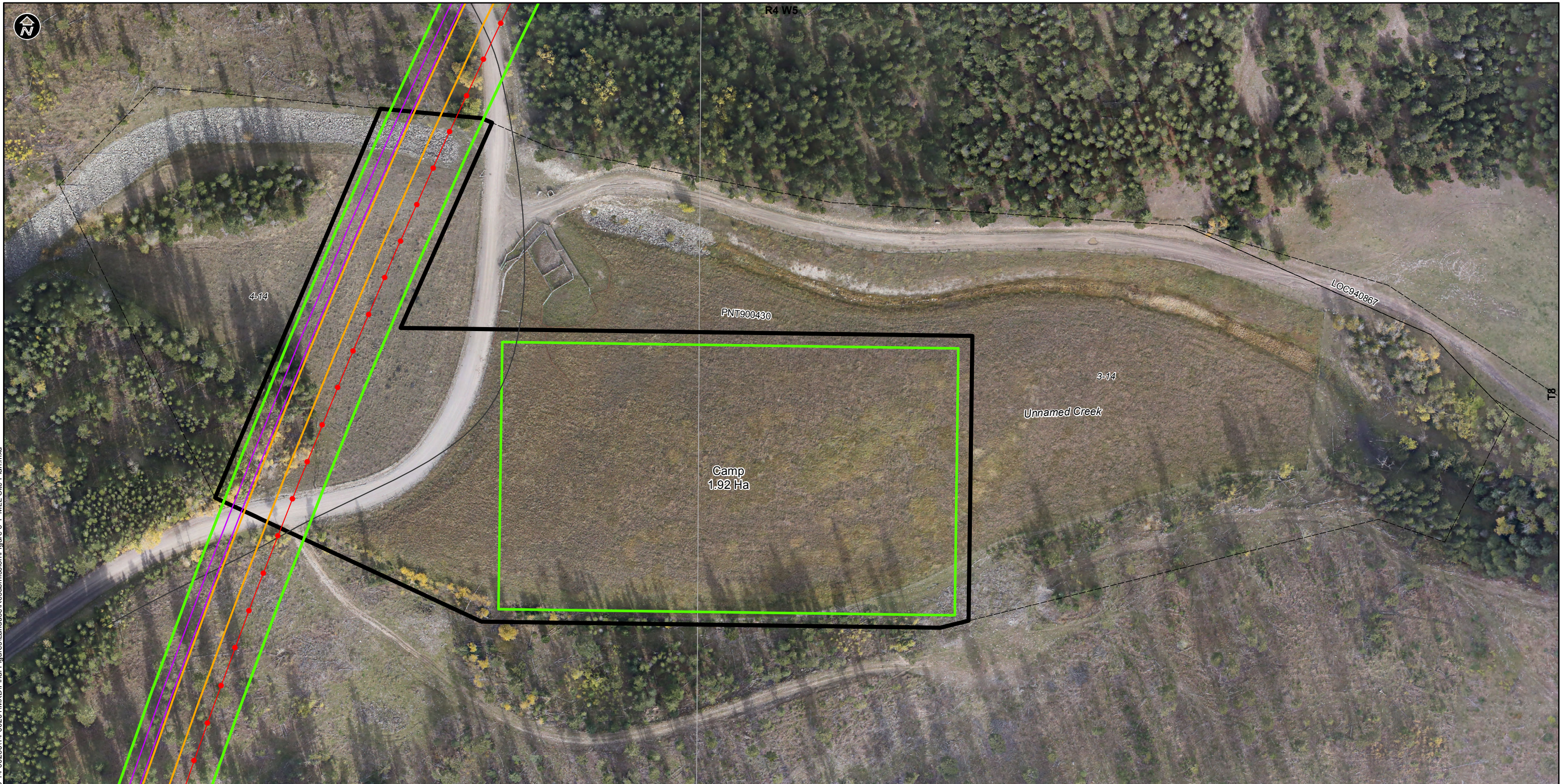
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- LEGEND**
- Existing Powerline
 - Railway Alignment
 - Proposed Access Road
 - - - Extent of Clearing (20m Right of Way)
 - ▭ License of Occupation (LOC) Boundary
 - ▭ Extent of Clearing and Disturbance

<p>PROJECT</p> <p>RIVERSDALE RESOURCES</p>	<p>GRASSY MOUNTAIN COAL PROJECT</p>	
<p>TITLE</p> <p>LICENSE OF OCCUPATION (LOC) SITE PLAN</p> <p>6-2/3-2-03-008-04 W5</p>		<p>PROJECT: 14-00201</p> <p>DRAWN BY: JL</p> <p>CHECKED BY: KY</p> <p>DATE: JULY 14, 2016</p>
<p>NOTES</p> <p>AltaLIS, 2016; MEMS, 2016 RapidEye, 2015 (Image Date: Jul 26/13); Riversdale, 2016. Datum/Projection: UTM 3TM Nad 83</p>		<p>FIGURE</p> <p>5-2</p>

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- LEGEND**
- Access Road
 - Conveyor
 - Extent of Clearing and Disturbance
 - Powerline
 - Existing Road Access
 - Miscellaneous Lease (MLL) Boundary
 - Disposition

<p>PROJECT</p> <p>RIVERSDALE RESOURCES</p> <p>GRASSY MOUNTAIN COAL PROJECT</p>	
<p>TITLE</p> <p>MISCELLANEOUS LEASE (MLL) SITE PLAN</p> <p>3/4-14-03-008-04 W5</p>	
<p>NOTES</p> <p>AltaLIS, 2016; MEMS, 2016 RapidEye, 2015 (Image Date: Jul 26/13); Riversdale, 2016. Datum/Projection: UTM 3TM Nad 83</p>	<p>PROJECT: 14-00201</p> <p>DRAWN BY: JL</p> <p>CHECKED BY: KY</p> <p>DATE: JULY 14, 2016</p>
<p>0 25 50 100</p> <p style="text-align: center;">Metres</p>	<p>FIGURE</p> <p style="font-size: 24pt; font-weight: bold; text-align: center;">6-1</p>

Disclaimer: This figure was derived from multiple data sources and while we make every effort to assure its' accuracy, Millennium EMS Solutions Ltd. disclaims any representation or warranty and assumes no liability either for any errors, omission or inaccuracies that may occur.

APPENDIX 1 – MSL APPLICATION

Application for Surface Dispositions

<i>Please Print Or Type</i>	EFR attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					File Number:								
	If No, AOA # _____ or					Confirmation Number:								
	Other: _____					FNC Number: Not Issued								
<input checked="" type="checkbox"/> Mineral Surface Lease [MSL]		<input type="checkbox"/> Licence of Occupation [LOC]			<input type="checkbox"/> Pipeline Installation Lease [PIL]			<input type="checkbox"/> R.E.A. Easement [REA]						
<input type="checkbox"/> Pipeline Agreement [PLA]		Project Name: Grassy Coal					<input type="checkbox"/> Easement [EZE]							
Application:							Transmission Line							
<input type="checkbox"/> Class I [INDEX > 2690]							Length _____ km							
<input type="checkbox"/> Class II [INDEX < 2690]							Kilovolts _____							
Does this application include watercourse crossings regulated under the <i>Water Act</i> (Ministerial) Regulations' Code of Practice for Pipelines and Telecommunication Lines Watercourse Crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, the applicable <i>Water Act</i> Notice must be submitted with this application.														
Applicant: Benga Mining Limited					Client ID: 1008823002			Applicant File Number Grassy Mountain Coal Mine						
Address: PO Box 660, 12331 - 20 Avenue								Tel: 403-563-6160						
City/Province: Blairmore Alberta					Postal code: T0K 0E0			Fax:						
Contact person/Agent as above <input checked="" type="checkbox"/> or:								File:						
Address:								Tel:						
City/province:					Postal code:			Fax:						
Attached: <input checked="" type="checkbox"/> Sketch <input type="checkbox"/> Survey Plan <input type="checkbox"/> As Built					Occupant's consent: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Not Required									
Purpose of application: <input type="checkbox"/> Wellsite <input type="checkbox"/> Access <input type="checkbox"/> Pipeline <input type="checkbox"/> Powerline <input checked="" type="checkbox"/> Other Coal Mine														
Land being applied for [<i>Attach Schedule if insufficient space</i>]														
Name of Subdivision					Subdivision Plan			Block		Lot	Parcel			
Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer
See	Table	2-2												
Are you a Canadian citizen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have you attained the age of 18 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Are you an employee of the Government of Alberta or member of the Legislative Assembly? <input type="checkbox"/> Yes [<i>Dept/Agency/Board</i>] <input checked="" type="checkbox"/> No									
<Original signed by>					For Internal Use Only									
Signatu _____					Authorization is hereby granted to enter upon and immediately occupy public land as described on this application and in accordance with the plan/sketch submitted to the issuing regulatory body subject to conditions specified in schedule "A":									
Steve Mallyon Print Name														
August 12, 2016 Date		\$ _____ Amount Enclosed								Date		Authorizer, <i>Public Lands Act</i>		
Approval from	Lands	Forest	F & W	Trans	Parks									
Referral Date														
Received Date														
Comments:										Dept. Plan:				
										Field Services				
										Forest				
										F & W				
										Other				

Proposed construction date: 2017 to 2041
dd/mm/yyyy

2. Specify associated developments/dispositions that may be required as a result of this disposition.

- Power line
- Pipeline
- Compressor
- Metering Station
- Access
- Other LOC for rail line and adjacent access and MLL for the construction camp and conveyor/powerline/access road right of way (see Public Lands Act Application)

Land Standing Review

3. A complete Land Standing Review check must be made on the proposed area.

Date Land Standing search was completed: 10/08/2016
dd/mm/yyyy

Reservation/Activity Number	Action required/identify conflicts/contact name and or comments
See Public Lands Act Application Table 3-1.	

- a. Within a Provincial Grazing Reserve? Yes No
If 'Yes', complete the Provincial Grazing Reserve template and attach to the Environmental Field Report. (Refer to Appendix I in the instruction document.)
 - b. Within the Chungo Access Management Area? Yes No
If 'Yes', complete the Chungo Area template (located at the end of IL 2005-01 – Annex to Chungo Creek Industrial Access Management Area Information Letter and attach it to the Environmental Field Report.
 - c. Within a FireSmart Community Zone? Yes No
If 'Yes', contact Forest Protection Division for additional hazard reduction requirements.
 - d. Follow the "Bear Smart" program to reduce bear-human conflicts and increase public stewardship of black and grizzly bears in Alberta by providing strategies, information and education materials to its staff and contractors, see srd.alberta.ca and search for "Alberta BearSmart"
4. Are Permanent/Research Sample Plots/Rangeland Benchmarks located within 100 m of the boundary of the lands under application? Yes No

If 'Yes', indicate the legal land description and GPS coordinates for each plot/benchmark in relation to the disposition boundary (degree, decimal, minutes).

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

PSP's held by the Regulatory body appear as DRS or PNT reservations on the LSAS report. The forest industry also has sample plots, and if these are registered, they will appear as ISP's on the LSAS report. If the forest industry sample plots are not registered, they will not appear on the LSAS report. The proponent is responsible for determining if there are any PSP's or ISP's on the land under application. PSP's and ISP's must not be disturbed.

Stakeholders, Other Land Users

5. Is there potential impact on or conflict with stakeholders and other land users? Yes No

If "Yes" to either, please list and explain mitigation:

See Section 3.2.2 and 3.2.3 of the PLA Application for details.

6. What actions have been taken to integrate this disposition with other existing/planned activities and resources to minimize the impacts on the land base? (Check appropriate boxes.)

- Not applicable
- Use common corridor
- Parallel existing clearing/right of way
- Use existing clearing/right of way
- Other _____

Explain: Existing clearings have been utilized where feasible given the mining area needs to be located over the coal resource. See Section 3.2.4 of the PLA Application.

7. Identify any aesthetic concerns related to the proposed activity (i.e., negative effects on the aesthetic/sensory aspects of the surrounding land including view, smell, noise, etc.).

- Not applicable
 From public access
 From residence
 From recreation facility
 Other Land Users

Explain: Visual impacts on what the mountain will look like post mining has been raised by the Piikani Nation see Section 3.2.5 of the PLA Application.

8. Are there any conflicts with Access Management Plans, Integrated Resource Plans or policy documents for the area? Yes No

If 'Yes', explain mitigation strategy: Land and resource use planning is discussed further in Section 3.2.6 of the PLA application.

9. Was First Nations (Aboriginal) consultation required by the Regulatory body? Yes No

If "Yes", with whom: See Section 3.2.7 of the PLA Application for a list of First Nations groups who were consulted.

C. Wildlife/Environmental Concerns

1. Within a Key/Critical Wildlife Zone? Yes No

If 'Yes', provide information on mitigation strategies that will be implemented: See Section 3.3.1 of the PLA Application.

2. Wildlife Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From See Section 3.3.2 of the PLA Application To _____ (See Provincial Timing Guidelines or FW referral maps.)

3. Fisheries Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From _____ To See Section 3.3.2 of the PLA Application (See Provincial Watercourse Codes of Practice for restricted periods.)

4. Within a Caribou Area? Yes No. If 'Yes', specify the Caribou Protection Plan number and name.

Species at Risk (Plant/Animals)

5. Is it likely that a species at risk (not including Woodland Caribou in number 4 above) will be found in the area of the proposed development? Yes No

If 'Yes', specify the status and protective strategy for each species: For further details on species at risk within the proposed activity, see Section 3.3.3 of the PLA Application.

<p>Species 1 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 2 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
--	--

<p>Species 3 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 4 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
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Alberta Fish and Wildlife Division recommends predevelopment inventory be conducted on all native grasslands habitats within the Grassland Natural Region due to high concentration of Species at Risk and limited site specific information on occurrences.

6. Has a pre-development Species at Risk inventory been completed to alert the applicant of any wildlife concerns related to this project? Yes (copy of inventory attached) No

If 'No', explain: See Section 3.3.3 of the PLA Application

Has the activity been assessed to ensure it does not negatively affect any species at risk? Yes No

If 'No', explain: The project has been assessed to determine its effect on species at risk and mitigation measures have been suggested to reduce adverse effects. Additional details are presented in Section 3.3.3 of the PLA Application.

8. If Access Restrictions apply, include legal land description and explain mitigation measures.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Explain mitigation strategy: _____

9. If within or adjacent (within 100 m) to a *Protected Area*, indicate the type of protected area and explain what measures will be taken to avoid conflict with the protected area.

Natural Area Ecological Reserve Park Other Crown reservations as discussed in Section 3.2.1 of the PLA Application.

Name of protected area: _____

Explain mitigation strategy: _____

10. Are there any environmentally *sensitive areas* in the vicinity (within 100 m) of the proposed activity that will require special measures to protect? Yes No

If 'Yes', list and explain: See Section 3.3.1 of the PLA Application for additional details.

11. Is the proposed activity within a permafrost area? Yes No

If 'Yes', specify the Permafrost Protection Plan number and name: _____

D. Historical Resources

Date search completed A Historical Resource Impact Assessment was undertaken as part of the EIA. See Section 3.4 of the PLA Application.

dd/mm/yyyy

What is the Historical Resource Value (HRV) of the affected lands?

Not Listed 1 2 3 4 5

If HRV is 1-5, an 'Application for Historical Resources Act Clearance' must be submitted to the Cultural Facilities and Historical Resource Division (CFHRD) of Alberta Community Development.

Date submitted 05/08/2016

dd/mm/yyyy

Note: Activities on land that has an HRV or 4 or 5 may require a Historical Resources Impact Assessment (HRIA).

E. Vegetation and Timber Cover

Vegetation (check all that apply)

Native grassland

Treed wetland

Deciduous-dominant forest:

- | | | |
|--|--|--|
| <input type="checkbox"/> Tame pasture | <input type="checkbox"/> Shrubby wetland | <input checked="" type="checkbox"/> ("D" less than 30% coniferous trees) |
| <input type="checkbox"/> Cropland | <input type="checkbox"/> Grass or grass-like wetland | Coniferous-dominant forest: |
| <input type="checkbox"/> Sparsely or non-vegetated | <input type="checkbox"/> Native aspen parkland | <input checked="" type="checkbox"/> ("C" more than 70% coniferous trees) |
| <input checked="" type="checkbox"/> Cutblock – planted | <input checked="" type="checkbox"/> Other (specify) <u>Grass Meadow.</u> | Mixedwood forest: |
| <input type="checkbox"/> Natural regeneration >2 m | | <input checked="" type="checkbox"/> ("CD" 70% to 50% coniferous trees) |
| | | <input checked="" type="checkbox"/> ("DC" 50% to 30% coniferous trees) |

Timber Salvage

1. Merchantable timber present? Yes No

Provide a volume inventory as follows:

Coniferous approx. volume 1,316m³ or _____ number of loads

Spruce 14% Pine 80% Other 6 %

Deciduous approximate volume 114,550m³ or _____ number of loads

Aspen 98 % Other 2 %

2. Specify the timber disposition or FMA(s) shown on LSAS.

No disposition (Contact the Regulatory body)

Disposition number of FMA: No FMA, see Table 3-2 of PLA Application for lease and permit holders Section ,
holder name _____

3. Utilization standards:

Coniferous 15 cm stump diameter to a 11 cm top diameter.

Deciduous 15 cm stump diameter to a 11 cm top diameter.

4. Timber salvage waiver requested? Yes No

If 'Yes', provide justification: _____

5. Provide the name of the salvage purchaser See Section 3.5 of the PLA Application, or check one of the following:

Not known at this time

By TM88 (or equivalent)

By Timber permit

6. When will the salvage be removed/hailed from the site to a wood processing plant?

Proposed date start: 01/07/2017
dd/mm/yyyy

Proposed date complete: Ongoing through life of the mine.
dd/mm/yyyy

Notes: The operator is responsible for moving the salvage to a site that is accessible to ensure all the wood can be removed. This may require forwarding the wood to a site with all-weather access.

A copy of the TM88 or equivalent must be submitted to the the Regulatory body to ensure proper tracking of ownership, transport and manufacturing can occur.

F. Soil and Vegetation Management

Soil salvage, storage, replacement, and handling procedures shall be in keeping with those outlined in *Section 6 “Site Disturbance, Clearing and Soil Management,”* of the *“Public Lands Operational Handbook”*.

Note: Projects on specific areas of public land may require a soil survey. The proponent is to identify such requirements during the planning process.

Are there soil sensitivities (i.e., shallow depth to water table; shallow depth to bedrock; soils are gravely or stony, etc.)? Yes No

Explain: See Section 3.6.1 of the PLA Application for details on soil sensitivities.

Surface expression (i.e., topography). See Section 3.6.1 of the PLA Application for details on project area topography.

Site drainage (i.e., drainage is very poor, poor, imperfect, moderately well, well, rapid, or very rapid)

See Section 3.6.1 of the PLA Application for details on site drainage.

Are there problem vegetation/weeds/invasive species on or near site at time of assessment?

Yes No **Explain** Problem vegetation/weeds/invasive species are discussed further in Section 3.6.2 of the PLA Application.

Identification of species, degree of infestation and approximate amount of area infested per species.

	Species 1	Species 2	Species 3
Trace (rare)		Refer to Section 3.6.2 of the PLA Application.	
Low (occasional)			
Moderate (scattered plants)			
High (fairly dense)			

Is there a risk of weed spread to the site if development proceeds?

High Moderate Low

If any risk, provide details in reclamation and construction sections of supplements.

If high or moderate, show location on the application plan.

G. Incidental Activities

The applicant is to identify and outline on the application plan any incidental activities required for temporary use.

Note: No additional approval is required for incidental activities that are applied for with the disposition and included in the plan.

If the incidental activity is *not approved* under the disposition, a separate approval is required. Incidental activities approved in this manner are for temporary use only and are *not* part of the surface disposition.

1. According to field assessment, will additional incidental clearings be required? Yes No

If 'Yes', indicate the purpose:

- Campsite Borrow Pit Salvage Deck
 Temporary Workspace Backslope Temporary Access
 Other Incidental activities are discussed further in Section 3.7 of the PLA Application

2. Are any additional clearings planned in reforested areas? Yes No

If 'Yes', explain _____

The Core Operating Conditions are standard practices that must be applied to all activities.

H. Core Operating Conditions

Prior to Entry - Confirmation Number

099 The holder shall contact and advise Regulatory body of its intentions:

- prior to entry upon the lands for a stated purpose,
- prior to any additional construction during the term of this authority,
- at the completion of operations or construction, and
- upon abandonment of this activity.

Upon contact prior to initial entry on the land, the Regulatory body shall issue a confirmation number that shall be maintained on file by the holder and be provided to the Regulatory body on request.

<Location & Telephone No.> _____

Adverse Ground Conditions

105 Any activity on the land during adverse ground conditions must be suspended if the activity is likely cause unacceptable damage to vegetation or soil, as may be determined by the holder or the Regulatory body.

Sample Plots

108 No entry is allowed within the boundaries of any research or sample plot.

Reclamation - Interim

127 The holder shall reclaim all disturbed land surfaces within two growing seasons. Interim reclamation, including site and debris clean-up, slope stabilization, recontouring with subsoil, and spreading of topsoil shall be done progressively and concurrently with operations.

Reclamation - Final

128 Final surface reclamation must meet the requirements for the specific activity in place at the time of abandonment.

Noxious Weeds

131 The holder shall cut, keep down and destroy all noxious weeds and restricted weeds as per the *Public Lands Act*.

Waste Material Disposal

135 The holder shall remove all garbage and waste material from this site to the satisfaction of the Regulatory body, in its sole discretion.

Watercourse/Water Body - No Material to be Deposited

148 The holder shall not deposit or push debris, soil or other deleterious materials into or through any watercourse or water body or on the ice of any watercourse/water body.

Erosion Prevention

158 The holder shall take all precautions and safeguards necessary to prevent soil and surface erosion to the satisfaction of the Regulatory body in its sole discretion.

Natural Drainage - No Interruption

161 The holder shall not create any interruptions to natural drainage, including ephemeral draws that may result in blockage of water flow.

**Sites and Installations
3.0 Completion of Supplement A
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted: 10/08/2016
dd/mm/yyyy

MSL Number _____

PIL Number: _____

Site/Project Name: Grassy Mountain Coal Project

Legal land description: LSD _____ Sec _____ Twp 8/9 Rge 3/4 W 5

A. Site Description

1. Stability concerns: Yes No If 'Yes', explain mitigation: See Section 4.1 of PLA Application.

Questions 2, 3, 4 and 5 of section A apply to MSL only. The "Wellsite Spacing Recommendations" may be used as a guide, search for "Wellsite Spacing Recommendations" on srd.alberta.ca.

2. Well type: Oil Sweet Gas Sour Gas (H²S) Coalbed Methane Single Well pad Multi-well pad

Other Coal mine as described in Section 4.1 of the PLA Application.

3. Well depth: N/A

4. Flare requirements for drilling: 50 m 35 m 25 m

Flare pit Flare tank Flare stack

5. Number of zones to be completed/produced N/A Inter-well spacing N/A m.

B. Vehicle/Equipment Access

How will the site be accessed? (Check boxes that apply)

By an existing access held under disposition or jurisdiction (specify name, disposition number, and owner):
Mine access is discussed in Section 4.2 of the PLA Application.

New application (LOC)

New access included in this application.

Note: If access is part of the site and installation application, an access supplement must be submitted.

C. Contamination Prevention

1. Is the boundary of the site located within 100 m of a watercourse? Yes No

If 'Yes', specify distance from edge of lease to top of breaks in meters See below

Explain mitigation strategy if within 100 meters Setback distances and contamination prevention are discussed in Section 3.3.2 and Section 4.3 of the PLA Application

2. Will the site be diked during drilling? Yes No During production? Yes No

If 'No', explain why not. N/A

Will other methods of on-site contamination prevention be required? Explain See Section 4.3 in PLA Application.

Applicable to MSL only

D. Sump

Type of sump (check appropriate box): On-site pit Above-ground tank on site
 In-ground tank on site Remote sump

Remote sump location: LSD _____ Sec _____ Twp _____ Rge _____ W _____

Private land Public land (if location known, indicate on the survey plan)

GPS coordinates: (deg/min/decimal) NAD83 Latitude _____ Longitude _____

Proposed mud type: Hydrocarbon: _____ Salt base: _____ Gel chem: _____

Other: N/A

Applicable to MSL only

Disposal

Estimate volumes to be disposed of: Solids _____ m³ Liquids _____ m³

Proposed disposal method: Mix/bury/cover Land spreading Land farming Pump-off

Disposal on forested public land

Other N/A Approximate date of disposal _____

Private Land

Public Land

Indicate land farming or land spreading location if off site on public land.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Applicable to MSL only

E. Source of Water

1. Water Required: Yes No Water well on lease

2. Offsite source: Offsite water well Lake Stream River

Other (specify type) Water supply sources are discussed in Section 4.5 of the PLA Application.

Location: LSD _____ Sec _____ Twp _____ Rge _____ W _____

3. Access required to water source? Yes No If 'Yes' attach a sketch.

F. Construction Strategy

1. Vegetation Removal

Explain: See Section 4.6 of the PLA Application

2. Brush Disposal

Explain: See Section 4.6 of the PLA Application

3. Topsoil handling: (Check appropriate boxes) No stripping Minimum surface disturbance
 Stripping Single Lift Two Lift Other (Explain) See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 4.6 of the PLA Application.

4. Will padding of the wellsite be required? Yes No,

If 'Yes' Explain: N/A

G. Reclamation Strategy

Revegetation strategy: (Check appropriate boxes) Natural Recovery Native Seed
 Non-native Seed Other See Section 4.7 of the PLA Application

Interim: The reclamation strategy for the mine is discussed in Section 4.7 of the PLA Application.

Production/Operation: The reclamation strategy for the mine is discussed in Section 4.7 of the PLA Application.

Applicable to MSL only

See Appendix III - Lease Description and Wellsite Sizing Information

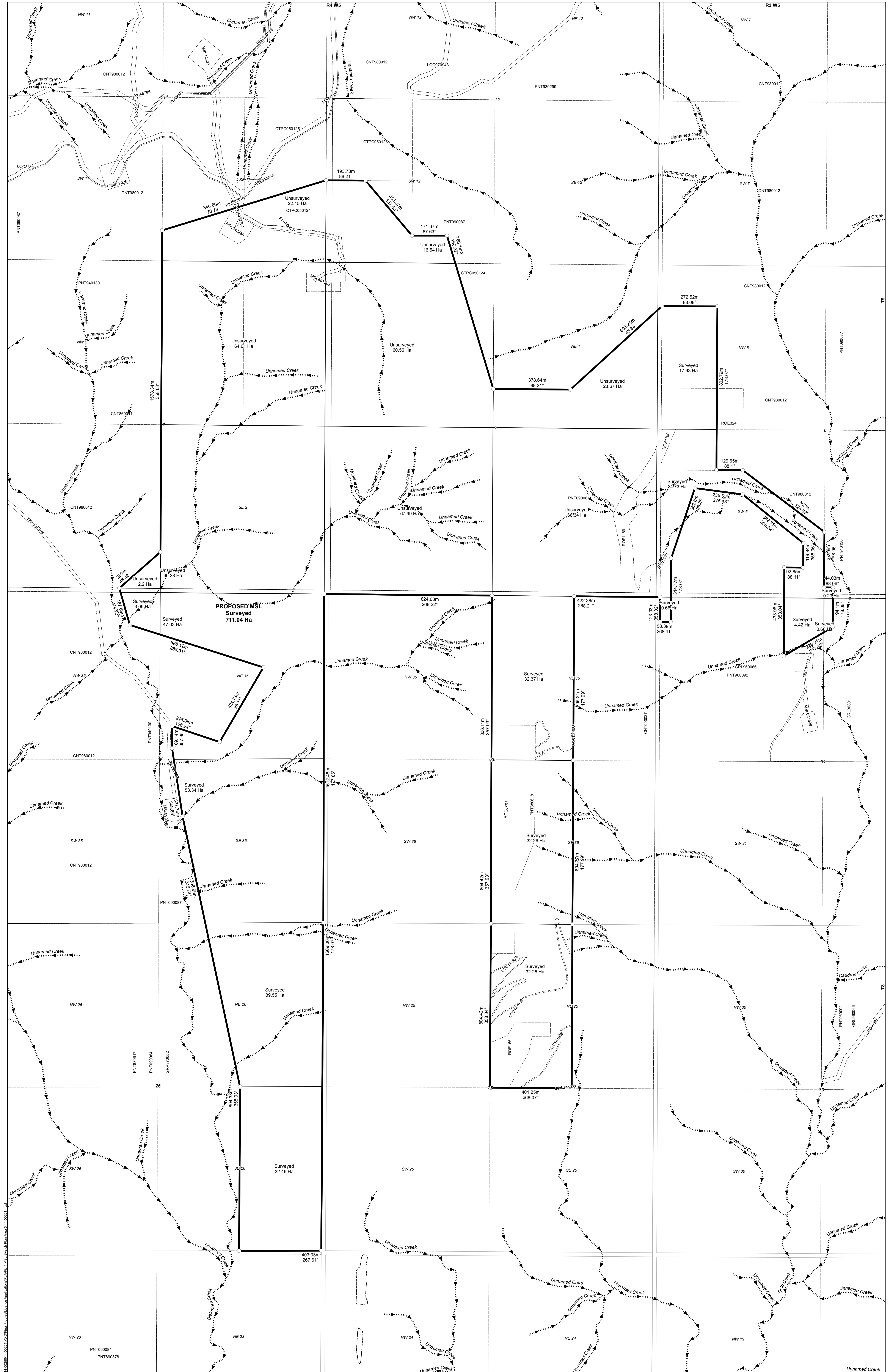
Note: Complete and attach the lease description and wellsite sizing template (in the Appendix) if a non-standard wellsite is required as per the lease description and wellsite sizing document (see instructions).

Operating Condition

Contamination Prevention

136 In addition to complying with Federal, provincial and local laws and regulations respecting the environment, including release of substances, the holder shall, to the regulatory body's satisfaction, take necessary precautions to prevent contamination of land, water bodies and the air with particulate and gaseous matter, which, in the opinion of the regulatory body in its sole discretion, is

or may be harmful.



LEGEND
 ○ Deflection Point
 ● Creek (Flow Direction)
 ▭ Proposed Disposition Boundary
 ▭ Disposition

PROJECT GRASSY MOUNTAIN COAL PROJECT		PROJECT: 14-02201
TITLE PROPOSED MINERAL SURFACE LEASE (MSL) SKETCH PLAN 008/009-03/04 W5		DRAWN BY: JLU/DC
NOTES AtlaLIS, 2016, MEMS, 2016 Datum/Projection: UTM 31M Nad 83		CHECKED BY: KY
		DATE: JULY 29, 2016
		FIGURE 1 of 2

Disclaimer: This figure was derived from multiple data sources and while we make every effort to assure its accuracy, Millennium EMS Solutions Ltd. disclaims any representation or warranty and assumes no liability either for any errors, omission or inaccuracies that may occur.

Selection Criteria

Selected Sections

Geo-Administrative Area: **Y**
 Requested Lands: **Y**
 Title Information: **N**
 Activity Details: **Y**
 Subdivisions: **NA**
 Client List: **Y**

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-03-008-31-NE
 W5-03-008-31-NW
 W5-03-009-06-NW

Public Land Standing

W5-03-009-06-SE
W5-03-009-06-SW
W5-04-008-25-NE
W5-04-008-26-NE
W5-04-008-26-SE
W5-04-008-35-NE
W5-04-008-35-NW
W5-04-008-35-SE
W5-04-008-36-NE
W5-04-008-36-SE
W5-04-009-01
W5-04-009-02-NE
W5-04-009-02-SE
W5-04-009-11-SE
W5-04-009-12-SW

Public Land Standing

Requested Land

Requested Land	Ownership Status	Administered By	Titled Status	Survey Status	Area in Hectares		Area in Acres		
					Land	Title	Land	Title	Water
W5-03-008-31-NW	Crown	FLW	Titled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-03-008-31-NE	Crown	FLW	Untitled	Surveyed	64.345	0.000	159.00	0.00	No Water Coverage
W5-03-009-06-SE	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-03-009-06-SW	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-03-009-06-NW	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-008-25-NE	Mixed	FLW-FRH	Mixed	Surveyed	0.000	32.415	0.00	80.10	No Water Coverage
<i>Remarks: FRHOLD 80.10 LS 9&16 ENR 79.90 LS 10&15</i>									
W5-04-008-26-SE	Crown	FLW	Titled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-008-26-NE	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-008-35-SE	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-008-35-NW	Crown	FLW	Untitled	Surveyed	66.368	0.000	164.00	0.00	No Water Coverage
W5-04-008-35-NE	Crown	FLW	Untitled	Surveyed	65.559	0.000	162.00	0.00	No Water Coverage
W5-04-008-36-SE	Mixed	FLW-FRH	Mixed	Surveyed	0.000	32.415	0.00	80.10	No Water Coverage
<i>Remarks: FRH 80.10 LS 1&8 ENR 79.90 LS 2&7</i>									
W5-04-008-36-NE	Mixed	FLW-FRH	Mixed	Surveyed	0.000	32.375	0.00	80.00	No Water Coverage
<i>Remarks: FRHOLD 80.00 LS 9&16 ENR 80.00 LS 10&15</i>									
W5-04-009-01	Crown	FLW	Untitled	Partly Surveyed	259.000	0.000	640.00	0.00	No Water Coverage
W5-04-009-02-SE	Crown	FLW	Untitled	Surveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-009-02-NE	Crown	FLW	Untitled	Unsurveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-009-11-SE	Crown	FLW	Titled	Unsurveyed	64.750	0.000	160.00	0.00	No Water Coverage
W5-04-009-12-SW	Crown	FLW	Untitled	Unsurveyed	64.750	0.000	160.00	0.00	No Water Coverage
TOTAL					1,167.522	97.205	2,885.01	240.20	

Geo Administrative Areas

ALBERTA ENERGY
REGULATOR

SOUTH REGION

Code: AER-S

W5-03-008
W5-03-009

Public Land Standing

ALBERTA ENERGY REGULATOR	SOUTH REGION		Code: AER-S
W5-04-008			
W5-04-009			
COAL DEVELOPMENT REGION	SETTLED		Code: CDR-1
W5-03-008-31			
W5-04-008-25			
W5-04-008-26			
W5-04-008-36			
COAL DEVELOPMENT REGION	EASTERN SLOPES		Code: CDR-3
W5-03-009-06			
W5-04-008-35			
W5-04-009			
ENVIRONMENT CORPORATE REGION	SOUTHERN		Code: ENV-1
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
ENVIRONMENT CONS. & RECL. DISTRICT	NO. 20		Code: ERD-020
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
EASTERN SLOPE ZONE			Code: ESZ
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
FOREST MANAGEMENT UNIT	SOUTHWEST	C5 SOUTHERN ROCKIES	Code: FMU-C-05
W5-03-009-06			
W5-04-008-35			
W5-04-009			
FOREST MANAGEMENT UNIT	SOUTHWEST	CO2 SOUTHERN ROCKIES	Code: FMU-C-52
W5-03-008-31			

Public Land Standing

FOREST MANAGEMENT UNIT	SOUTHWEST	CO2 SOUTHERN ROCKIES	Code: FMU-C-52
W5-04-008-25			
W5-04-008-26			
W5-04-008-36			
FOREST RESERVE	ROCKY MOUNTAINS		Code: FR-001
W5-03-009-06			
W5-04-008-35			
W5-04-009			
FISH & WILDLIFE ADMIN REGION	SOUTHERN REGION	BLAIRMORE	Code: FWA-1-02
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
FISH AND WILDLIFE DISTRICT	SOUTHERN REGION	BLAIRMORE	Code: FWD-1-09
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
GENERAL LANDS CLASSIFICATION	GREEN		Code: GLC-G
W5-03-009-06			
W5-04-008-35			
W5-04-009			
GENERAL LANDS CLASSIFICATION	WHITE		Code: GLC-W
W5-03-008-31			
W5-04-008-25			
W5-04-008-26			
W5-04-008-36			
GRAZING ZONE	A2		Code: GRZ-A2
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
INTEGRATED RESOURCE PLAN	LIVINGSTONE-PORCUPINE HILLS		Code: IRP-L2

Public Land Standing

INTEGRATED RESOURCE PLAN	LIVINGSTONE-PORCUPINE HILLS		Code: IRP-L2
W5-03-008-31			
W5-03-009			
W5-04-008-25			
W5-04-008-26			
W5-04-008-35			
W5-04-008-36			
W5-04-009			
LAND USE AREA	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
MUNICIPAL DISTRICT	RANCHLAND NO. 66		Code: MD-066
W5-03-008-31			
W5-03-009-06			
W5-04-008-25			
W5-04-008-26			
W5-04-008-35			
W5-04-008-36			
W5-04-009			
OPERATIONAL APPROVAL DISTRICTS	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
W5-03-008			
W5-03-009			
W5-04-008			
W5-04-009			
RANGELAND DISTRICT	SOUTHWEST	ROCKY MOUNTAIN FOREST RESERVE SOUTH	Code: RLD-SW-4
W5-03-009-06			
W5-04-008-35			
W5-04-009			
RANGELAND DISTRICT	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
W5-03-008-31			
W5-04-008-25			
W5-04-008-26			
W5-04-008-36			

Public Land Standing

REGIONAL PLANNING
COMMISSIONS

OLDMAN RIVER

Code: RPC-02

W5-03-008

W5-03-009

W5-04-008

W5-04-009

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
CNT090027	Active/Disposed	2009/03/10	2034/03/31		175,167.31	70,887.690

CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISON OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM
 0510 : BUFFER
 1 : NO RESTRICTON
 710 : SEE COMMENTS

Agency CommentsFOR EAP APPLICATIONS, SEND EMAIL TO BELOW ADDRESS BASED ON CRITERIA. A TEN DAY REFERRAL WINDOW WILL APPLY AND NOTE OF RECIEPT WILL BE PROVIDED BY EMAIL. IF NO REPLY IS RECEIVED THEN PROCEED WITH APPLICATION. NON-EAP APPLICANTS FOLLOW NORMAL REFERRAL PROTOCOLS. ALL PROPONENTS ARE TO REFER TO THE FIRESMART GUIDEBOOK FOR THE OIL AND GAS INDUSTRY, BEST MANAGEMENT PRACTICES FOR WILDFIRE PREVENTION AND FIRESMART FIELD GUIDE FOR WILDFIRE RISK AND MITIGATION STRATEGIES; LINK TO E-DOCUMENTS HTTP://WILDFIRE.ALBERTA.CA/FIRE-SMART-INDUSTRY/DEFAULT.ASPX FIRESMART CONSULATATIVE NOTATION COMMENTS: TYPES OF ACTIVITES AND DISPOSITIONS THAT REQUIRE REFERRAL; *RECREATION LEASE (REC) *DISPOSTION RESERVATION (DRS)-USE CRITERIA FOR MLL* ,SML AND LOC AS DEFINED BELOW *EASEMENT (EZE) *VEGETATION CONTROL EASEMENT (VCE) *LICENSE OF OCCUPATION (LOC)-HIGH GRADE ROAD OR ACCESS ROAD 20M+ WIDE *MINERAL SURFACE LEASE (MSL), *MISCELLANEOUS LEASE (MLL) *MISCELLANEOUS PERMIT (MLP) *PIPELINE AGREEMENT (PLA)-IF 20M+WIDE *PIPELINE INSTALLATION LEASE (PIL)- IF OVER 5 HECTARES *RURAL ELECTRIC ASSOCIATION EASEMENT (REA) *SURFACE MATERIAL LEASE (SML)- ONLY IF PEATMOSS *ALL AGRICULTURAL DISPOSITIONS REQUIRING FENCE LINE CLEARING/FIELD CLEARING AND DEBRIS DISPOSAL *REGIONAL GRAZING/TIMBER INTRGRATION PLANS . ALL APPLICATIONS MUST BE REFERRED VIA EMAIL TO THE "WILDFIRE PREVENTION OFFICER" AT THE CALGARY FORESTRY OFFICE: ESRD.EDS-CLGR-FIRESMART@GOV.AB.CA TYPES OF ACTIVITES AND DISPOSITIONS NOT REQUIRING REFERRAL *GEOPHYSICAL ACTIVITIES. *AGRICULTURAL DISPOSITIONS WHERE CLEARING IS NOT REQUIRED E.G. HAY PERMIT *HAP), FOREST GRAZING LICENSE (FGL) WITH NO FENCE LINES *TIMBER DISPOSITIONS

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)		
5999 RN			2009/02/24		
W5-03-008-31-NE				(0.00)	(0.000)
W5-03-008-31-NW				(0.00)	(0.000)
W5-03-009-06				(640.00)	(259.000)
W5-04-008-25-NE				(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area	
					Acres	Hectares
W5-04-008-26-NE					(0.00)	(0.000)
W5-04-008-26-SE					(0.00)	(0.000)
W5-04-008-35					(646.00)	(261.427)
W5-04-008-36-NE					(0.00)	(0.000)
W5-04-008-36-SE					(0.00)	(0.000)
W5-04-009-01					(640.00)	(259.000)
W5-04-009-02					(640.00)	(259.000)
W5-04-009-11					(640.00)	(259.000)
W5-04-009-12					(640.00)	(259.000)

 CNT860041 Active/Disposed 1986/02/13 2017/02/28 12,280.00 4,969.539

BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV
 0222 : POTENTIAL TIMBER DISPOSAL
 1 : NO RESTRICTON
 710 : SEE COMMENTS

TO DETERMINE VOLUMES AND ESTABLISH AU A.A.CC. WITHIN THE MCCRILLIVARY CREEK MISC. TIMBER USE AREA OF THE CS M.U.

ACTIVITY DETAIL INFORMATION

NO PLANS

W5-04-009-01					(640.00)	(259.000)
W5-04-009-02					(640.00)	(259.000)
W5-04-009-11					(640.00)	(259.000)
W5-04-009-12					(640.00)	(259.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area	
					Acres	Hectares
CNT980012	Active/Disposed	1998/02/17	2018/02/28	BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0363 : SNOWMOBILE TRAILS 1 : NO RESTRICTON 710 : SEE COMMENTS THESE TRAILS MANAGED/MAINTAINED BY CROWSNEST ECONOMIC DEVELOPMENT BOARD. INCLUDES ALL THEORETICAL ROAD ALLOWANCE. REFER ALL DISPOSITIONS TO L&FS-BLAIRMORE. SKETCH ON FILE.	1,840.26	744.727

ACTIVITY DETAIL INFORMATION

NO PLANS

W5-03-009-06-NW	(4.00)	(1.619)
W5-03-009-06-SE	(4.00)	(1.619)
W5-03-009-06-SW	(4.00)	(1.619)
W5-04-008-35-NW	(4.00)	(1.619)
W5-04-009-11	(16.00)	(6.475)

CTPC050124	Active/Disposed	2016/05/31	2018/04/30	EGBERT VELDMAN	320.00	129.500
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ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): PURPOSE:
DIMENSION: CLIENT FILE NO:

NO PLANS

W5-04-009-01-NW
W5-04-009-02-09
W5-04-009-02-16
W5-04-009-11-01
W5-04-009-12-04

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
CTPC050125	Active/Disposed	2016/06/07	2018/04/30	HENRY VELDMAN	80.56	32.600
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-009-11-08						
W5-04-009-12-05						
EZE 990090	Letter of Authority	1999/07/07	2999/12/31	DEVON CANADA CORPORATION	8.98	3.635
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: POWERLINE		
DIMENSION: 5M X 7615M		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
8113 T			1999/06/10			
W5-04-009-11-SE						
W5-04-009-12-SW						
GRL 36801	Active/Disposed	1962/12/01	2022/11/30	DON DRIVER	1,119.00	452.843
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N): N		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
3031 SK			1962/12/01			

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares								
W5-03-008-31-NE					(159.00)	(64.345)								

GRL 960066	Active/Disposed	1996/06/15	2016/06/14	DON DRIVER	480.00	194.249								
<p style="text-align: center;">ACTIVITY DETAIL INFORMATION</p> <p>OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): Y PURPOSE:</p> <p>DIMENSION: CLIENT FILE NO:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">PLAN NO</th> <th style="width: 25%;">LTO PLAN NO</th> <th style="width: 25%;">ITEM</th> <th style="width: 25%;">VERSION DATE(S)</th> </tr> </thead> <tbody> <tr> <td>4556 SK</td> <td></td> <td></td> <td>1996/06/20</td> </tr> </tbody> </table>							PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)	4556 SK			1996/06/20
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)											
4556 SK			1996/06/20											
W5-03-008-31-NW					(160.00)	(64.750)								

GRP 870052	Active/Disposed	1989/01/01	2017/12/31	GOLD CREEK GRAZING CO-OP LTD.	3,427.00	1,386.858								
<p style="text-align: center;">ACTIVITY DETAIL INFORMATION</p> <p>OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): PURPOSE:</p> <p>DIMENSION: CLIENT FILE NO:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">PLAN NO</th> <th style="width: 25%;">LTO PLAN NO</th> <th style="width: 25%;">ITEM</th> <th style="width: 25%;">VERSION DATE(S)</th> </tr> </thead> <tbody> <tr> <td>7919 SK</td> <td></td> <td></td> <td>1990/06/01</td> </tr> </tbody> </table>							PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)	7919 SK			1990/06/01
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)											
7919 SK			1990/06/01											
W5-04-008-26-NE					(160.00)	(64.750)								
W5-04-008-26-SE					(160.00)	(64.750)								

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Hectares
LOC 4111	Letter of Authority for Amendment	2011/01/27	2999/12/31	DEVON CANADA CORPORATION INCLUDES ROAD ALLOWANCE/S: REFER TO FILE INCLUDES ROAD ALLOWANCE/S: REFER TO FILE ACTIVITY DETAIL INFORMATION OPTION TO PURCHASE (Y/N): N DIMENSION: 20.12 M X 5594 M AND VARIABLE WIDTH X 234 M WITHIN 100M OF WATERBODY (Y/N): CLIENT FILE NO: PURPOSE: ACCESS ROAD	29.41	11.901
				PLAN NO	LTO PLAN NO	VERSION DATE(S)
				3454 TL		2010/12/13
				W5-04-009-11-SE		(0.00)
				W5-04-009-12-SW	AND ADJ THEO ROAD ALL'CE	(0.00)

LOC 141938	Letter of Authority	2015/03/06	2040/03/05	BENGA MINING LTD. ACTIVITY DETAIL INFORMATION OPTION TO PURCHASE (Y/N): DIMENSION: 5m x 3.22 km WITHIN 100M OF WATERBODY (Y/N): CLIENT FILE NO: PURPOSE: ACCESS ROAD	3.68	1.490
				PLAN NO	LTO PLAN NO	VERSION DATE(S)
				30723 TL		2014/11/07
				W5-04-008-25-NE	in west half of 1/4	(2.92)
				W5-04-008-36-NE	in sw 1/4 of 1/4	(0.68)
				W5-04-008-36-SE	iin sw 1/4 of 1/4	(0.08)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
LOC 890772	Active/Disposed	1989/10/06	2014/10/05	TAQA NORTH LTD.	10.49	4.245

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION: 15 M X 2.83 KM WITHIN 100M OF WATERBODY (Y/N): CLIENT FILE NO: PURPOSE: ACCESS ROAD

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
36298 MS			1989/09/07

W5-04-008-35-NE	(0.00)	(0.000)
W5-04-008-35-NW	(0.00)	(0.000)
W5-04-008-35-SE	(0.00)	(0.000)

MSL 12533	Letter of Authority for Amendment	1997/06/27	2026/05/16		6.51	2.633
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DEVON CANADA CORPORATION

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N DIMENSION: W/S - IRREGULAR; A/R - 20.117 M WITHIN 100M OF WATERBODY (Y/N): N CLIENT FILE NO:S001374 PURPOSE: WELLSITE AND ACCESS ROAD

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
13785 MS			1858/11/17
13785 MS		A	1997/06/18
13785 MS			1997/06/18

W5-04-009-11-SE	(0.00)	(0.000)
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Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
MSL 011735	Letter of Authority	2001/05/10	2026/05/09	CANADIAN NATURAL RESOURCES LIMITED	2.79	1.128
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: WELLSITE AND ACCESS ROAD		
DIMENSION: IRREGULAR; 7M A/R		CLIENT FILE NO:S008129				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
79371 MS			2001/04/18			
W5-03-008-31-NW					(2.79)	(1.128)

MSL 021309	Letter of Authority	2002/06/26	2027/06/25	CANADIAN NATURAL RESOURCES LIMITED	2.15	0.870
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: WELLSITE AND ACCESS ROAD		
DIMENSION: W/S - IRREGULAR ; A/R - 20 X 123.85 M		CLIENT FILE NO:02-1826				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
84607 MS			2002/06/13			
W5-03-008-31-NW					(2.15)	(0.870)

MSL 043285	Letter of Authority for Amendment	2005/09/19	2029/12/19	DEVON CANADA CORPORATION	3.74	1.514
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: WELLSITE		
DIMENSION: IRREGULAR		CLIENT FILE NO:DEV#9565				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
96823 MS			2005/09/15			
W5-04-009-11-SE					(3.74)	(1.514)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
MSL 801502	Active/Disposed	1980/08/29	2030/08/28	DEVON CANADA CORPORATION	8.33	3.371
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N): N		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: WELLSITE		
DIMENSION:		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
21117 MS			1858/11/17			
W5-04-009-01-NW				(0.00)	(0.000)	
W5-04-009-02-NE				(0.00)	(0.000)	
W5-04-009-11-SE				(0.00)	(0.000)	
W5-04-009-12-SW				(0.00)	(0.000)	
MSL 890948	Active/Disposed	1989/10/06	2014/10/05	TAQA NORTH LTD.	2.29	0.925
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: WELLSITE		
DIMENSION: IRREGULAR		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
36298 MS			1989/09/07			
W5-04-008-35-SE				(2.29)	(0.925)	

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PIL 050504	Letter of Authority	2005/10/06	2030/10/05	DEVON CANADA CORPORATION	0.10	0.040
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: VALVE SITE AND ACCESS ROAD		
DIMENSION: 15 M X 20 M & 10 M A/R		CLIENT FILE NO:DEV#P1616				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
59171 P			2005/08/17			
W5-04-009-11-SE					(0.10)	(0.040)
PLA 5009	Active/Disposed	1974/06/26	2999/12/31	LONLIFE RESOURCES LTD NORCO RESOURCES LIMITED CANADIAN NATURAL RESOURCES LIMITED OPINAC EXPLORATION LIMITED	21.78	8.814
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N): N		WITHIN 100M OF WATERBODY (Y/N): Y		PURPOSE: PIPELINE		
DIMENSION: 20, 60 AND 75 FT		CLIENT FILE NO:G-34,792				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
5462 P	7411056		1999/04/26			
W5-04-009-11					(640.00)	(259.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PLA 5796	Active/Disposed	1975/04/02	2999/12/31		18.56	7.511

DEVON CANADA CORPORATION
 SCURRY RAINBOW OIL LIMITED 34.1688% OPINAC EXPLORATION LIMITED 9.3899%
 NORCEN ENERGY RESOURCES LIMITED 22/3899% NORCO RESOURCES LIMITED 3.5000%
 HERSHEY OIL CORPORATION 20.2994% AMERADA HESS CANADA LTD. 10.2520%
 SCURRY RAINBOW OIL LIMITED 34.1688%
 OPINAC EXPLORATION LIMITED 9.3899%
 NORCEN ENERGY RESOURCES LIMITED 22/3899%
 NORCO RESOURCES LIMITED 3.5000%
 HERSHEY OIL CORPORATION 20.2994%
 AMERADA HESS CANADA LTD. 10.2520%

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N WITHIN 100M OF WATERBODY (Y/N): PURPOSE: PIPELINE
 DIMENSION: 4.572 M (WIDENING), 18.288 M CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
6091 P	7610241		1988/08/15

W5-04-009-11 (640.00) (259.000)

PLA 052764	Letter of Authority for Amendment	2008/06/12	2999/12/31		0.34	0.139
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DEVON CANADA CORPORATION

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): N PURPOSE: PIPELINE
 DIMENSION: 10 M CLIENT FILE NO:1616

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
59169 P	0613401		2008/06/09

W5-04-009-11-SE (0.34) (0.139)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PLA 800692	Active/Disposed	1981/02/17	2999/12/31	LONLIFE RESOURCES LTD NORCO RESOURCES LIMITED CANADIAN NATURAL RESOURCES LIMITED OPINAC EXPLORATION LIMITED FOR RELATED CLIENTS REFER TO ASSIGNMENT FORM LG54 FOR RELATED CLIENTS REFER TO ASSIGNMENT FORM LG54 ACTIVITY DETAIL INFORMATION OPTION TO PURCHASE (Y/N): N DIMENSION: 15 M (W) PLAN NO LTO PLAN NO ITEM VERSION DATE(S) 10434 P 8111128 1988/07/18	5.21	2.108
					(0.00)	(0.000)
					(0.00)	(0.000)
					(0.00)	(0.000)
					(0.00)	(0.000)
PLA 800809	Active/Disposed	1980/10/24	2999/12/31	LONLIFE RESOURCES LTD NORCO RESOURCES LIMITED CANADIAN NATURAL RESOURCES LIMITED OPINAC EXPLORATION LIMITED FOR RELATED CLIENTS REFER TO LG 54 ON FILE FOR RELATED CLIENTS REFER TO LG 54 ON FILE ACTIVITY DETAIL INFORMATION OPTION TO PURCHASE (Y/N): N DIMENSION: 10 M (W) PLAN NO LTO PLAN NO ITEM VERSION DATE(S) 10152 P 8111664 1988/07/18	3.11	1.259
					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares								
PLA 920136	Active/Disposed	1985/12/12	2999/12/31	DEVON CANADA CORPORATION HOME OIL COMPANY LIMITED 34.1688% OPINAC EXPLORATION LIMITED 9.3899% NORCEN ENERGY RESOURCES LIMITED 22,3899% NORCO RESOURCES LIMITED 3.5000% HERSHEY OIL CORPORATION 20.2994% AMERADA HESS CANADA LTD. 10.2520% HOME OIL COMPANY LIMITED 34.1688% OPINAC EXPLORATION LIMITED 9.3899% NORCEN ENERGY RESOURCES LIMITED 22,3899% NORCO RESOURCES LIMITED 3.5000% HERSHEY OIL CORPORATION 20.2994% AMERADA HESS CANADA LTD. 10.2520% ACTIVITY DETAIL INFORMATION OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): Y PURPOSE: PIPELINE DIMENSION: VARIABLE WIDTHS CLIENT FILE NO: <table border="1"> <thead> <tr> <th>PLAN NO</th> <th>LTO PLAN NO</th> <th>ITEM</th> <th>VERSION DATE(S)</th> </tr> </thead> <tbody> <tr> <td>17308 P</td> <td>8410872</td> <td></td> <td>1992/02/13</td> </tr> </tbody> </table>	PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)	17308 P	8410872		1992/02/13	1.78	0.720
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)											
17308 P	8410872		1992/02/13											
W5-04-009-11-SE	LYING WITHIN PLAN 7411056 (FLW PLAN NO. 5462 P).				(0.00)	(0.002)								

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT090084	Active/Disposed	2011/10/20	2021/10/19		132,888.84	53,778.200

PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV
 0181 : MULTIPLE RESOURCE CONCERNS
 5 : NO SURFACE SALE DISPOSITIONS
 710 : SEE COMMENTS

THIS LOCATION MAY FALL WITHIN AN AREA OF FOOTHILLS FESCUE GRASSLAND, A VERY VALUABLE NATIVE GRASSLAND TYPE THAT IS LIMITED IN REMAINING AREA. ROUGH FESCUE GRASSLANDS ARE VERY SENSITIVE TO SURFACE DISTURBANCE AND DIFFICULT AND COSTLY TO RECLAIM. PROPONENTS MUST CONSULT INFORMATION LETTER (IL) 2010-02, FESCUE GRASSLANDS -- PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE AND MAKE EARLY CONTACT WITH ALBERTA ENVIRONMENT & SUSTAINABLE RESOURCE DEVELOPMENT STAFF FOR THE AREA IN QUESTION. THE INFORMATION LETTER ADDRESSES OBLIGATIONS AND SPECIFIC DIRECTION REGARDING ALL POTENTIAL SURFACE DISTURBANCE RELATED ACTIVITY IN FOOTHILLS ROUGH FESCUE GRASSLAND PLANT COMMUNITIES. THIS DIRECTIVE SUPPLEMENTS THE ERCB'S IL 2002-01: PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE IN NATIVE PRAIRIE AND PARKLAND AREAS. IL 2010-02 MAY BE FOUND AT:
[HTTP://WWW.SRD.ALBERTA.CA/FORMSONLINESERVICES/INFORMATIONLETTERS/LANDSINFORMATIONLETTERS/DOCUMENTS/IL2010-02-FOOTHILLSFESCUEGRASSLANDPRINCIPLESFORMINIMIZINGSURFACEDISTURBANCE-MAR23-2010.PDF](http://www.srd.alberta.ca/formsonlineservices/informationletters/landsinformationletters/documents/il2010-02-foothillsfescuegrasslandprinciplesforminimizingsurfacedisturbance-mar23-2010.pdf) IL 2002-01 MAY BE FOUND AT:
[HTTP://WWW.ALBERTAPCF.ORG/RSU_DOCS/EUB_NATIVE_PRAIRIE.PDF](http://www.albertapcf.org/rsu_docs/eub_native_prairie.pdf)

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
7837 RN			2011/09/09
7837 RN			2013/03/15
W5-04-008-26-NE			
W5-04-008-26-SE			

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area Acres	Hectares
PNT090087	Active/Disposed	2011/10/19	2021/10/18	<p>PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0181 : MULTIPLE RESOURCE CONCERNS 5 : NO SURFACE SALE DISPOSITIONS 710 : SEE COMMENTS</p> <p>THIS LOCATION MAY FALL WITHIN AN AREA OF FOOTHILLS FESCUE GRASSLAND, A VERY VALUABLE NATIVE GRASSLAND TYPE THAT IS LIMITED IN REMAINING AREA. ROUGH FESCUE GRASSLANDS ARE VERY SENSITIVE TO SURFACE DISTURBANCE AND DIFFICULT AND COSTLY TO RECLAIM. PROPONENTS MUST CONSULT (DRAFT 2009) INFORMATION LETTER, FESCUE GRASSLANDS-- PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE AND MAKE EARLY CONTACT WITH ALBERTA SUSTAINABLE RESOURCE DEVELOPMENT STAFF FOR THE AREA IN QUESTION. THE IL ADDRESSES OBLIGATIONS AND SPECIFIC DIRECTION REGARDING ALL POTENTIAL SURFACE DISTURBANCE RELATED ACITIVITY IN FOOTHILLS ROUGH FESCUE GRASSLAND PLANT COMMUNITIES. THIS DIRECTIVE SUPPLEMENTS THE ERCB'S IL 2002-1, PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE IN NATIVE PRAIRIE AND PARKLAND AREAS. THE DRAFT 2009 IL MAY BE FOUND AT : HTTP://SRD.ALBERTA.CA/MAPSFORMSPUBLICATIONS/FORMS/LANDSFORMS/INFORMATIONLETTERS.ASPX IL 2002-1 MAY BE FOUND AT: HTTP://WWW.ERCB.CA/PORTAL/SERVER.PT/GATEWAY/PTARGS_0_0_323_253_0_43/HTTP%3B/ERCBCONTENT/PUBLISHEDCONTENT/PUBLISH/ERCB_HOME/INDUSTRY_ZONE/RULES_REGULATIONS_REQUIREMENTS/INFORMATION_LETTERS_INTERIM_DIRECTIVES/INFORMATIONAL_LETTERS/IL2002_01.ASPX</p>	420,194.02	170,046.474

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION	DATE(S)	Acres	Hectares
7839 RN				2011/09/14		
W5-03-009-06					(640.00)	(259.000)
W5-04-008-35-SE					(0.00)	(0.000)
W5-04-009-01-NW					(0.00)	(0.000)
W5-04-009-01-SE					(0.00)	(0.000)
W5-04-009-02					(640.00)	(259.000)
W5-04-009-11					(640.00)	(259.000)
W5-04-009-12-SW					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT880617	Active/Disposed	1988/12/12	2999/12/31	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0142 : STEEP ROLLING TOPOGRAPHY 3 : NO AGRICULTURAL DISPOSITION 110 : UNIMPROVED GRAZING	640.00	258.999
ACTIVITY DETAIL INFORMATION						
NO PLANS						
W5-04-008-26-NE					(160.00)	(64.750)
W5-04-008-26-SE					(160.00)	(64.750)
PNT880618	Active/Disposed	1988/12/12	2999/12/31	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0142 : STEEP ROLLING TOPOGRAPHY 3 : NO AGRICULTURAL DISPOSITION	239.60	96.963
ACTIVITY DETAIL INFORMATION						
NO PLANS						
W5-04-008-25-10					(39.85)	(16.127)
W5-04-008-25-15					(39.85)	(16.127)
W5-04-008-36-02					(39.90)	(16.147)
W5-04-008-36-07					(40.00)	(16.187)
W5-04-008-36-10					(40.00)	(16.187)
W5-04-008-36-15					(40.00)	(16.187)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT930299	Active/Disposed	1993/08/23	2018/08/31		122,762.00	49,680.015

ROCKY MTN FOREST RESERVE SOUTH OFFICE - RANGELAND DISTRICT
 DEPT. OF SUSTAINABLE RESOURCE DEV
 0165 : GRAZING ALLOTMENT AREA
 3 : NO AGRICULTURAL DISPOSITION
 130 : GRAZING PERMIT ONLY
 710 : SEE COMMENTS

#14 GAP RANGE ALLOTMENT - FOREST RESERVE HEAD TAX PERMITS ONLY, SKETCH ON FILE.

ACTIVITY DETAIL INFORMATION

NO PLANS

W5-04-009-01-NE					(20.00)	(8.094)
W5-04-009-01-NW					(5.00)	(2.023)
W5-04-009-11-SE					(75.00)	(30.351)
W5-04-009-12					(640.00)	(259.000)

PNT940130	Active/Disposed	1994/04/14	2019/04/30		18,469.06	7,474.163
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ROCKY MTN FOREST RESERVE SOUTH OFFICE - RANGELAND DISTRICT
 DEPT. OF SUSTAINABLE RESOURCE DEV
 0165 : GRAZING ALLOTMENT AREA
 3 : NO AGRICULTURAL DISPOSITION
 130 : GRAZING PERMIT ONLY
 710 : SEE COMMENTS

#3 BLAIRMORE - GOLD RANGE ALLOTMENT - FOREST RESERVE. HEAD TAX PERMITS ONLY

ACTIVITY DETAIL INFORMATION

NO PLANS

W5-03-009-06					(640.00)	(259.000)
W5-04-008-35					(646.00)	(261.427)
W5-04-009-01					(640.00)	(259.000)
W5-04-009-02					(640.00)	(259.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
W5-04-009-11					(640.00)	(259.000)
W5-04-009-12-SW					(45.00)	(18.211)

PNT960092	Active/Disposed	1996/04/18	2999/12/31	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0142 : STEEP ROLLING TOPOGRAPHY 3 : NO AGRICULTURAL DISPOSITION 100 : GRAZING HAYING 710 : SEE COMMENTS THESE LANDS BEST SUITED FOR GRAZING DUE TO STEEP SLOPES RANGING FROM 15% TO > 30%. LANDS WERE ACQUIRED THROUGH LAND EXCHANGE IN 1993. PRIME WATERHSED PROTECTION ALONG GOLD CREEK AND FISH HABITAT; POTENTIALLY VALUABLE FOR UNGULATE HABITAT AND POTENTIAL FOR REFORESTATION UNDER A MULTIPLE USE PLAN.	480.00	194.249
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ACTIVITY DETAIL INFORMATION

NO PLANS

W5-03-008-31-NW					(160.00)	(64.750)
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ROE 156	Active/Disposed	1947/06/27	2999/12/31	DEVON CANADA CORPORATION	13.10	5.301
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ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N WITHIN 100M OF WATERBODY (Y/N): PURPOSE: COAL MINING
DIMENSION: IRREGULAR CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
36584 MS			1989/11/17

W5-04-008-25-10					(13.10)	(5.301)
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Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
ROE 324	Active/Disposed	1951/01/22	2999/12/31	DEVON CANADA CORPORATION	40.00	16.187
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N): N		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: COAL MINING		
DIMENSION: PARTS OF LSDS		CLIENT FILE NO:				
NO PLANS						
W5-03-009-06-05-NE					(10.00)	(4.047)
W5-03-009-06-05-NW					(10.00)	(4.047)
W5-03-009-06-12-SE					(10.00)	(4.047)
W5-03-009-06-12-SW					(10.00)	(4.047)

ROE 1169	Active/Disposed	1954/03/15	2999/12/31	DEVON CANADA CORPORATION	18.23	7.377
INCLUDES ROAD ALLOWANCE/S: REFER TO FILE						
INCLUDES ROAD ALLOWANCE/S: REFER TO FILE						
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N): N		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: COAL MINING		
DIMENSION: IRREGULAR		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
228 F			1858/11/17			
228 F		A	1858/11/17			
W5-03-009-06-04					(0.00)	(0.000)
W5-03-009-06-05					(0.00)	(0.000)
W5-04-009-01-01					(0.00)	(0.000)
W5-04-009-01-08					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
ROE 8751	Active/Disposed	1952/09/08	2999/12/31	DEVON CANADA CORPORATION	0.00	0.000

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N WITHIN 100M OF WATERBODY (Y/N): PURPOSE: COAL MINING
 DIMENSION: IRREGULAR CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
51005 MS			1858/11/17

W5-04-008-25-NE	(0.00)	(0.000)
W5-04-008-36-NE	(0.00)	(0.000)
W5-04-008-36-SE	(0.00)	(0.000)

TFA 134555	Active/Disposed	2013/07/15	2014/07/15	BENGA MINING LTD.
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ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): PURPOSE: EDUCATIONAL/RESEARCH
 DIMENSION: CLIENT FILE NO: ACTIVITY

NO PLANS			
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W5-03-009-06-SW	(0.00)	(0.000)
W5-04-008-26-SE	(0.00)	(0.000)
W5-04-008-35-SE	(0.00)	(0.000)
W5-04-009-01-SW	(0.00)	(0.000)
W5-04-009-11-SE	(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
TFA 144977	Active/Disposed	2014/07/18	2015/07/18	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-36-NE					(0.00)	(0.000)
W5-04-009-01-SE					(0.00)	(0.000)

TFA 145313	Active/Disposed	2014/07/31	2015/07/31	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-26-NE					(0.00)	(0.000)
W5-04-008-26-SE					(0.00)	(0.000)
W5-04-008-35					(646.00)	(261.427)
W5-04-009-01					(640.00)	(259.000)
W5-04-009-02					(640.00)	(259.000)
W5-04-009-11					(640.00)	(259.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
TFA 145540	Active/Disposed	2014/08/19	2015/08/19	DEVON CANADA CORPORATION		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER R, M & E-Piezometer		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-009-11-SE					(0.00)	(0.000)

TFA 152808	Active/Disposed	2015/03/26	2015/06/30	PHILIP HANSEN		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: Access - Temporary Commercial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-009-01-NW					(0.00)	(0.000)

TFA 154961	Active/Disposed	2015/08/20	2016/08/19	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-03-008-31-NW					(0.00)	(0.000)
W5-03-009-06-NW					(0.00)	(0.000)
W5-03-009-06-SW					(0.00)	(0.000)
W5-04-009-01-SE					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
TFA 155858	Active/Disposed	2015/10/20	2016/10/19	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-03-008-31-NW					(0.00)	(0.000)
W5-03-009-06-SW					(0.00)	(0.000)
W5-04-008-35-NE					(0.00)	(0.000)
W5-04-008-35-NW					(0.00)	(0.000)
W5-04-008-35-SE					(0.00)	(0.000)
W5-04-009-01-NW					(0.00)	(0.000)
W5-04-009-01-SW					(0.00)	(0.000)
W5-04-009-02-NE					(0.00)	(0.000)
W5-04-009-02-SE					(0.00)	(0.000)
TFA 162596	Active/Disposed	2016/04/08	2017/04/07	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-03-009-06-NW					(0.00)	(0.000)
W5-04-009-01-NE					(0.00)	(0.000)
W5-04-009-01-SE					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
TPA 1677	Active/Disposed	1986/08/29	2017/06/30	TERRY D MICHALSKY	0.00	0.000
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-03-009-06					(0.00)	(0.000)
W5-04-008-35					(0.00)	(0.000)
W5-04-009-01					(0.00)	(0.000)
W5-04-009-02					(0.00)	(0.000)
W5-04-009-11-01	S/DAISY-GOLD CR DIV				(0.00)	(0.000)
W5-04-009-11-02	S/DAISY-GOLD CR DIV & W/DAISY-VICEROY CR DIV				(0.00)	(0.000)
W5-04-009-12-03	S/DAISY-GOLD CR DIV				(0.00)	(0.000)
W5-04-009-12-04	S/DAISY-GOLD CR DIV				(0.00)	(0.000)
TPA 2426	Active/Disposed	1986/08/19	2016/06/30	JERRY D NEWMAN	0.00	0.000
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-009-11-01	N/DAISY-GOLD CR DIV				(0.00)	(0.000)
W5-04-009-11-02	N/DAISY-GOLD CR DIV & E/DAISY-VICEROY CR DIV				(0.00)	(0.000)
W5-04-009-11-07					(0.00)	(0.000)
W5-04-009-11-08					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area	
					Acres	Hectares
W5-04-009-12-03	N/DAISY-GOLD CR DIV				(0.00)	(0.000)
W5-04-009-12-04	N/DAISY-GOLD CR DIV				(0.00)	(0.000)
W5-04-009-12-05					(0.00)	(0.000)
W5-04-009-12-06					(0.00)	(0.000)

Public Land Standing**Client List**

Activity	Client ID	Name / Address	Province	Country	Postal Code
CNT090027	8072051-001	CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISION OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM WILDFIRE MANAGEMENT BRANCH CALGARY WILDFIRE MANAGEMENT AREA 8660 BEARSPAW DAM RD NW CALGARY	Alberta	CANADA	T3L 1S4
CNT860041	8059629-001	BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV PO BOX 540 BLAIRMORE	Alberta	CANADA	T0K 0E0
CNT980012	8059629-001	BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV PO BOX 540 BLAIRMORE	Alberta	CANADA	T0K 0E0
CTPC050124	8029082-001	EGBERT VELDMAN PO BOX 82 HILLCREST MINES	AB	CANADA	T0K 1C0
CTPC050125	8034413-001	HENRY VELDMAN PO BOX 285 HILLCREST MINES	Alberta	CANADA	T0K 1C0
EZE 990090	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
GRL 36801	8042482-001	DON DRIVER PO BOX 279 FORT MACLEOD	AB	CANADA	T0L 0Z0
GRL 960066	8042482-001	DON DRIVER PO BOX 279 FORT MACLEOD	AB	CANADA	T0L 0Z0
GRP 870052	8017779-001	GOLD CREEK GRAZING CO-OP LTD. PO BOX 265			

Public Land Standing

		FORT MACLEOD	Alberta	CANADA	T0L 0Z0
LOC 4111	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
LOC 141938	1008823-002	BENGA MINING LTD. 4300 B ST STE 307 ANCHORAGE	Alaska	UNITED STATES	99503-593
LOC 890772	8090158-001	TAQA NORTH LTD. PO BOX 2350 STN M 308 4 AVE SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 0H7
MSL 12533	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
MSL 011735	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
MSL 021309	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
MSL 043285	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
MSL 801502	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
MSL 890948	8090158-001	TAQA NORTH LTD. PO BOX 2350 STN M 308 4 AVE SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 0H7
PIL 050504	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000			

Public Land Standing

		CALGARY	Alberta	CANADA	T2P 4H2
PLA 5009	8006366-002	LONLIFE RESOURCES LTD C/O CANADIAN NATURAL RESOURCES LIM 855 2 ST SW SUITE 2500 CALGARY	AB	CANADA	T2P 4J8
PLA 5009	8006368-003	NORCO RESOURCES LIMITED 528 15 AVE SW SUITE 404 CALGARY	Alberta	CANADA	T2R 0R2
PLA 5009	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
PLA 5009	8014043-001	OPINAC EXPLORATION LIMITED KEN RUTHERFORD CAPTIVA RESOURCES CORPORATION 736 6 AVE SW SUITE 1000 CALGARY	Alberta	CANADA	T2P 3T7
PLA 5796	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
PLA 052764	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
PLA 800692	8006366-001	LONLIFE RESOURCES LTD 521 3 AVE SW FLOOR 12 CALGARY	Alberta	CANADA	T2P 3T3
PLA 800692	8006368-003	NORCO RESOURCES LIMITED 528 15 AVE SW SUITE 404 CALGARY	Alberta	CANADA	T2R 0R2
PLA 800692	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
PLA 800692	8014043-001	OPINAC EXPLORATION LIMITED			

Public Land Standing

		KEN RUTHERFORD CAPTIVA RESOURCES CORPORATION 736 6 AVE SW SUITE 1000 CALGARY	Alberta	CANADA	T2P 3T7
PLA 800809	8006366-001	LONLIFE RESOURCES LTD 521 3 AVE SW FLOOR 12 CALGARY	Alberta	CANADA	T2P 3T3
PLA 800809	8006368-003	NORCO RESOURCES LIMITED 528 15 AVE SW SUITE 404 CALGARY	Alberta	CANADA	T2R 0R2
PLA 800809	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
PLA 800809	8014043-001	OPINAC EXPLORATION LIMITED KEN RUTHERFORD CAPTIVA RESOURCES CORPORATION 736 6 AVE SW SUITE 1000 CALGARY	Alberta	CANADA	T2P 3T7
PLA 920136	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
PNT090084	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT090087	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT880617	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420			

Public Land Standing

		PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT880618	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420			
		PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT930299	8079006-001	ROCKY MTN FOREST RESERVE SOUTH OFFICE - RANGELAND DISTRICT DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420			
		PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT940130	8079006-001	ROCKY MTN FOREST RESERVE SOUTH OFFICE - RANGELAND DISTRICT DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420			
		PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT960092	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420			
		PINCHER CREEK	Alberta	CANADA	T0K 1W0
ROE 156	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
ROE 324	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
ROE 1169	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
ROE 8751	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
TFA 134555	1008823-002	BENGA MINING LTD.			

Public Land Standing

		4300 B ST STE 307 ANCHORAGE	Alaska	UNITED STATES	99503-593
TFA 144977	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TFA 145313	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TFA 145540	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
TFA 152808	1013685-001	PHILIP HANSEN 2203 VICTORIA CRES NW CALGARY	Alberta	CANADA	T2M 4E4
TFA 154961	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TFA 155858	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TFA 162596	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TPA 1677	8046800-001	TERRY D MICHALSKY PO BOX 342 COLEMAN	AB	CANADA	T0K 0M0
TPA 2426	1002496-001	JERRY D NEWMAN PO BOX 26			

Public Land Standing

HILLCREST

AB

CANADA

T0K 1C0

Total Activities: 46

DISCLAIMER

THIS STANDING REPORT IS PROVIDED SUBJECT TO THE CONDITION THAT HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ALBERTA AND HER EMPLOYEES:

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*** END OF REPORT ***

Selection Criteria

Selected Sections

Geo-Administrative Area:	Y
Requested Lands:	Y
Title Information:	N
Activity Details:	Y
Subdivisions:	NA
Client List:	Y

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-04-008-13-NE
W5-04-008-13-NW
W5-04-008-13-SW

Public Land Standing

W5-04-008-14-NE

W5-04-008-14-SE

Public Land Standing

FISH & WILDLIFE REFERRAL LANDS			Code: FWR
W5-04-008-13			
W5-04-008-14			
GENERAL LANDS CLASSIFICATION	WHITE		Code: GLC-W
W5-04-008-13			
W5-04-008-14			
GRAZING ZONE	A2		Code: GRZ-A2
W5-04-008			
INTEGRATED RESOURCE PLAN	LIVINGSTONE-PORCUPINE HILLS		Code: IRP-L2
W5-04-008-13			
W5-04-008-14			
LAND USE AREA	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
W5-04-008			
MUNICIPAL DISTRICT	RANCHLAND NO. 66		Code: MD-066
W5-04-008-13			
W5-04-008-14			
OPERATIONAL APPROVAL DISTRICTS	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
W5-04-008			
RANGELAND DISTRICT	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
W5-04-008-13			
W5-04-008-14			
REGIONAL PLANNING COMMISSIONS	OLDMAN RIVER		Code: RPC-02
W5-04-008			

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
CNT090027	Active/Disposed	2009/03/10	2034/03/31		175,167.31	70,887.690

CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISON OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM
 0510 : BUFFER
 1 : NO RESTRICTON
 710 : SEE COMMENTS

Agency CommentsFOR EAP APPLICATIONS, SEND EMAIL TO BELOW ADDRESS BASED ON CRITERIA. A TEN DAY REFERRAL WINDOW WILL APPLY AND NOTE OF RECIEPT WILL BE PROVIDED BY EMAIL. IF NO REPLY IS RECEIVED THEN PROCEED WITH APPLICATION. NON-EAP APPLICANTS FOLLOW NORMAL REFERRAL PROTOCOLS. ALL PROPONENTS ARE TO REFER TO THE FIRESMART GUIDEBOOK FOR THE OIL AND GAS INDUSTRY, BEST MANAGEMENT PRACTICES FOR WILDFIRE PREVENTION AND FIRESMART FIELD GUIDE FOR WILDFIRE RISK AND MITIGATION STRATEGIES; LINK TO E-DOCUMENTS HTTP://WILDFIRE.ALBERTA.CA/FIRE-SMART-INDUSTRY/DEFAULT.ASPX FIRESMART CONSULATATIVE NOTATION COMMENTS: TYPES OF ACTIVITES AND DISPOSITIONS THAT REQUIRE REFERRAL; *RECREATION LEASE (REC) *DISPOSTION RESERVATION (DRS)-USE CRITERIA FOR MLL* ,SML AND LOC AS DEFINED BELOW *EASEMENT (EZE) *VEGETATION CONTROL EASEMENT (VCE) *LICENSE OF OCCUPATION (LOC)-HIGH GRADE ROAD OR ACCESS ROAD 20M+ WIDE *MINERAL SURFACE LEASE (MSL), *MISCELLANEOUS LEASE (MLL) *MISCELLANEOUS PERMIT (MLP) *PIPELINE AGREEMENT (PLA)-IF 20M+WIDE *PIPELINE INSTALLATION LEASE (PIL)- IF OVER 5 HECTARES *RURAL ELECTRIC ASSOCIATION EASEMENT (REA) *SURFACE MATERIAL LEASE (SML)- ONLY IF PEATMOSS *ALL AGRICULTURAL DISPOSITIONS REQUIRING FENCE LINE CLEARING/FIELD CLEARING AND DEBRIS DISPOSAL *REGIONAL GRAZING/TIMBER INTRGRATION PLANS . ALL APPLICATIONS MUST BE REFERRED VIA EMAIL TO THE "WILDFIRE PREVENTION OFFICER" AT THE CALGARY FORESTRY OFFICE: ESRD.EDS-CLGR-FIRESMART@GOV.AB.CA TYPES OF ACTIVITES AND DISPOSITIONS NOT REQUIRING REFERRAL *GEOPHYSICAL ACTIVITIES. *AGRICULTURAL DISPOSITIONS WHERE CLEARING IS NOT REQUIRED E.G. HAY PERMIT *HAP), FOREST GRAZING LICENSE (FGL) WITH NO FENCE LINES *TIMBER DISPOSITIONS

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)		
5999 RN			2009/02/24		
W5-04-008-13				(640.00)	(259.000)
W5-04-008-14-NE				(0.00)	(0.000)
W5-04-008-14-SE				(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
DLO 140170	Application	2014/09/09			0.00	0.000

1653488 ALBERTA INC.

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION:
 WITHIN 100M OF WATERBODY (Y/N): CLIENT FILE NO:
 PURPOSE: WATER INTAKE

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
30817 TL			2015/01/09

W5-04-008-13				(640.00)	(259.000)
W5-04-008-14-NE					
W5-04-008-14-SE					

EZE 830147	Active/Disposed	1984/01/13	2999/12/31		94.13	38.093
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ALTALINK MANAGEMENT LTD.

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N DIMENSION: 50 M(W)
 WITHIN 100M OF WATERBODY (Y/N): CLIENT FILE NO:
 PURPOSE: POWERLINE

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
2857 T	8510840		1983/09/12

W5-04-008-13-NW				(1.07)	(0.435)
W5-04-008-14-NE				(11.42)	(4.620)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area	
					Acres	Hectares
GRP 870052	Active/Disposed	1989/01/01	2017/12/31	GOLD CREEK GRAZING CO-OP LTD.	3,427.00	1,386.858
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
7919 SK			1990/06/01			
W5-04-008-14-01					(39.75)	(16.086)
W5-04-008-14-08					(39.75)	(16.086)
W5-04-008-14-09					(39.75)	(16.086)
W5-04-008-14-16					(39.75)	(16.086)

LOC 940867	Letter of Authority for Amendment	1999/12/17	2019/06/23	CANADIAN NATURAL RESOURCES LIMITED	5.54	2.243
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: ACCESS ROAD		
DIMENSION: 15 M		CLIENT FILE NO:1788				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
45069 MS			2000/02/04			
W5-04-008-14-SE					(4.84)	(1.960)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
MLL 1948	Active/Disposed	1962/09/16	2008/09/15		159.00	64.345

DEVON CANADA CORPORATION

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): N WITHIN 100M OF WATERBODY (Y/N): PURPOSE: OTHER INDUSTRIAL
 DIMENSION:

CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
74141 MS			2000/08/10

W5-04-008-14-02	(0.00)	(0.000)
W5-04-008-14-07	(0.00)	(0.000)
W5-04-008-14-10	(0.00)	(0.000)
W5-04-008-14-15	(0.00)	(0.000)

MSL 941235	Letter of Authority for Amendment	1999/12/17	2019/06/23		7.72	3.124
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CANADIAN NATURAL RESOURCES LIMITED

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): N PURPOSE: WELLSITE AND ACCESS ROAD
 DIMENSION: IRREGULAR ; 15 M CLIENT FILE NO:1788

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
45069 MS			2000/02/04

Reclamations

RECLAMATION CERTIFICATE NUMBER: SR0-00-169 ISSUE DATE: 2000/10/11 TYPE: Unknown
 RECLAMATION CERTIFICATE NUMBER: SR0-00-169 ISSUE DATE: 2000/10/11 TYPE: Unknown

W5-04-008-14-SE	(7.72)	(3.124)
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Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT090084	Active/Disposed	2011/10/20	2021/10/19	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0181 : MULTIPLE RESOURCE CONCERNS 5 : NO SURFACE SALE DISPOSITIONS 710 : SEE COMMENTS THIS LOCATION MAY FALL WITHIN AN AREA OF FOOTHILLS FESCUE GRASSLAND, A VERY VALUABLE NATIVE GRASSLAND TYPE THAT IS LIMITED IN REMAINING AREA. ROUGH FESCUE GRASSLANDS ARE VERY SENSITIVE TO SURFACE DISTURBANCE AND DIFFICULT AND COSTLY TO RECLAIM. PROPONENTS MUST CONSULT INFORMATION LETTER (IL) 2010-02, FESCUE GRASSLANDS -- PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE AND MAKE EARLY CONTACT WITH ALBERTA ENVIRONMENT & SUSTAINABLE RESOURCE DEVELOPMENT STAFF FOR THE AREA IN QUESTION. THE INFORMATION LETTER ADDRESSES OBLIGATIONS AND SPECIFIC DIRECTION REGARDING ALL POTENTIAL SURFACE DISTURBANCE RELATED ACTIVITY IN FOOTHILLS ROUGH FESCUE GRASSLAND PLANT COMMUNITIES. THIS DIRECTIVE SUPPLEMENTS THE ERCB'S IL 2002-01: PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE IN NATIVE PRAIRIE AND PARKLAND AREAS. IL 2010-02 MAY BE FOUND AT: HTTP://WWW.SRD.ALBERTA.CA/FORMSONLINESERVICES/INFORMATIONLETTERS/LANDSINFORMATIONLETTERS/DOCUMENTS/IL2010-02-FOOTHILLSFESCUEGRASSLANDPRINCIPLESFORMINIMIZINGSURFACEDISTURBANCE-MAR23-2010.PDF IL 2002-01 MAY BE FOUND AT: HTTP://WWW.ALBERTAPCF.ORG/RSU_DOCS/EUB_NATIVE_PRAIRIE.PDF	132,888.84	53,778.200

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
7837 RN			2011/09/09
7837 RN			2013/03/15
W5-04-008-13-NE			
W5-04-008-13-NW			
W5-04-008-14-NE			
W5-04-008-14-SE			

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT880619	Active/Disposed	1988/12/12	2999/12/31		159.00	64.345

PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT.
 OF SUSTAINABLE RESOURCE DEV
 0142 : STEEP ROLLING TOPOGRAPHY
 3 : NO AGRICULTURAL DISPOSITION
 110 : UNIMPROVED GRAZING

ACTIVITY DETAIL INFORMATION

NO PLANS

W5-04-008-14-01					(39.75)	(16.086)
W5-04-008-14-08					(39.75)	(16.086)
W5-04-008-14-09					(39.75)	(16.086)
W5-04-008-14-16					(39.75)	(16.086)

TFA 103995	Active/Disposed	2010/09/14	2011/09/14	ALTALINK MANAGEMENT LTD.		
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ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N):
 DIMENSION:
 WITHIN 100M OF WATERBODY (Y/N):
 CLIENT FILE NO:
 PURPOSE: TEMPORARY ACCESS

NO PLANS

W5-04-008-13-NE					(0.00)	(0.000)
W5-04-008-14-NE					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
TFA 134555	Active/Disposed	2013/07/15	2014/07/15	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: EDUCATIONAL/RESEARCH ACTIVITY		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-14-SE					(0.00)	(0.000)

TFA 153582	Active/Disposed	2015/06/01	2015/10/31	ALTALINK L.P.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: Waiver-Other Conditions		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-13-NW					(0.00)	(0.000)
W5-04-008-14-NE					(0.00)	(0.000)

TFA 155858	Active/Disposed	2015/10/20	2016/10/19	BENGA MINING LTD.		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: AER Access Temporary - Industrial		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-13-NE					(0.00)	(0.000)
W5-04-008-13-NW					(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Total Area	
					Acres	Hectares
W5-04-008-13-SW					(0.00)	(0.000)
W5-04-008-14-SE					(0.00)	(0.000)

TFA 162911 Active/Disposed 2016/05/10 2016/08/31
 BENGA MINING LTD.

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): PURPOSE: AER Access Temporary - Industrial
 DIMENSION: CLIENT FILE NO:

NO PLANS

W5-04-008-13-NE					(0.00)	(0.000)
W5-04-008-13-NW					(0.00)	(0.000)

Public Land Standing**Client List**

Activity	Client ID	Name / Address	Province	Country	Postal Code
CNT090027	8072051-001	CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISION OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM WILDFIRE MANAGEMENT BRANCH CALGARY WILDFIRE MANAGEMENT AREA 8660 BEARSPAW DAM RD NW CALGARY	Alberta	CANADA	T3L 1S4
DLO 140170	1009853-001	1653488 ALBERTA INC. PO BOX 927 BLAIRMORE	Alberta	CANADA	T0K 0E0
EZE 830147	8061279-002	ALTALINK MANAGEMENT LTD. 2611 3 AVE SE CALGARY	Alberta	CANADA	T2A 7W7
GRP 870052	8017779-001	GOLD CREEK GRAZING CO-OP LTD. PO BOX 265 FORT MACLEOD	Alberta	CANADA	T0L 0Z0
LOC 940867	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
MLL 1948	8062617-001	DEVON CANADA CORPORATION 400 3 AVE SW SUITE 2000 CALGARY	Alberta	CANADA	T2P 4H2
MSL 941235	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
PNT090084	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
PNT880619	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV			

Public Land Standing

		782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
TFA 103995	8061279-002	ALTALINK MANAGEMENT LTD. 2611 3 AVE SE CALGARY	Alberta	CANADA	T2A 7W7
TFA 134555	1008823-002	BENGA MINING LTD. 4300 B ST STE 307 ANCHORAGE	Alaska	UNITED STATES	99503-593
TFA 153582	8066568-001	ALTALINK L.P. 2611 3 AVE SE CALGARY	AB	CANADA	T2P 2G9
TFA 155858	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
TFA 162911	1008823-001	BENGA MINING LTD. PO BOX 660 12331 20 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0

Total Activities: 14

DISCLAIMER

THIS STANDING REPORT IS PROVIDED SUBJECT TO THE CONDITION THAT HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ALBERTA AND HER EMPLOYEES:

- (1) HEREBY DISCLAIM AND ARE RELEASED FROM ANY AND ALL RESPONSIBILITY FOR THE INFORMATION IN, AND ANY OMISSION OF THE INFORMATION FROM, THIS REPORT;
- (2) SHALL NOT BEAR ANY RESPONSIBILITY FOR ANY LOSS OR DAMAGE OF ANY KIND ARISING FROM OR IN RESPECT OF ANY ABSENCE OF INFORMATION OR ANY ERRORS OR OMISSIONS (WHETHER THE AFORESAID OCCASIONED BY NEGLIGENCE OR OTHERWISE) IN OR AFFECTING THIS REPORT OR THE INFORMATION THEREIN.

THIS REPORT DOES NOT SHOW CAVEATS, BUILDERS' LIENS, OR OTHER INSTRUMENTS, IF ANY, REGISTERED AT LAND TITLES OFFICE IN RESPECT OF ANY LANDS OR INTERESTS THEREIN. PERSONS ARE ADVISED TO ALSO EXAMINE RECORDS AT LAND TITLES OFFICE TO ASCERTAIN WHETHER OTHER INSTRUMENTS THAT MAY CONCERN THE LANDS OR INTERESTS THEREIN HAVE BEEN REGISTERED.

*** END OF REPORT ***



July 29, 2016

Keith Bott
Benga Mining Ltd
PO Box 660
Blairmore, Alberta
T0K 0E0

RE: Timber Disposition CTPC050124
Dated: 10 day of July, 2016

I have a Timber Disposition within the MSL applied for by Benga Mining within sections 1, 2, 11 & 12 of Township 9 Range 4 W5M. Benga Mining is to allow me access to the proposed MSL for the purpose of Timber Permit CTPC050124 and other future permits applied for within the MSL.

I have no objection to their proposed MSL providing the above requirement is met.

Sincerely,



Consent of Occupant - Form B

I/We, [redacted] in the Province of Alberta, IN CONSIDERATION of the sum of \$1.00 and other good and valuable consideration paid to me (us) by the mineral producer (Benga Mining Ltd), receipt of which is hereby acknowledged, and in consideration of the covenants and agreements hereinafter mentioned and on the part of Benga Mining Ltd. to be kept, observed and performed:

I/We, [redacted] DO HEREBY CONSENT to Benga Mining Ltd., its successors and assigns, its contractors, subcontractors, servants and agents the right, license, liberty, privilege and easement to enter upon, over, under and through all those portions of: L15, L14, L13-31-008-03 W5M (the lands described in the lease, license, permit) numbered GRL960066 dated the 19 day of June, 1996 (expired), and GRL36801 dated the 1st day of June, 1962, and made between Her Majesty the Queen in right of the Province as represented by the Regulatory body (Minister of Environment and Sustainable Resource Development or the Alberta Energy Regulator) as Lessor/Grantor and me (us) as Lessee/Grantee at any time and from time to time with vehicles and equipment for the purposes permitted by the Public Lands Administration Regulation and any regulations passed in substitution therefor.

Benga Mining Ltd. HEREBY COVENANTS AND AGREES to compensate me (us) for damage done to my (our) buildings, growing crops, fences and livestock on the said land by reason of the exercise of the rights hereby granted; and Benga Mining Ltd. HEREBY COVENANTS AND AGREES to pay us, in addition to the consideration and compensation hereinbefore mentioned the annual rent of \$ 1.00 dollars, such rent being payable annually in advance on the 1st day of January in each year or portion thereof that the rights hereby granted are exercised, the first of which payments to be made on the 1st day of January, 2017.

If my (our) right to occupy the said land terminates for any reason, this consent and covenants and agreements herein contained shall then and in that event cease and determine.

This consent is given under my (our) hand expressly for the purpose of satisfying the requirements of Section 12 of the Surface Rights Act or any other relevant or applicable legislation.

This consent shall be binding upon and shall enure to the benefit of my (our) heirs, executors, administrators and assigns.

IN WITNESS WHEREOF I/WE, have executed this consent at Fernie

British Columbia

in the Province of Alberta, this 10 day of August, 2016.

SIGNED AND DELIVERED

By [redacted]

In the presence of:

[redacted]

WITNESS

[redacted] OCCUPANT

OCCUPANT

This Consent is hereby acknowledged and accepted by Benga Minina Ltd.

<Original signed by>

Per

Consent of Occupant

We Gold Creek Grazing Co-operative of Fort Macleod in the province of Alberta. IN CONSIDERATION of the sum of \$1.00 and other good and valuable consideration paid to us by the mineral producer (Benga Mining Ltd.), receipt of which is hereby acknowledged, and in consideration of the covenants and agreements hereinafter mentioned and on the part of Benga Mining Ltd. to be kept, observed and performed;

We, Gold Creek Grazing Cooperative DO HEREBY CONSENT to Benga Mining Ltd., its successors and assigns, its contactors, subcontractors, servants and agents the right, license, liberty, privilege and easement to enter upon, over, under and through all those portions of:

Grazing Permit GRP870052

E 1/2 14-008-04 W5M; E 1/2 26-008-04 W5M

Grazing Permits PNT930299 and PNT940130

E 1/2 35-008-04 W5M; NW35-008-04 W5M; 1-009-04 W5M; E 1/2 2-009-04 W5M; SW2-009-04 W5M; SE11-009-04 W5M; SW12-009-04 W5M; W1/2 6-009-03 W5M; E1/2 14-008-04; N1/2 13-008-04; SW 13-008-04

And made between Her Majesty the Queen in right of the Province as represented by the Regulatory body (Minister of Environment and Sustainable Resource Development or the Alberta Energy Regulator) as Lessor/Grantor and me (us) as Lessee/Grantee at any time and from time to time with vehicles and equipment for the purpose permitted by the Public Lands Administration Regulation and any regulations passed in substitution therefor.

Benga Mining Ltd. HEREBY COVENANTS AND AGREES to compensate me (us) for damage done to my (our) buildings, growing crops, fences and livestock on the said land by reason of the exercise of the rights hereby granted; and Benga Mining Ltd HEREBY COVENANTS AND AGREES to pay (us), in addition to the consideration and compensation hereinbefore mentioned the annual rent of \$ 1.00 dollar, such rent being payable annually in advance on the 1st day of January in each year or portion thereof that the rights hereby granted are exercised, the first of which payments to be made on the 1st day of January, 2017.

If my (our) right to occupy the said land terminates for any reason, this consent and covenants and agreements herein contained shall then and in that event cease and determine.

This consent is given under my (our) hand expressly for the purpose of satisfying the requirements of Section 12 of the Surface Rights Act or any other relevant or applicable legislation.

This consent shall be binding upon and shall enure all the benefit of my (our) heirs, executors, administrators and assigns.

IN WITNESS WHEREOF I/WE, have executed this consent at Blainmore in the province of Alberta, this 9th day of August, 2016.

SIGNED AND DELIVERED By _____

In the presence of: <Original signed by>

<Original signed by>

Witness Signature
Becky Housenga

Occupant Signature
<Original signed by>

Occupant Signature

This Consent is hereby acknowledged and accepted by Benga Mining Ltd.
<Original signed by>

Per. _____

Stuart Mallyn

July 21, 2016

Sent via email: Keith.Bott@rivresources.com

Benga Mining Limited
PO Box 660
12331 20th Ave
Blairmore, AB T0K0E0

ATTENTION: KEITH BOTT

RE: Proposed Coal Mine in Proximity to AltaLink 1201 Transmission Line in 23-8-4-W5M, 24-8-4-W5M, and 21-8-4-W5M

AltaLink has been notified of the proposed coal mine at the above mentioned location, in proximity to AltaLink's 500 Kilovolt, 1201 transmission line.

AltaLink has no objections to the proposed facility in proximity to AltaLink's Right of Way/Easement provided that the following conditions are met:

- Benga Mining must apply for, receive, and approve facility crossing, encroachment, or proximity agreements from AltaLink for any access routes or new facilities which cross over, encroach within, or are within less than thirty metres from the edge of AltaLink's transmission line right of way
- Benga Mining is responsible for mitigating any hazards to AltaLink's transmission line which are created or exacerbated by the presence or operation of the mine or associated facilities; including, but not limited to, falling debris, clearance beneath and around the lines, and drainage
- AltaLink must be permitted to access its transmission lines to perform routine or emergency maintenance as needed; and, Benga Mining must coordinate with AltaLink to ensure that the line and its components may be accessed safely by AltaLink personell

If you have any questions or concerns, please do not hesitate to contact the undersigned.

Respectfully,

<Original signed by>

Drew Cunningham, C.E.T.
Transmission Lines Encroachment Technologist
Ph: 403-365-7424
Drew.Cunningham@Altalink.ca



Devon Canada Corporation
2000, 400 - 3rd Avenue S.W.
Calgary, Alberta T2P 4H2

403 232 7100 Phone
403 232 7678 Fax
www.devonenergy.com

Via Courier

July 15, 2016

Benga Mining Limited
P.O. Box 660
12331 – 20th Ave.
Blairmore, AB T0K 0E0

ATTENTION: Anthony Martin
Director

RE: Letter of non-Objection – Coleman Area

Further to our communications on the subject, Devon Canada, on behalf of itself and its affiliates, hereby confirms that it has reviewed the materials forwarded to Devon by Benga Mining Limited ("Benga") on June 20, 2016 and June 27, 2016 relating to Benga's application to the Canadian Environmental Assessment Agency and the Alberta Energy Regulator for a mine permit at its proposed Grassy Mountain site and Devon has no objections to the materials and information presented in such materials.

To the extent there are any material changes to the proposed mining operations and plans, kindly advise us so we may review the same.

If you require further information or wish to discuss, please feel free to contact the writer at 403-232-5014 or via email at Vince.Boden@dvn.com.

**Devon Canada, by its
Managing Partner,
Devon Canada Corporation**
<Original signed by>

Vince Boden
Sr. Supervisor, Surface Land and
Survey

APPENDIX 2 – LOC APPLICATION

Application for Surface Dispositions

<i>Please Print Or Type</i>	EFR attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					File Number:									
	If No, AOA # _____ or					Confirmation Number:									
	Other: _____					FNC Number: Not Issued									
<input type="checkbox"/> Mineral Surface Lease [MSL]		<input checked="" type="checkbox"/> Licence of Occupation [LOC]			<input type="checkbox"/> Pipeline Installation Lease [PIL]			<input type="checkbox"/> R.E.A. Easement [REA]							
<input type="checkbox"/> Pipeline Agreement [PLA]		Project Name: Grassy Coal					<input type="checkbox"/> Easement [EZE]								
Application:							Transmission Line								
<input type="checkbox"/> Class I [INDEX > 2690]							Length _____ km								
<input type="checkbox"/> Class II [INDEX < 2690]							Kilovolts _____								
Does this application include watercourse crossings regulated under the <i>Water Act</i> (Ministerial) Regulations' Code of Practice for Pipelines and Telecommunication Lines Watercourse Crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, the applicable <i>Water Act</i> Notice must be submitted with this application.															
Applicant: Benga Mining Limited					Client ID: 1008823002			Applicant File Number Grassy Mountain Coal Mine							
Address: PO Box 660, 12331 - 20 Avenue								Tel: 403-563-6160							
City/Province: Blairmore Alberta					Postal code: T0K 0E0			Fax:							
Contact person/Agent as above <input checked="" type="checkbox"/> or:								File:							
Address:								Tel:							
City/province:					Postal code:			Fax:							
Attached: <input checked="" type="checkbox"/> Sketch <input type="checkbox"/> Survey Plan <input type="checkbox"/> As Built					Occupant's consent: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Not Required										
Purpose of application: <input type="checkbox"/> Wellsite <input type="checkbox"/> Access <input type="checkbox"/> Pipeline <input type="checkbox"/> Powerline <input checked="" type="checkbox"/> Other Coal Mine															
Land being applied for [<i>Attach Schedule if insufficient space</i>]															
Name of Subdivision					Subdivision Plan			Block		Lot	Parcel				
Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	
See	Table	2-2													
Are you a Canadian citizen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have you attained the age of 18 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Are you an employee of the Government of Alberta or member of the Legislative Assembly? <input type="checkbox"/> Yes [<i>Dept/Agency/Board</i>] <input checked="" type="checkbox"/> No										
<Original signed by>					For Internal Use Only										
Signature _____					Authorization is hereby granted to enter upon and immediately occupy public land as described on this application and in accordance with the plan/sketch submitted to the issuing regulatory body subject to conditions specified in schedule "A":										
Steve Mallyon Print Name															
August 12, 2016 Date		\$ _____ Amount Enclosed								Date		Authorizer, <i>Public Lands Act</i>			
Approval from	Lands	Forest	F & W	Trans	Parks										
Referral Date														Dept. Plan:	
Received Date														Copies for:	
Comments:														Municipal Authority	
														Field Services	
															Forest
															F & W
														Other	

Proposed construction date: Q3 2017 to Q4 2018
dd/mm/yyyy

2. Specify associated developments/dispositions that may be required as a result of this disposition.

- Power line
- Pipeline
- Compressor
- Metering Station
- Access
- Other MSL for the mining area and MLL for the construction camp and conveyor/powerline/access road right of way (see Public Lands Act Application)

Land Standing Review

3. A complete Land Standing Review check must be made on the proposed area.

Date Land Standing search was completed: 10/08/2016
dd/mm/yyyy

Reservation/Activity Number	Action required/identify conflicts/contact name and or comments
See Public Lands Act Application Table 3-1.	

- a. Within a Provincial Grazing Reserve? Yes No
If 'Yes', complete the Provincial Grazing Reserve template and attach to the Environmental Field Report. (Refer to Appendix I in the instruction document.)
 - b. Within the Chungo Access Management Area? Yes No
If 'Yes', complete the Chungo Area template (located at the end of IL 2005-01 – Annex to Chungo Creek Industrial Access Management Area Information Letter and attach it to the Environmental Field Report.
 - c. Within a FireSmart Community Zone? Yes No
If 'Yes', contact Forest Protection Division for additional hazard reduction requirements.
 - d. Follow the "Bear Smart" program to reduce bear-human conflicts and increase public stewardship of black and grizzly bears in Alberta by providing strategies, information and education materials to its staff and contractors, see srd.alberta.ca and search for "Alberta BearSmart"
4. Are Permanent/Research Sample Plots/Rangeland Benchmarks located within 100 m of the boundary of the lands under application? Yes No

If 'Yes', indicate the legal land description and GPS coordinates for each plot/benchmark in relation to the disposition boundary (degree, decimal, minutes).

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

PSP's held by the Regulatory body appear as DRS or PNT reservations on the LSAS report. The forest industry also has sample plots, and if these are registered, they will appear as ISP's on the LSAS report. If the forest industry sample plots are not registered, they will not appear on the LSAS report. The proponent is responsible for determining if there are any PSP's or ISP's on the land under application. PSP's and ISP's must not be disturbed.

Stakeholders, Other Land Users

5. Is there potential impact on or conflict with stakeholders and other land users? Yes No

If "Yes" to either, please list and explain mitigation:

See Section 3.2.2 and 3.2.3 of the PLA Application for details.

6. What actions have been taken to integrate this disposition with other existing/planned activities and resources to minimize the impacts on the land base? (Check appropriate boxes.)

- Not applicable
- Use common corridor
- Parallel existing clearing/right of way
- Use existing clearing/right of way
- Other

Explain: Location of the rail loop was determined based on consultation with stakeholders (see section 3.2.4 of PLA Application).

7. Identify any aesthetic concerns related to the proposed activity (i.e., negative effects on the aesthetic/sensory aspects of the surrounding land including view, smell, noise, etc.).

- Not applicable
 From public access
 From residence
 From recreation facility
 Other Land Users

Explain: Visual impacts due to the rail load-out facility was raised as a concern by stakeholders. See Section 3.2.5 of the PLA Application for aesthetic concerns raised by stakeholders and Bengas response.

8. Are there any conflicts with Access Management Plans, Integrated Resource Plans or policy documents for the area? Yes No

If 'Yes', explain mitigation strategy: Land and resource use planning is discussed further in Section 3.2.6 of the PLA application.

9. Was First Nations (Aboriginal) consultation required by the Regulatory body? Yes No

If "Yes", with whom: See Section 3.2.7 of the PLA Application for a list of First Nations groups who were consulted.

C. Wildlife/Environmental Concerns

1. Within a Key/Critical Wildlife Zone? Yes No

If 'Yes', provide information on mitigation strategies that will be implemented: See Section 3.3.1 of the PLA Application.

2. Wildlife Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From See Section 3.3.2 of the PLA Application To _____ (See Provincial Timing Guidelines or FW referral maps.)

3. Fisheries Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From _____ To See Section 3.3.2 of the PLA Application (See Provincial Watercourse Codes of Practice for restricted periods.)

4. Within a Caribou Area? Yes No. If 'Yes', specify the Caribou Protection Plan number and name.

Species at Risk (Plant/Animals)

5. Is it likely that a species at risk (not including Woodland Caribou in number 4 above) will be found in the area of the proposed development? Yes No

If 'Yes', specify the status and protective strategy for each species: For further details on species at risk within the proposed activity, see Section 3.3.3 of the PLA Application.

<p>Species 1 _____</p> <p><input type="checkbox"/> Endangered <input type="checkbox"/> Threatened <input type="checkbox"/> Special Concern <input type="checkbox"/> At Risk <input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 2 _____</p> <p><input type="checkbox"/> Endangered <input type="checkbox"/> Threatened <input type="checkbox"/> Special Concern <input type="checkbox"/> At Risk <input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
--	--

<p>Species 3 _____</p> <p><input type="checkbox"/> Endangered <input type="checkbox"/> Threatened <input type="checkbox"/> Special Concern <input type="checkbox"/> At Risk <input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 4 _____</p> <p><input type="checkbox"/> Endangered <input type="checkbox"/> Threatened <input type="checkbox"/> Special Concern <input type="checkbox"/> At Risk <input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
--	--

Alberta Fish and Wildlife Division recommends predevelopment inventory be conducted on all native grasslands habitats within the Grassland Natural Region due to high concentration of Species at Risk and limited site specific information on occurrences.

6. Has a pre-development Species at Risk inventory been completed to alert the applicant of any wildlife concerns related to this project? Yes (copy of inventory attached) No

If 'No', explain: See Section 3.3.3 of the PLA Application

Has the activity been assessed to ensure it does not negatively affect any species at risk? Yes No

If 'No', explain: The project has been assessed to determine its effect on species at risk and mitigation measures have been suggested to reduce adverse effects. Additional details are presented in Section 3.3.3 of the PLA Application.

8. If Access Restrictions apply, include legal land description and explain mitigation measures.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Explain mitigation strategy: _____

9. If within or adjacent (within 100 m) to a *Protected Area*, indicate the type of protected area and explain what measures will be taken to avoid conflict with the protected area.

Natural Area Ecological Reserve Park Other Crown reservations as discussed in Section 3.2.1 of the PLA Application.

Name of protected area: _____

Explain mitigation strategy: _____

10. Are there any environmentally *sensitive areas* in the vicinity (within 100 m) of the proposed activity that will require special measures to protect? Yes No

If 'Yes', list and explain: See Section 3.3.1 of the PLA Application for additional details.

11. Is the proposed activity within a permafrost area? Yes No

If 'Yes', specify the Permafrost Protection Plan number and name: _____

D. Historical Resources

Date search completed A Historical Resource Impact Assessment was undertaken as part of the EIA. See Section 3.4 of the PLA Application.

dd/mm/yyyy

What is the Historical Resource Value (HRV) of the affected lands?

Not Listed 1 2 3 4 5

If HRV is 1-5, an 'Application for Historical Resources Act Clearance' must be submitted to the Cultural Facilities and Historical Resource Division (CFHRD) of Alberta Community Development.

Date submitted 05/08/2016

dd/mm/yyyy

Note: Activities on land that has an HRV or 4 or 5 may require a Historical Resources Impact Assessment (HRIA).

E. Vegetation and Timber Cover

Vegetation (check all that apply)

Native grassland

Treed wetland

Deciduous-dominant forest:

- | | | |
|---|--|--|
| <input type="checkbox"/> Tame pasture | <input type="checkbox"/> Shrubby wetland | <input type="checkbox"/> ("D" less than 30% coniferous trees) |
| <input type="checkbox"/> Cropland | <input type="checkbox"/> Grass or grass-like wetland | Coniferous-dominant forest: |
| <input checked="" type="checkbox"/> Sparsely or non-vegetated | <input type="checkbox"/> Native aspen parkland | <input checked="" type="checkbox"/> ("C" more than 70% coniferous trees) |
| <input type="checkbox"/> Cutblock – planted | <input type="checkbox"/> Other (specify) _____ | Mixedwood forest: |
| <input type="checkbox"/> Natural regeneration >2 m | | <input type="checkbox"/> ("CD" 70% to 50% coniferous trees) |
| | | <input type="checkbox"/> ("DC" 50% to 30% coniferous trees) |

Timber Salvage

1. Merchantable timber present? Yes No

Provide a volume inventory as follows:

Coniferous approx. volume 600 m³ or _____ number of loads

Spruce 37% Pine 27% Other 37 %

Deciduous approximate volume 50m³ or _____ number of loads

Aspen 100 % Other 0 %

2. Specify the timber disposition or FMA(s) shown on LSAS.

No disposition (Contact the Regulatory body)

Disposition number of FMA: No FMA, see Table 3-2 of PLA Application for lease and permit holders Section ,
holder name _____

3. Utilization standards:

Coniferous 15 cm stump diameter to a 11 cm top diameter.

Deciduous 15 cm stump diameter to a 11 cm top diameter.

4. Timber salvage waiver requested? Yes No

If 'Yes', provide justification: _____

5. Provide the name of the salvage purchaser See Section 3.5 of the PLA Application, or check one of the following:

Not known at this time

By TM88 (or equivalent)

By Timber permit

6. When will the salvage be removed/hailed from the site to a wood processing plant?

Proposed date start: 01/07/2017
dd/mm/yyyy

Proposed date complete: 01/12/2018
dd/mm/yyyy

Notes: The operator is responsible for moving the salvage to a site that is accessible to ensure all the wood can be removed. This may require forwarding the wood to a site with all-weather access.

A copy of the TM88 or equivalent must be submitted to the the Regulatory body to ensure proper tracking of ownership, transport and manufacturing can occur.

F. Soil and Vegetation Management

Soil salvage, storage, replacement, and handling procedures shall be in keeping with those outlined in *Section 6 “Site Disturbance, Clearing and Soil Management,”* of the *“Public Lands Operational Handbook”*.

Note: Projects on specific areas of public land may require a soil survey. The proponent is to identify such requirements during the planning process.

Are there soil sensitivities (i.e., shallow depth to water table; shallow depth to bedrock; soils are gravely or stony, etc.)? Yes No

Explain: See Section 3.6.1 of the PLA Application for details on soil sensitivities.

Surface expression (i.e., topography). See Section 3.6.1 of the PLA Application for details on project area topography.

Site drainage (i.e., drainage is very poor, poor, imperfect, moderately well, well, rapid, or very rapid)

See Section 3.6.1 of the PLA Application for details on site drainage.

Are there problem vegetation/weeds/invasive species on or near site at time of assessment?

Yes No **Explain** Problem vegetation/weeds/invasive species are discussed further in Section 3.6.2 of the PLA Application.

Identification of species, degree of infestation and approximate amount of area infested per species.

	Species 1	Species 2	Species 3
Trace (rare)		Refer to Section 3.6.2 of the PLA Application.	
Low (occasional)			
Moderate (scattered plants)			
High (fairly dense)			

Is there a risk of weed spread to the site if development proceeds?

High Moderate Low

If any risk, provide details in reclamation and construction sections of supplements.

If high or moderate, show location on the application plan.

G. Incidental Activities

The applicant is to identify and outline on the application plan any incidental activities required for temporary use.

Note: No additional approval is required for incidental activities that are applied for with the disposition and included in the plan.

If the incidental activity is *not approved* under the disposition, a separate approval is required. Incidental activities approved in this manner are for temporary use only and are *not* part of the surface disposition.

1. According to field assessment, will additional incidental clearings be required? Yes No

If 'Yes', indicate the purpose:

- Campsite Borrow Pit Salvage Deck
 Temporary Workspace Backslope Temporary Access
 Other Incidental activities are discussed further in Section 3.7 of the PLA Application

2. Are any additional clearings planned in reforested areas? Yes No

If 'Yes', explain _____

The Core Operating Conditions are standard practices that must be applied to all activities.

H. Core Operating Conditions

Prior to Entry - Confirmation Number

099 The holder shall contact and advise Regulatory body of its intentions:

- prior to entry upon the lands for a stated purpose,
- prior to any additional construction during the term of this authority,
- at the completion of operations or construction, and
- upon abandonment of this activity.

Upon contact prior to initial entry on the land, the Regulatory body shall issue a confirmation number that shall be maintained on file by the holder and be provided to the Regulatory body on request.

<Location & Telephone No.> _____

Adverse Ground Conditions

105 Any activity on the land during adverse ground conditions must be suspended if the activity is likely cause unacceptable damage to vegetation or soil, as may be determined by the holder or the Regulatory body.

Sample Plots

108 No entry is allowed within the boundaries of any research or sample plot.

Reclamation - Interim

127 The holder shall reclaim all disturbed land surfaces within two growing seasons. Interim reclamation, including site and debris clean-up, slope stabilization, recontouring with subsoil, and spreading of topsoil shall be done progressively and concurrently with operations.

Reclamation - Final

128 Final surface reclamation must meet the requirements for the specific activity in place at the time of abandonment.

Noxious Weeds

131 The holder shall cut, keep down and destroy all noxious weeds and restricted weeds as per the *Public Lands Act*.

Waste Material Disposal

135 The holder shall remove all garbage and waste material from this site to the satisfaction of the Regulatory body, in its sole discretion.

Watercourse/Water Body - No Material to be Deposited

148 The holder shall not deposit or push debris, soil or other deleterious materials into or through any watercourse or water body or on the ice of any watercourse/water body.

Erosion Prevention

158 The holder shall take all precautions and safeguards necessary to prevent soil and surface erosion to the satisfaction of the Regulatory body in its sole discretion.

Natural Drainage - No Interruption

161 The holder shall not create any interruptions to natural drainage, including ephemeral draws that may result in blockage of water flow.

If electricity is required at a facility, the **ROW** must be planned to ensure the power line is located on the downwind side. This is required to maximize the tree-free area adjacent to the power lines, thus reducing the potential of falling trees hitting the power line and possibly starting a wildfire, as well as, cutting off power to the facility.

Where a road, pipeline, and power line ROW are required, it is recommended the power line be located between the road and pipeline. This greatly reduces the clearing requirements and keeps the power line safe from falling trees.

B. Topography

1. Mark more than one box to show range:

- Level (0-2%)
- Gentle (3-10%)
- Moderate (11-15%)
- Steep (16-30%)
- Very steep (over 30%)

Explain: Topography within the proposed activity area is presented in Section 5.2 of the PLA Application.

C. Watercourse Crossings

Avoidance, Minimizing and Mitigation/Compensation, in that order, are considerations for watercourse crossings. See the instructions for additional explanation.

1. Will watercourse crossings be installed? Yes No. (If 'No', go to next section).
If 'Yes', number the watercourse crossings on the survey plan and complete the table below.

Note: All licences, authorizations and approvals issued by the Regulatory body under the *Public Lands Act, Forests Act, Environmental Protection and Enhancement Act and Water Act*, should not be taken to mean the proponent (applicant) has complied with federal legislation. Proponents should contact Fisheries and Oceans Canada in the location nearest to them (Peace River, Edmonton, Calgary, Lethbridge) in relation to the application of federal laws, including but not limited to the *Navigable Water Protection Act* and the *Fisheries Act (Canada)*.

Crossing Number	Crossing Method	Culvert/Bridge Size Diameter (mm) x length (m)	Water-course Size Class (1-4)	LSD	Sec	Twp	Rge	Mer	Specify if restricted activity period (dd/mm/yyyy)	Class of Waterbody from COP (A,B,C,D)
1	Initial B	clear span X unknown	3	10	03	008	04	5	From May 1	B
	Final B								To August 15	
	Initial	X							From	
	Final								To	
	Initial	X							From	
	Final								To	

2. Temporary watercourse crossings will be removed by _____
dd/mm/yyyy

Note: Temporary crossings must not be installed or existing ones removed during restricted activity periods unless clean flow can be maintained. Crossings installed during winter work should be removed prior to spring break up.

D. Construction Strategy

Plan attached (include all areas of existing clearing(s) and new clearing(s) to be used, and their dimensions)

1. **Vegetation removal:** Explain: See below.

2. **Brush disposal:** Explain: See below

3. **Topsoil handling/Topsoil stripping width:** (Check the appropriate boxes for initial and final access)

Minimal surface disturbance (no stripping)

Stripping **Single Lift** **Two Lift** **Other** See below

Explain if more than one box has been checked. See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 5.4 of the PLA Application. A plan with an air photo indicating areas of existing clearing and new clearings to be used is provided in the PLA Application as Figures 5-1 and 5-2.

E. Reclamation Strategy

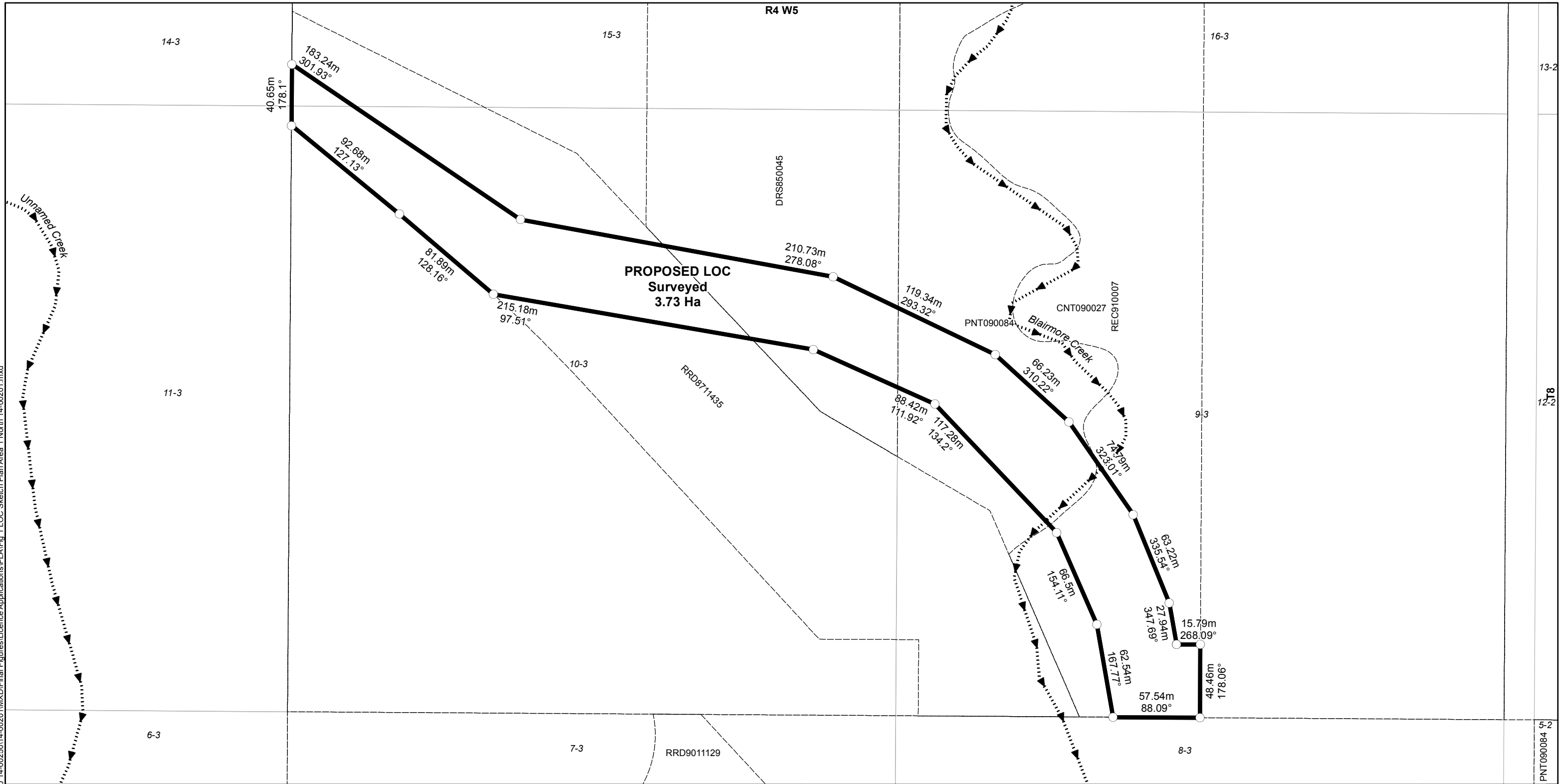
Revegetation strategy: (Check appropriate boxes)

Natural recovery **Native seed** **Non-native seed** **Other** See Section 5.5 of the PLA Application

Interim: The reclamation strategy for the rail loop is discussed in Section 5.5 of the PLA Application.

Production/Operation: The reclamation strategy for the rail loop is discussed in Section 5.5 of the PLA Application.

Document Path: K:\Active Projects\2014\AP_14-00201 to 14-00250\14-00201\MXD\Final Figures\Licence Applications\PLA\Fig 1 LOC Sketch Plan Area 1 North 14-00201.mxd



- LEGEND**
- Deflection Point
 -▶ Creek (Flow Direction)
 - ▬ Proposed LOC Boundary
 - - - Disposition

<p>PROJECT</p> <p>GRASSY MOUNTAIN COAL PROJECT</p>	<p>PROJECT: 14-00201</p> <p>DRAWN BY: JL</p> <p>CHECKED BY: KY</p> <p>DATE: JUNE 27, 2016</p>
<p>TITLE</p> <p>PROPOSED LICENSE OF OCCUPATION (LOC) SKETCH PLAN</p> <p>09/10/15-03-008-04 W5</p>	<p>FIGURE</p> <p style="font-size: 24pt;">1 of 2</p>
<p>NOTES</p> <p>AltaLIS, 2015; MEMS, 2015</p> <p>Datum/Projection: UTM 3TM Nad 83</p>	<div style="text-align: center;"> <p>1:2,500</p> <p>0 25 50 100 Metres</p> </div>

Disclaimer: This figure was derived from multiple data sources and while we make every effort to assure its' accuracy, Millennium EMS Solutions Ltd. disclaims any representation or warranty and assumes no liability either for any errors, omission or inaccuracies that may occur.

Public Land Standing

Selection Criteria

Selected Sections

Geo-Administrative Area:	Y
Requested Lands:	Y
Title Information:	N
Activity Details:	Y
Subdivisions:	NA
Client List:	Y

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-04-008-02-SW
W5-04-008-03-NE

Public Land Standing

Requested Land

Requested Land	Ownership Status	Administered By	Titled Status	Survey Status	Area in Hectares		Area in Acres		Water
					Land	Title	Land	Title	
W5-04-008-02-SW	Mixed	FLW-MLT	Titled	Surveyed	46.960	46.519	116.04	114.95	Partly Covered
<i>Remarks: SUB 24.46 PL 8711401 (4716GEN) BLK 2 FLW 1.09 BALANCE 328IRR (IRR513) RIVER DIVERSION FRHOLD 114.95 BALANCE INCL RDS & RIVER SUB 19.50 PL 8810387 (4725GEN)</i>									
W5-04-008-03-NE	Mixed	FLW-MLT	Titled	Surveyed	40.448	25.819	99.95	63.80	No Water Coverage
<i>Remarks: SUB 36.66 PL 8711438 (4718GEN) BLK 1 SUB 23.39 PL 8711437 (4703GEN) FLW 36.15 BALANCE N&E/RD FRHOLD 63.80 BALANCE INCL RDS</i>									
TOTAL					87.408	72.338	215.99	178.75	

Geo Administrative Areas

ALBERTA ENERGY REGULATOR	SOUTH REGION	Code: AER-S
W5-04-008		
COAL DEVELOPMENT REGION	SETTLED	Code: CDR-1
W5-04-008-02		
W5-04-008-03		
ENVIRONMENT CORPORATE REGION	SOUTHERN	Code: ENV-1
W5-04-008		
ENVIRONMENT CONS. & RECL. DISTRICT	NO. 20	Code: ERD-020
W5-04-008		
EASTERN SLOPE ZONE		Code: ESZ
W5-04-008		
FOREST MANAGEMENT UNIT	SOUTHWEST	CO1 SOUTHERN ROCKIES
W5-04-008-02-SW		
W5-04-008-03		
FOREST MANAGEMENT UNIT	SOUTHWEST	CO2 SOUTHERN ROCKIES
		Code: FMU-C-52

Public Land Standing

FOREST MANAGEMENT UNIT W5-04-008-02 W5-04-008-03-NE	SOUTHWEST	CO2 SOUTHERN ROCKIES	Code: FMU-C-52
FISH & WILDLIFE ADMIN REGION W5-04-008	SOUTHERN REGION	BLAIRMORE	Code: FWA-1-02
FISH AND WILDLIFE DISTRICT W5-04-008	SOUTHERN REGION	BLAIRMORE	Code: FWD-1-09
FISH & WILDLIFE REFERRAL LANDS W5-04-008-02 W5-04-008-03			Code: FWR
GENERAL LANDS CLASSIFICATION W5-04-008-02 W5-04-008-03	WHITE		Code: GLC-W
GRAZING ZONE W5-04-008	A2		Code: GRZ-A2
INTEGRATED RESOURCE PLAN W5-04-008-02 W5-04-008-03	CROWSNEST CORRIDOR		Code: IRP-C4
LAND USE AREA W5-04-008	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
OPERATIONAL APPROVAL DISTRICTS W5-04-008	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
RANGELAND DISTRICT W5-04-008-02 W5-04-008-03	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
REGIONAL PLANNING COMMISSIONS W5-04-008	OLDMAN RIVER		Code: RPC-02
URBAN MUNICIPALITY W5-04-008-02-SW	TOWN	BLAIRMORE	Code: UBM-T-009
URBAN MUNICIPALITY	TOWN	MUNICIPALITY OF CROWSNEST PASS	Code: UBM-T-113

Public Land Standing

URBAN MUNICIPALITY

TOWN

MUNICIPALITY OF CROWNEST
PASS

Code: UBM-T-113

W5-04-008-02

W5-04-008-03

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
CNT090027	Active/Disposed	2009/03/10	2034/03/31		175,167.31	70,887.690

CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISON OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM
 0510 : BUFFER
 1 : NO RESTRICTON
 710 : SEE COMMENTS

Agency CommentsFOR EAP APPLICATIONS, SEND EMAIL TO BELOW ADDRESS BASED ON CRITERIA. A TEN DAY REFERRAL WINDOW WILL APPLY AND NOTE OF RECIEPT WILL BE PROVIDED BY EMAIL. IF NO REPLY IS RECEIVED THEN PROCEED WITH APPLICATION. NON-EAP APPLICANTS FOLLOW NORMAL REFERRAL PROTOCOLS. ALL PROPONENTS ARE TO REFER TO THE FIRESMART GUIDEBOOK FOR THE OIL AND GAS INDUSTRY, BEST MANAGEMENT PRACTICES FOR WILDFIRE PREVENTION AND FIRESMART FIELD GUIDE FOR WILDFIRE RISK AND MITIGATION STRATEGIES; LINK TO E-DOCUMENTS HTTP://WILDFIRE.ALBERTA.CA/FIRE-SMART-INDUSTRY/DEFAULT.ASPX FIRESMART CONSULATATIVE NOTATION COMMENTS: TYPES OF ACTIVITES AND DISPOSITIONS THAT REQUIRE REFERRAL; *RECREATION LEASE (REC) *DISPOSTION RESERVATION (DRS)-USE CRITERIA FOR MLL* ,SML AND LOC AS DEFINED BELOW *EASEMENT (EZE) *VEGETATION CONTROL EASEMENT (VCE) *LICENSE OF OCCUPATION (LOC)-HIGH GRADE ROAD OR ACCESS ROAD 20M+ WIDE *MINERAL SURFACE LEASE (MSL), *MISCELLANEOUS LEASE (MLL) *MISCELLANEOUS PERMIT (MLP) *PIPELINE AGREEMENT (PLA)-IF 20M+WIDE *PIPELINE INSTALLATION LEASE (PIL)- IF OVER 5 HECTARES *RURAL ELECTRIC ASSOCIATION EASEMENT (REA) *SURFACE MATERIAL LEASE (SML)- ONLY IF PEATMOSS *ALL AGRICULTURAL DISPOSITIONS REQUIRING FENCE LINE CLEARING/FIELD CLEARING AND DEBRIS DISPOSAL *REGIONAL GRAZING/TIMBER INTRGRATION PLANS . ALL APPLICATIONS MUST BE REFERRED VIA EMAIL TO THE "WILDFIRE PREVENTION OFFICER" AT THE CALGARY FORESTRY OFFICE: ESRD.EDS-CLGR-FIRESMART@GOV.AB.CA TYPES OF ACTIVITES AND DISPOSITIONS NOT REQUIRING REFERRAL *GEOPHYSICAL ACTIVITIES. *AGRICULTURAL DISPOSITIONS WHERE CLEARING IS NOT REQUIRED E.G. HAY PERMIT *HAP), FOREST GRAZING LICENSE (FGL) WITH NO FENCE LINES *TIMBER DISPOSITIONS

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)		
5999 RN			2009/02/24		
W5-04-008-02-SW				(0.00)	(0.000)
W5-04-008-03-NE				(0.00)	(0.000)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
DRS850045	Active/Disposed	1985/08/08	2015/08/07	BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 0553 : RANGER STATION 710 : SEE COMMENTS BLAIRMORE RANGER STATION.	23.29	9.425

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
123263 MS			1990/08/24

W5-04-008-03-NE WHICH LIES TO THE EAST OF REGISTERED PLAN 8711437 (4703 GEN) TO THE WEST OF REGISTERED PLAN 8711438 (4718 GEN) AND TO THE NORTH OF HIGHWAY # 3. (23.29) (9.425)

DRS890056	Active/Disposed	1989/05/17	2019/05/16	ENVIRONMENT AND WATER, DEPARTMENT OF 0460 : FISHERIES HABITAT PROTECTION AREA	0.00	0.000
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ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
113821 MS			1989/04/26

W5-04-008-02-SW BED & SHORE OF THE CROWSNEST RIVER (0.00) (0.000)

EZE 950044	Active/Disposed	1995/05/31	2999/12/31	CROWSNEST PASS GOLF & COUNTRY CLUB	0.05	0.021
------------	-----------------	------------	------------	------------------------------------	------	-------

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): WITHIN 100M OF WATERBODY (Y/N): Y PURPOSE: WATER INTAKE
DIMENSION: IRREGULAR CLIENT FILE NO:

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
14396 TL			1995/04/04

W5-04-008-03-NE INCLUDES BED & SHORE OF BLAIRMORE CREEK. (0.05) (0.021)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PLA 000472	Letter of Authority	2000/02/16	2999/12/31	ATCO GAS AND PIPELINES LTD. (SOUTH)	0.69	0.279
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N): N		PURPOSE: PIPELINE		
DIMENSION: 6 M		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
34006 P			2000/03/24			
W5-04-008-02-SW					(0.69)	(0.279)

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
PNT090084	Active/Disposed	2011/10/20	2021/10/19		132,888.84	53,778.200

PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV
 0181 : MULTIPLE RESOURCE CONCERNS
 5 : NO SURFACE SALE DISPOSITIONS
 710 : SEE COMMENTS

THIS LOCATION MAY FALL WITHIN AN AREA OF FOOTHILLS FESCUE GRASSLAND, A VERY VALUABLE NATIVE GRASSLAND TYPE THAT IS LIMITED IN REMAINING AREA. ROUGH FESCUE GRASSLANDS ARE VERY SENSITIVE TO SURFACE DISTURBANCE AND DIFFICULT AND COSTLY TO RECLAIM. PROPONENTS MUST CONSULT INFORMATION LETTER (IL) 2010-02, FESCUE GRASSLANDS -- PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE AND MAKE EARLY CONTACT WITH ALBERTA ENVIRONMENT & SUSTAINABLE RESOURCE DEVELOPMENT STAFF FOR THE AREA IN QUESTION. THE INFORMATION LETTER ADDRESSES OBLIGATIONS AND SPECIFIC DIRECTION REGARDING ALL POTENTIAL SURFACE DISTURBANCE RELATED ACTIVITY IN FOOTHILLS ROUGH FESCUE GRASSLAND PLANT COMMUNITIES. THIS DIRECTIVE SUPPLEMENTS THE ERCB'S IL 2002-01: PRINCIPLES FOR MINIMIZING SURFACE DISTURBANCE IN NATIVE PRAIRIE AND PARKLAND AREAS. IL 2010-02 MAY BE FOUND AT:
[HTTP://WWW.SRD.ALBERTA.CA/FORMSONLINESERVICES/INFORMATIONLETTERS/LANDSINFORMATIONLETTERS/DOCUMENTS/IL2010-02-FOOTHILLSFESCUEGRASSLANDPRINCIPLESFORMINIMIZINGSURFACEDISTURBANCE-MAR23-2010.PDF](http://www.srd.alberta.ca/formsonlineservices/informationletters/landsinformationletters/documents/il2010-02-foothillsfescuegrasslandprinciplesforminimizingsurfacedisturbance-mar23-2010.pdf) IL 2002-01 MAY BE FOUND AT:
[HTTP://WWW.ALBERTAPCF.ORG/RSU_DOCS/EUB_NATIVE_PRAIRIE.PDF](http://www.albertapcf.org/rsu_docs/eub_native_prairie.pdf)

ACTIVITY DETAIL INFORMATION

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
7837 RN			2011/09/09
7837 RN			2013/03/15
W5-04-008-02-SW			
W5-04-008-03-NE			

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
RRD8711435	Active/Disposed	1987/11/06	2999/12/31	TRANSPORTATION HWY #3 HWY #3	16.00	6.476
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE:		
DIMENSION:		CLIENT FILE NO:				
PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)			
8679 RD	8711435		2002/03/01			
W5-04-008-03-NE					(16.00)	(6.476)

TFA 103358	Active/Disposed	2010/07/14	2011/07/14	MUNICIPALITY OF THE CROWSNEST PASS		
ACTIVITY DETAIL INFORMATION						
OPTION TO PURCHASE (Y/N):		WITHIN 100M OF WATERBODY (Y/N):		PURPOSE: NON-COMMERCIAL RECREATIONAL DEVELOPMENT		
DIMENSION:		CLIENT FILE NO:				
NO PLANS						
W5-04-008-02-SW					(0.00)	(0.000)

Public Land Standing**Client List**

Activity	Client ID	Name / Address	Province	Country	Postal Code
CNT090027	8072051-001	CALGARY OFFICE - FORESTRY AND EMERGENCY RESPONSE DIVISION OF ENVIRONMENT AND SUSTAINABLE RESOURCE DEVELOPM WILDFIRE MANAGEMENT BRANCH CALGARY WILDFIRE MANAGEMENT AREA 8660 BEARSPAW DAM RD NW CALGARY	Alberta	CANADA	T3L 1S4
DRS850045	8059629-001	BLAIRMORE OFFICE - LAND USE AREA - LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV PO BOX 540 BLAIRMORE	Alberta	CANADA	T0K 0E0
DRS890056	8000026-009	ENVIRONMENT AND WATER, DEPARTMENT OF REGIONAL SERVICES 200 5 AVE S FLOOR 2 LETHBRIDGE	Alberta	CANADA	T1J 4L1
EZE 950044	8026700-001	CROWSNEST PASS GOLF & COUNTRY CLUB PO BOX 332 10701 24 AVE BLAIRMORE	Alberta	CANADA	T0K 0E0
PLA 000472	0000233-003	ATCO GAS AND PIPELINES LTD. (SOUTH) 410 STAFFORD DR N LETHBRIDGE	Alberta	CANADA	T1H 2A8
PNT090084	8078165-001	PINCHER CREEK OFFICE - RANGELAND DISTRICT-LANDS DIVISION DEPT. OF SUSTAINABLE RESOURCE DEV 782 MAIN ST ROOM 242 PO BOX 1420 PINCHER CREEK	Alberta	CANADA	T0K 1W0
RRD8711435	8061118-006	TRANSPORTATION ALBERTA TRANSPORTATION - LETHBRIDGE 3RD FLOOR ADMIN BUILDING 909 3 AVE N LETHBRIDGE	Alberta	CANADA	T1H 0H5
TFA 103358		MUNICIPALITY OF THE CROWSNEST PASS			

Public Land Standing

P.O. Box 6000
Crownsnest Pass

Alberta

Canada

T0K0E0

Total Activities: 8

DISCLAIMER

THIS STANDING REPORT IS PROVIDED SUBJECT TO THE CONDITION THAT HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ALBERTA AND HER EMPLOYEES:

- (1) HEREBY DISCLAIM AND ARE RELEASED FROM ANY AND ALL RESPONSIBILITY FOR THE INFORMATION IN, AND ANY OMISSION OF THE INFORMATION FROM, THIS REPORT;
- (2) SHALL NOT BEAR ANY RESPONSIBILITY FOR ANY LOSS OR DAMAGE OF ANY KIND ARISING FROM OR IN RESPECT OF ANY ABSENCE OF INFORMATION OR ANY ERRORS OR OMISSIONS (WHETHER THE AFORESAID OCCASIONED BY NEGLIGENCE OR OTHERWISE) IN OR AFFECTING THIS REPORT OR THE INFORMATION THEREIN.

THIS REPORT DOES NOT SHOW CAVEATS, BUILDERS' LIENS, OR OTHER INSTRUMENTS, IF ANY, REGISTERED AT LAND TITLES OFFICE IN RESPECT OF ANY LANDS OR INTERESTS THEREIN. PERSONS ARE ADVISED TO ALSO EXAMINE RECORDS AT LAND TITLES OFFICE TO ASCERTAIN WHETHER OTHER INSTRUMENTS THAT MAY CONCERN THE LANDS OR INTERESTS THEREIN HAVE BEEN REGISTERED.

*** END OF REPORT ***



June 22, 2016

Keith Bott
Riversdale Resources
PO Box 660
12331 20th Ave
Blairmore, AB T0K 0E0

RE: LOC FOR RAIL LOOP NEAR BLAIRMORE, AB (SECTION 2/3, TOWNSHIP 8, RANGE 4, W5M)

ATCO Gas has facilities within the proposed LOC, under Pipeline Agreement Application (PLA) number 000472. A majority of the gas main within the proposed LOC has been abandoned.

If any portion of the gas main remains in the proposed LOC, ATCO Gas requires the remaining portion of the gas main to be abandoned. This abandonment is done at the developer's expense prior to any surface construction within the proposed LOC. Please contact the Lethbridge Engineering Department at (403) 380-5400 to arrange for a gas main abandonment.

Please contact Alberta One-Call Corporation at 1-800-242-3447 prior to any surface construction.

ATCO Gas has no objection to this proposal providing the above requirements are met.

If you require further information, please contact the undersigned at (403) 380-5426.

Sincerely,

ATCO Gas
<Original signed by>

Michael Leung
Distribution Design EIT, Lethbridge Region Operations
Email: michael.leung@atco.com
Phone: (403) 380-5426

APPENDIX 3 – MLL APPLICATION

Application for Surface Dispositions

<i>Please Print Or Type</i>	EFR attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					File Number:								
	If No, AOA # _____ or					Confirmation Number:								
	Other: _____					FNC Number: Not Issued								
<input type="checkbox"/> Mineral Surface Lease [MSL]		<input type="checkbox"/> Licence of Occupation [LOC]		<input type="checkbox"/> Pipeline Installation Lease [PIL]		<input type="checkbox"/> R.E.A. Easement [REA]								
<input type="checkbox"/> Pipeline Agreement [PLA]		Project Name: Grassy Coal					<input type="checkbox"/> Easement [EZE]							
Application:							Transmission Line							
<input type="checkbox"/> Class I [INDEX > 2690]							Length _____ km							
<input type="checkbox"/> Class II [INDEX < 2690]							Kilovolts							
Does this application include watercourse crossings regulated under the <i>Water Act</i> (Ministerial) Regulations' Code of Practice for Pipelines and Telecommunication Lines Watercourse Crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, the applicable <i>Water Act</i> Notice must be submitted with this application.														
Applicant: Benga Mining Limited					Client ID: 1008823002			Applicant File Number Grassy Mountain Coal Mine						
Address: PO Box 660, 12331 - 20 Avenue							Tel: 403-563-6160							
City/Province: Blairmore Alberta					Postal code: T0K 0E0			Fax:						
Contact person/Agent as above <input checked="" type="checkbox"/> or:							File:							
Address:							Tel:							
City/province:					Postal code:			Fax:						
Attached: <input checked="" type="checkbox"/> Sketch		<input type="checkbox"/> Survey Plan		<input type="checkbox"/> As Built		Occupant's consent: <input type="checkbox"/> Attached		<input checked="" type="checkbox"/> Not Required						
Purpose of application: <input type="checkbox"/> Wellsite		<input type="checkbox"/> Access		<input type="checkbox"/> Pipeline		<input type="checkbox"/> Powerline		<input checked="" type="checkbox"/> Other Coal Mine						
Land being applied for [<i>Attach Schedule if insufficient space</i>]														
Name of Subdivision					Subdivision Plan			Block		Lot		Parcel		
Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer
See	Table	2-2												
Are you a Canadian citizen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have you attained the age of 18 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Are you an employee of the Government of Alberta or member of the Legislative Assembly? <input type="checkbox"/> Yes [<i>Dept/Agency/Board</i>] <input checked="" type="checkbox"/> No									
Signature _____ Steve Mallyon Print Name August 12, 2016 Date					\$ _____ Amount Enclosed		For Internal Use Only Authorization is hereby granted to enter upon and immediately occupy public land as described on this application and in accordance with the plan/sketch submitted to the issuing regulatory body subject to conditions specified in schedule "A": _____ Date Authorizer, <i>Public Lands Act</i>							
Approval from	Lands	Forest	F & W	Trans	Parks									Dept. Plan:
Referral Date														Copies for:
Received Date														Municipal Authority
Comments:											Field Services			
											Forest			
											F & W			
											Other			

Proposed construction date: Q3 2017 to Q4 2018
dd/mm/yyyy

2. Specify associated developments/dispositions that may be required as a result of this disposition.

- Power line
- Pipeline
- Compressor
- Metering Station
- Access
- Other LOC for the rail line/load-out and MSL for the mining area (see Public Lands Act Application)

Land Standing Review

3. A complete Land Standing Review check must be made on the proposed area.

Date Land Standing search was completed: 10/08/2016
dd/mm/yyyy

Reservation/Activity Number	Action required/identify conflicts/contact name and or comments
See Public Lands Act Application Table 3-1.	

a. Within a Provincial Grazing Reserve? Yes No

If 'Yes', complete the Provincial Grazing Reserve template and attach to the Environmental Field Report. (Refer to Appendix I in the instruction document.)

b. Within the Chungo Access Management Area? Yes No

If 'Yes', complete the Chungo Area template (located at the end of IL 2005-01 – Annex to Chungo Creek Industrial Access Management Area Information Letter and attach it to the Environmental Field Report.

c. Within a FireSmart Community Zone? Yes No

If 'Yes', contact Forest Protection Division for additional hazard reduction requirements.

d. Follow the "Bear Smart" program to reduce bear-human conflicts and increase public stewardship of black and grizzly bears in Alberta by providing strategies, information and education materials to its staff and contractors, see srd.alberta.ca and search for "Alberta BearSmart"

4. Are Permanent/Research Sample Plots/Rangeland Benchmarks located within 100 m of the boundary of the lands under application? Yes No

If 'Yes', indicate the legal land description and GPS coordinates for each plot/benchmark in relation to the disposition boundary (degree, decimal, minutes).

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

PSP's held by the Regulatory body appear as DRS or PNT reservations on the LSAS report. The forest industry also has sample plots, and if these are registered, they will appear as ISP's on the LSAS report. If the forest industry sample plots are not registered, they will not appear on the LSAS report. The proponent is responsible for determining if there are any PSP's or ISP's on the land under application. PSP's and ISP's must not be disturbed.

Stakeholders, Other Land Users

5. Is there potential impact on or conflict with stakeholders and other land users? Yes No

If "Yes" to either, please list and explain mitigation:

See Section 3.2.2 and 3.2.3 of the PLA Application for details.

6. What actions have been taken to integrate this disposition with other existing/planned activities and resources to minimize the impacts on the land base? (Check appropriate boxes.)

- Not applicable
- Use common corridor
- Parallel existing clearing/right of way
- Use existing clearing/right of way
- Other

Explain: A majority of the MLL is located on an existing clearing.

7. Identify any aesthetic concerns related to the proposed activity (i.e., negative effects on the aesthetic/sensory aspects of the surrounding land including view, smell, noise, etc.).

- Not applicable
- From public access
- From residence
- From recreation facility
- Other _____

Explain: _____

8. Are there any conflicts with Access Management Plans, Integrated Resource Plans or policy documents for the area? Yes No

If 'Yes', explain mitigation strategy: Land and resource use planning is discussed further in Section 3.2.6 of the PLA application.

9. Was First Nations (Aboriginal) consultation required by the Regulatory body? Yes No

If "Yes", with whom: See Section 3.2.7 of the PLA Application for a list of First Nations groups who were consulted.

C. Wildlife/Environmental Concerns

1. Within a Key/Critical Wildlife Zone? Yes No

If 'Yes', provide information on mitigation strategies that will be implemented: See Section 3.3.1 of the PLA Application.

2. Wildlife Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From See Section 3.3.2 of the PLA Application To _____ (See Provincial Timing Guidelines or FW referral maps.)

3. Fisheries Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From _____ To See Section 3.3.2 of the PLA Application (See Provincial Watercourse Codes of Practice for restricted periods.)

4. Within a Caribou Area? Yes No. If 'Yes', specify the Caribou Protection Plan number and name.

Species at Risk (Plant/Animals)

5. Is it likely that a species at risk (not including Woodland Caribou in number 4 above) will be found in the area of the proposed development? Yes No

If 'Yes', specify the status and protective strategy for each species: For further details on species at risk within the proposed activity, see Section 3.3.3 of the PLA Application.

<p>Species 1 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 2 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
--	--

<p>Species 3 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 4 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
--	--

Alberta Fish and Wildlife Division recommends predevelopment inventory be conducted on all native grasslands habitats within the Grassland Natural Region due to high concentration of Species at Risk and limited site specific information on occurrences.

6. Has a pre-development Species at Risk inventory been completed to alert the applicant of any wildlife concerns related to this project? Yes (copy of inventory attached) No

If 'No', explain: See Section 3.3.3 of the PLA Application

Has the activity been assessed to ensure it does not negatively affect any species at risk? Yes No

If 'No', explain: The project has been assessed to determine its effect on species at risk and mitigation measures have been suggested to reduce adverse effects. Additional details are presented in Section 3.3.3 of the PLA Application.

8. If Access Restrictions apply, include legal land description and explain mitigation measures.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Explain mitigation strategy: _____

9. If within or adjacent (within 100 m) to a *Protected Area*, indicate the type of protected area and explain what measures will be taken to avoid conflict with the protected area.

Natural Area Ecological Reserve Park Other Crown reservations as discussed in Section 3.2.1 of the PLA Application.

Name of protected area: _____

Explain mitigation strategy: _____

10. Are there any environmentally *sensitive areas* in the vicinity (within 100 m) of the proposed activity that will require special measures to protect? Yes No

If 'Yes', list and explain: See Section 3.3.1 of the PLA Application for additional details.

11. Is the proposed activity within a permafrost area? Yes No

If 'Yes', specify the Permafrost Protection Plan number and name: _____

D. Historical Resources

Date search completed A Historical Resource Impact Assessment was undertaken as part of the EIA. See Section 3.4 of the PLA Application.

dd/mm/yyyy

What is the Historical Resource Value (HRV) of the affected lands?

Not Listed 1 2 3 4 5

If HRV is 1-5, an 'Application for Historical Resources Act Clearance' must be submitted to the Cultural Facilities and Historical Resource Division (CFHRD) of Alberta Community Development.

Date submitted 05/08/2016

dd/mm/yyyy

Note: Activities on land that has an HRV or 4 or 5 may require a Historical Resources Impact Assessment (HRIA).

E. Vegetation and Timber Cover

Vegetation (check all that apply)

<input type="checkbox"/> Native grassland	<input checked="" type="checkbox"/> Treed wetland	Deciduous-dominant forest:
<input type="checkbox"/> Tame pasture	<input type="checkbox"/> Shrubby wetland	<input checked="" type="checkbox"/> ("D" less than 30% coniferous trees)
<input type="checkbox"/> Cropland	<input type="checkbox"/> Grass or grass-like wetland	Coniferous-dominant forest:
<input type="checkbox"/> Sparsely or non-vegetated	<input type="checkbox"/> Native aspen parkland	<input checked="" type="checkbox"/> ("C" more than 70% coniferous trees)
<input checked="" type="checkbox"/> Cutblock – planted	<input checked="" type="checkbox"/> Other (specify) <u>Grass Meadow.</u>	Mixedwood forest:

Natural regeneration >2 m

("CD" 70% to 50% coniferous trees)

("DC" 50% to 30% coniferous trees)

Timber Salvage

1. Merchantable timber present? Yes No

Provide a volume inventory as follows:

Coniferous approx. volume m³ or <1 number of loads

Spruce 10% Pine 87% Other 3 %

Deciduous approximate volume m³ or <1 number of loads

Aspen 100 % Other 0 %

2. Specify the timber disposition or FMA(s) shown on LSAS.

No disposition (Contact the Regulatory body)

Disposition number of FMA: No FMA, see Table 3-2 of PLA Application for lease and permit holders Section ,
holder name _____

3. Utilization standards:

Coniferous 15 cm stump diameter to a 11 cm top diameter.

Deciduous 15 cm stump diameter to a 11 cm top diameter.

4. Timber salvage waiver requested? Yes No

If 'Yes', provide justification: _____

5. Provide the name of the salvage purchaser See Section 3.5 of the PLA Application, or check one of the following:

Not known at this time

By TM88 (or equivalent)

By Timber permit

6. When will the salvage be removed/hailed from the site to a wood processing plant?

Proposed date start: 01/07/2017
dd/mm/yyyy

Proposed date complete: 01/12/2018
dd/mm/yyyy

Notes: The operator is responsible for moving the salvage to a site that is accessible to ensure all the wood can be removed. This may require forwarding the wood to a site with all-weather access.

A copy of the TM88 or equivalent must be submitted to the the Regulatory body to ensure proper tracking of ownership, transport and manufacturing can occur.

F. Soil and Vegetation Management

Soil salvage, storage, replacement, and handling procedures shall be in keeping with those outlined in *Section 6 “Site Disturbance, Clearing and Soil Management,”* of the *“Public Lands Operational Handbook”*.

Note: Projects on specific areas of public land may require a soil survey. The proponent is to identify such requirements during the planning process.

Are there soil sensitivities (i.e., shallow depth to water table; shallow depth to bedrock; soils are gravely or stony, etc.)? Yes No

Explain: See Section 3.6.1 of the PLA Application for details on soil sensitivities.

Surface expression (i.e., topography). See Section 3.6.1 of the PLA Application for details on project area topography.

Site drainage (i.e., drainage is very poor, poor, imperfect, moderately well, well, rapid, or very rapid)

See Section 3.6.1 of the PLA Application for details on site drainage.

Are there problem vegetation/weeds/invasive species on or near site at time of assessment?

Yes No **Explain** Problem vegetation/weeds/invasive species are discussed further in Section 3.6.2 of the PLA Application.

Identification of species, degree of infestation and approximate amount of area infested per species.

	Species 1	Species 2	Species 3
Trace (rare)		Refer to Section 3.6.2 of the PLA Application.	
Low (occasional)			
Moderate (scattered plants)			
High (fairly dense)			

Is there a risk of weed spread to the site if development proceeds?

High Moderate Low

If any risk, provide details in reclamation and construction sections of supplements.

If high or moderate, show location on the application plan.

G. Incidental Activities

The applicant is to identify and outline on the application plan any incidental activities required for temporary use.

Note: No additional approval is required for incidental activities that are applied for with the disposition and included in the plan.

If the incidental activity is *not approved* under the disposition, a separate approval is required. Incidental activities approved in this manner are for temporary use only and are *not* part of the surface disposition.

1. According to field assessment, will additional incidental clearings be required? Yes No
If 'Yes', indicate the purpose:

- Campsite Borrow Pit Salvage Deck
 Temporary Workspace Backslope Temporary Access
 Other Incidental activities are discussed further in Section 3.7 of the PLA Application

2. Are any additional clearings planned in reforested areas? Yes No
If 'Yes', explain _____

The Core Operating Conditions are standard practices that must be applied to all activities.

H. Core Operating Conditions

Prior to Entry - Confirmation Number

099 The holder shall contact and advise Regulatory body of its intentions:

- prior to entry upon the lands for a stated purpose,
- prior to any additional construction during the term of this authority,
- at the completion of operations or construction, and
- upon abandonment of this activity.

Upon contact prior to initial entry on the land, the Regulatory body shall issue a confirmation number that shall be maintained on file by the holder and be provided to the Regulatory body on request.

<Location & Telephone No.> _____

Adverse Ground Conditions

105 Any activity on the land during adverse ground conditions must be suspended if the activity is likely cause unacceptable damage to vegetation or soil, as may be determined by the holder or the Regulatory body.

Sample Plots

108 No entry is allowed within the boundaries of any research or sample plot.

Reclamation - Interim

127 The holder shall reclaim all disturbed land surfaces within two growing seasons. Interim reclamation, including site and debris clean-up, slope stabilization, recontouring with subsoil, and spreading of topsoil shall be done progressively and concurrently with operations.

Reclamation - Final

128 Final surface reclamation must meet the requirements for the specific activity in place at the time of abandonment.

Noxious Weeds

131 The holder shall cut, keep down and destroy all noxious weeds and restricted weeds as per the *Public Lands Act*.

Waste Material Disposal

135 The holder shall remove all garbage and waste material from this site to the satisfaction of the Regulatory body, in its sole discretion.

Watercourse/Water Body - No Material to be Deposited

148 The holder shall not deposit or push debris, soil or other deleterious materials into or through any watercourse or water body or on the ice of any watercourse/water body.

Erosion Prevention

158 The holder shall take all precautions and safeguards necessary to prevent soil and surface erosion to the satisfaction of the Regulatory body in its sole discretion.

Natural Drainage - No Interruption

161 The holder shall not create any interruptions to natural drainage, including ephemeral draws that may result in blockage of water flow.

**Miscellaneous Use
7.0 Supplement E
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 12/08/2016
dd/mm/yyyy

MLL/MLP Number _____

Legal land description from: LSD 03 Sec 14 Twp 008 Rge 04 W 5
To: LSD 04 Sec 14 Twp 008 Rge 04 W 5

A. Site

Area of existing clearing: 3.52 ha New clearing: 0.05 ha

Is the boundary of the site located within 100 m of a watercourse? Yes No

If 'Yes', specify the type of watercourse Tributary to Blairmore Creek (Class B)
and the distance between the watercourse and the site <100 m.

Provide justification and a mitigation strategy if within 100 m. See Section 6.1 of the PLA Application for justification.

B. Access

Explain the method and routing of access if not under disposition: Access to the proposed construction camp is discussed in Section 6.2 of the PLA Application.

C. Waste Management

Does the proposed use generate any waste or sewage? Yes No

If "Yes" describe the waste disposal method, sewage system, and season of use. The waste management system for the proposed construction camp is discussed in Section 6.3 of the PLA Application.

D. Site Development Strategy

Plan attached (include all areas of existing clearing(s) and new clearing(s) to be used, and their dimensions).

1. Vegetation removal: explain: See below
2. Brush disposal: Explain: See below
3. Topsoil handling/topsoil stripping width: (Check the appropriate boxes for initial and final access).

- Minimal surface disturbance (no stripping)
- Stripping
- Single lift
- Two lift
- Other

Explain if more than one box has been checked above: See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 6.4 of the PLA Application. Plan with an air photo indicating areas of existing and new clearing is provided as Figure 6-1 of PLA Application.

E. Reclamation Strategy

Revegetation Strategy: (check appropriate boxes)

- Natural recovery
- Native Seed
- Non-native seed
- Other** The reclamation strategy for the proposed construction camp is discussed in Section 6.5 of the PLA Application.

Note: It is recommended the local Land Manager/Officer and/or affected disposition holders be consulted, where relevant (e.g., FMA's) to assist in determining the appropriate revegetation strategy.

Selection Criteria

Selected Sections

Geo-Administrative Area:	Y
Requested Lands:	Y
Title Information:	N
Activity Details:	Y
Subdivisions:	NA
Client List:	Y

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-04-008-14-SW

Public Land Standing

Requested Land

Requested Land	Ownership Status	Administered By	Titled Status	Survey Status	Area in Hectares		Area in Acres		Water
					Land	Title	Land	Title	
W5-04-008-14-SW	Freehold	FRH-SUB	Titled	Surveyed	0.000	0.000	0.00	0.00	No Water Coverage
<i>Remarks: SUB 20.53 8910380 (4717GEN) BLK 1</i>									
<i>FRHOLD 0.00 BALANCE</i>									
TOTAL					0.000	0.000	0.00	0.00	

Geo Administrative Areas

ALBERTA ENERGY REGULATOR W5-04-008	SOUTH REGION	Code: AER-S
COAL DEVELOPMENT REGION W5-04-008-14	SETTLED	Code: CDR-1
ENVIRONMENT CORPORATE REGION W5-04-008	SOUTHERN	Code: ENV-1
ENVIRONMENT CONS. & RECL. DISTRICT W5-04-008	NO. 20	Code: ERD-020
EASTERN SLOPE ZONE W5-04-008		Code: ESZ
FOREST MANAGEMENT UNIT W5-04-008-14	SOUTHWEST	CO2 SOUTHERN ROCKIES Code: FMU-C-52
FISH & WILDLIFE ADMIN REGION W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWA-1-02
FISH AND WILDLIFE DISTRICT W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWD-1-09
FISH & WILDLIFE REFERRAL LANDS W5-04-008-14		Code: FWR
GENERAL LANDS CLASSIFICATION W5-04-008-14	WHITE	Code: GLC-W

Public Land Standing

GRAZING ZONE	A2		Code: GRZ-A2
W5-04-008			
INTEGRATED RESOURCE PLAN	LIVINGSTONE-PORCUPINE HILLS		Code: IRP-L2
W5-04-008-14			
LAND USE AREA	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
W5-04-008			
MUNICIPAL DISTRICT	RANCHLAND NO. 66		Code: MD-066
W5-04-008-14			
OPERATIONAL APPROVAL DISTRICTS	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
W5-04-008			
RANGELAND DISTRICT	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
W5-04-008-14			
REGIONAL PLANNING COMMISSIONS	OLDMAN RIVER		Code: RPC-02
W5-04-008			

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
LOC 940867	Letter of Authority for Amendment	1999/12/17	2019/06/23		5.54	2.243

CANADIAN NATURAL RESOURCES LIMITED

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION: 15 M
 WITHIN 100M OF WATERBODY (Y/N): N PURPOSE: ACCESS ROAD
 CLIENT FILE NO:1788

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
45069 MS			2000/02/04

W5-04-008-14-SW (0.70) (0.283)

TFA 134555	Active/Disposed	2013/07/15	2014/07/15
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BENGA MINING LTD.

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION:
 WITHIN 100M OF WATERBODY (Y/N): PURPOSE: EDUCATIONAL/RESEARCH ACTIVITY
 CLIENT FILE NO:

NO PLANS			
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W5-04-008-14-SW (0.00) (0.000)

Public Land Standing

Client List

Activity	Client ID	Name / Address	Province	Country	Postal Code
LOC 940867	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
TFA 134555	1008823-002	BENGA MINING LTD. 4300 B ST STE 307 ANCHORAGE	Alaska	UNITED STATES	99503-593

Total Activities: 2

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*** END OF REPORT ***