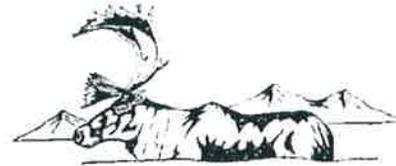




Energy, Mines and Resources

Box 2703, Whitehorse, Yukon Y1A 2C6



VUNTUT GWITCHIN GOVERNMENT

November 28, 2014

Chief Joe Linklater
Vuntut Gwitchin Government
Box 94
Old Crow, YT Y0B 1N0

The Honourable Scott Kent
Minister of Energy, Mines and Resources
Government of Yukon
Box 2703 (CM-5)
Whitehorse, YT Y1A 2C6

Dear Chief Linklater and Minister Kent:

Re: North Yukon Regional Land Use Plan Implementation Annual Report for 2013

We are pleased to provide you with this implementation update for the North Yukon Regional Land Use Plan and the minutes from the annual meeting between our two governments on February 27 & 28, 2014 (attached). This update and attached material comprises the 2013 Annual Report for your review and comment.

Pursuant to the terms of the *Memorandum of Understanding for the Implementation of the North Yukon Regional Land Use Plan* (MOU), the annual report describes the following components:

1. The year's implementation activities and issues,
2. The Parties' priorities for the subsequent year,
3. Plan amendment or review procedures and outcomes, and
4. Cumulative effects reporting results.

1) **2013 Implementation Activities and Issues:** The activities and issues discussed during the quarterly reviews by Yukon and Vuntut Gwitchin governments are summarized in the *Intergovernmental Implementation Framework*, which is included as attachment 2. The ten-page framework represents the current five year work plan which lists the specific activities undertaken to date to address the goals and recommendations of the North Yukon plan. In general, steady progress continues to be made on plan recommendations and their related action items. There were no significant issues to report on for 2013. Implementation activities to highlight from 2013 include:

- Progress on research related to the surface and linear disturbance bench marking and baseline projects as per recommendations 1.1 and 1.3 of the Plan;
- Protected Area Planning is progressing for the Whitefish Lakes as per recommendation 4.2.1 of the Plan;
- Boundary refinement of the Summit Lake and Bell River area is progressing, as per recommendation 4.2.2 of the Plan.

2) **Parties' Priorities for 2014:** In setting the annual priorities for 2014, it was agreed to continue with the first four priorities highlighted for 2013 and to add in the planned field research focussed on seismic line recovery and wildlife usage as reviewed at the annual meeting. It was decided that the remaining 2013 priority related to preparing a new 5-year work plan would be best addressed by extending the current work plan for up to two more years as discussed further below under part 3. Note that three additional priorities were later added at the subsequent quarterly meeting, yielding a total of eight priorities for 2014 as follows:

- i. Continue progress on surface disturbance and linear density benchmarking and baseline projects which will assist in future cumulative effects management (Recommendations 1.1 and 1.3);
- ii. Hydrological studies (Recommendation: 4.1 and Stand Alone Item 5: Suggested Research Priorities – Biophysical and Hydrology, Appendix 4);
- iii. Establish and continue the Whitefish wetlands management planning (Recommendation 4.2.1);
- iv. Continue work towards the designation of a Summit Lake – Bell River protected area through agreement on refined boundaries (Recommendation 4.2.2);
- v. Planned field research related to linear disturbance recovery and wildlife occupancy during 2014 (Recommendations 1.1 and 1.3);
- vi. Access management and planning in the Eagle Plains land management unit (LMU) (Recommendation 6.3);
- vii. Future aggregate source identification (Recommendation 6.5);
- viii. Researching caribou related issues to address concerns related to exploration activities in the Eagle Plains region (See management direction on page A2-11 for developing Best Management Practices (BMP) as guidance to operators (with a focus on oil and gas activities), and a need to define and implement safe operating distances from the porcupine caribou herd).

3) **2013 Plan amendment or review procedures and outcomes:** There were no plan amendments for 2013. The related requirement described in section 6.5 of the MOU between the Parties, "No later than seven years after the initial approval of the Plan, the

Parties shall determine whether they wish to undertake a plan review”, was discussed at the annual meeting. This translates to a decision being required prior to June 2016.

At this point, the implementation of the Plan is progressing smoothly and working well. There does not appear to be a need or benefit to conducting a full review of the Plan at this time, so it was decided to defer the decision for now and return for further discussion at the next annual meeting. There are still two years remaining before a decision is required.

Related to this topic, the current 5-year work plan that serves as the Intergovernmental Implementation Framework will end in June 2014. At the annual meeting the merits of carrying forward the current 5-year work plan for up to two more years and aligning the update with the required plan review decision discussed above were discussed. Both are important activities that are interlinked and would benefit from being discussed together. A decision to do so would also allow the Parties to make more progress on the current action items within the current work plan, while creating time and review efficiencies in the interim. Both Parties agreed to extend the current 5-year work plan for up to two years.

- 4) **Cumulative Effects Reporting:** This component of the annual report is a requirement of the MOU and also serves as an important educational tool. The 2012 annual report included descriptions of how cumulative effects tracking is performed and how functional disturbances are calculated. For 2013 we have included descriptions of directly related research and activities related to data refinement.
 - a. **Field research:** 2013 included further field work in preparation for the 2014 field season, and refinement of current research findings. The 2014-15 field season consists of two research studies related to linear disturbance recovery and wildlife occupancy of such features. The disturbance recovery study includes additional study sites beyond LMU 9 (Eagle Plains) and are expected to confirm conclusions derived from past studies solely within LMU 9. The wildlife occupancy study involves placing a series of remote motion-triggered cameras on and off the seismic line study plots to record wildlife species and occupancy over a 12 month period. A related study component involves installing GPS collars on members of the Porcupine caribou herd to record caribou behaviour as they approach disturbance study areas. The information collected from these studies will improve our understanding of variations between sites and the dynamics of recovery. This will allow for better informed land management decision making.
 - b. **Historical disturbance corrections:** The total area of historic disturbances has been refined through more accurate measurements made during field work related to linear disturbance recovery studies. A number of historical disturbances should now be updated to reflect the more accurate measurements. Preliminary discussion of this topic took place at the 2013 annual meeting and the timing for this update will be discussed further during 2014 by the directors.
 - c. **Updating of recovered disturbances:** Initial discussions between the Parties began at the 2013 annual meeting on how to safely proceed with a conservative

update to historical disturbance values. This management direction involves subtracting areas that now meet the Plan's definition of recovered, and is described in more detail on page 5-25 of the Plan. How and when this update will occur will need to be discussed further by the two directors during 2014, and the principals informed in advance.

The following summary provides an overview of cumulative effects and functional disturbances being tracked and monitored within the North Yukon planning region:

Projects assessed under YESAA within the North Yukon planning region are reviewed by the Yukon Land Use Planning Council for plan conformity. Five new projects began assessments during 2013. All that reached the Decision Document stage conformed to the Plan as reflected in the project conformity summary included as attachment 3.

New disturbances occurring since the approval of the North Yukon plan in June 2009 until the end of 2013* have been summarized in the table included as attachment 4 (*Note that in this instance, the largest project of 2013 did not end until early 2014, so it was decided to report on it as a whole during this reporting period versus waiting a year to include the project end disturbance values). This table does not show the historical disturbances from before 2009 as those values need to be updated as discussed at the annual meeting (see comment under 4b of this report) before being posted in a future annual report. The table reflects the amount of new functional disturbance which is measured and used to calculate surface area and linear density. Since 2009, there has now been an estimated total of 317 hectares and 1161 kilometres of new functional disturbances created in the North Yukon planning region, associated with activities recently occurring in LMU 9. The main projects were as follows:

- The 3D seismic project (YESAA 2013-0067) began field work in November 2013 and represented a significant increase of disturbance within the Eagle Plains LMU. Weekly reporting on their activities was provided throughout the project duration, and detailed disturbance data provided after completion. The disturbance data from the entire project duration was included in this report so that it could be considered with future projects on the horizon.
- The Old Crow winter road (YESAA 2013-0091) construction and use did not begin until 2014 and will be reported on in the 2014 annual report as a result. The winter road activities will cross seven LMUs, however no increases in disturbance are expected to result as they will occur within the previously used 260 kilometre long corridor.

Cumulative Effects Summary: There was a significant increase of functional disturbance in the North Yukon planning region during the current 2013 reporting period (which in this instance also includes specific project data from early 2014 as explained above). This represents the greatest increase in disturbance since the Plan was approved in 2009, with the related project activities occurred in a single land management unit, LMU 9 (Eagle Plains). This increase in activity has also provided the opportunity to demonstrate the use of cumulative effects indicators,

which are one of several tools utilized by regional land use plans in Yukon to assist resource managers and to guide land use decisions.

Detailed analysis of both historic and new disturbances shows that the current functional disturbance totals remain below the established cautionary indicator levels. The current estimate for surface area is 0.49% (cautionary level is 0.75% and critical level is 1.0%) and linear density has risen to 0.71 km/km² (cautionary level is 0.75 km/km² and critical level is 1.0 km/km²). As linear density in particular is nearing the cautionary level it will require close attention during consideration of future project proposals within LMU9.

We look forward to continue working together under the MOU to implement the North Yukon Regional Land Use Plan.

Sincerely,



Shirley Abercrombie
Assistant Deputy Minister
Energy, Corporate Policy & Communications



Pauline Frost
Director, Intergovernmental Affairs
Vuntut Gwitchin Government

/Attachments:

1. Annual Meeting minutes for February 27 & 28, 2014
2. Intergovernmental Implementation Framework updated to December 31, 2013
3. Conformity Check Summary of New YESAA Projects during 2013
4. New Disturbance Estimates from June 2009 – December 31, 2013

NORTH YUKON REGIONAL LAND USE PLAN IMPLEMENTATION
ANNUAL MEETING – MINUTES

February 27th & 28th, 2014
VGG Boardroom, Old Crow, Yukon

Attending:

VGG: Erika Tizya, William Linklater

YG EMR: Manon Moreau, Jim Bell, Randy Lamb, Kirstie Simpson

YG Environment: Mike Sutor

Day 1) Thursday 1:30 to 4:30 pm

1. Introductions and Review of Agenda

2. Seismic Line Recovery Research overview by YG Energy, Mines and Resources:

- Kirstie Simpson's presentation covered her research in the North Yukon planning region to date. Her 37 study plots include seismic line, tote road and winter trail disturbances that were created pre-1975 in relation to summer oil and gas exploration.
- Data collection pre-dated the approved North Yukon plan, with most sites ending up within the current Landscape Management Unit (LMU) 9. An overview of the data analysis and recovery trajectories has increased our understanding of variations between sites and the dynamics of recovery.
- Disturbances can be classified into three recovery types, which each approximately represent 1/3 of the total disturbances studied in LMU 9. Approximately a third of the historical disturbances (type 1) can now be considered as fully recovered, and a second third (type 2) would now meet the definition of recovered as used in the Plan. Type 3 sites have gone on a new trajectory and will likely not return to the original vegetation for the foreseeable future. A copy of the presentation was provided.
- An overview was given on the expanded related field work planned for 2014-15, which will include study sites in additional LMU's beyond LMU 9.

3. Seismic Line Occupancy Study overview by YG Environment:

- Mike Sutor gave an overview of the research and field work planned in North Yukon planning region for 2014-16. It was noted that the definition for "recovered" in the NY plan considers caribou based priorities (predator use and caribou behavior), and whether the disturbance still facilitates travel or access by wildlife or people.
- Part 1: This study will look at the question of will seismic lines affect the caribou behavior. An initial aerial late winter track survey was completed in March 2013 to establish the species distribution and lay of the land. Iridium GPS collars will be installed on members of the Porcupine caribou herd. The new collars can upload their data via satellite directly to his Dawson offices, and can also be remotely adjusted to increase data reporting frequency (i.e. from daily to hourly) when the herd approaches

study areas such as old seismic lines. This would record caribou behaviour as they approach disturbances. This work will also tie in to the concurrent North Slope calving habitat work. The information gained from studying the behaviour of the porcupine caribou is valuable as there are no published studies of how barrenland caribou behave in forested habitat.

- Part 2: The occupancy study will have remote motion-triggered cameras deployed on Kirstie's study plots to record wildlife species and occupancy. A series of cameras will be established both on and off the seismic lines study sites, and will collect 12 months of data for analysis.

4. Research priorities review:

Copies of the research priorities listed from 2013 were handed out for a quick review and consideration for 2014. They will be discussed further on day 2.

Day 2) Friday 9:00 – 10:30 am

- 5. Review of November 25th, 2013 meeting minutes and action items:** the minutes were reviewed and accepted as is. Updates on the action items were as follows:
- i. Forward the latest weekly 3D Seismic project progress report from Northern Cross to Erika, along with the contact name so that she can get on the distribution list. (Done)
 - ii. It was asked if the 3D project was following EMR's advice and best management practices. (Discussions with the EMR inspector and the regional biologist indicate that they appear to be doing so.)
 - iii. Four scientific licences were issued by DFO for projects during 2013, which included a project monitoring miscellaneous creeks along the Dempster Highway. Not clear who received the Dempster licence.
 - iv. Verify the locations of the three new hydrometric monitoring stations established by YG Water Resources in summer 2013. (Two are within the North Yukon planning region, one at McParlon Creek and the other at Eagle River. The third station is located at Dalglish Creek which is in the Peel watershed planning region.)
 - v. Research priorities will be added as a specific agenda item for discussion at the February 2014 meeting. (Done: added as an agenda item.)
 - vi. In preparation for our next meeting, both parties should review the 2009 Plan's General Management Direction (Section 5) and the Management Direction Summary Tables (Appendix 2). (Done. This was a discussion item at the February 2014 meeting, and is also linked to action item vii below.)
 - vii. Review our progress to date on the current 5-year work plan (currently covers to the end of June 2014) and consider extending the current work plan for two more years. The intent would be to provide the Parties extra time to make further progress on the existing action items in the current 5-year work plan, and to align the work plan update with the MOU requirement for a plan review decision prior to June 2016. This would align the two tasks into a single concurrent review of both items, and save time by being more efficient. (Done: item added to agenda and discussed in minutes below.)

6. Review of annual meeting requirements as per the VGG-YG MOU:

- a. **2013 Implementation Activities:** Progress on the current Intergovernmental Implementation Framework activities related to the specific recommendations of the Plan, and the status of the related action steps were reviewed. For greater detail on specific items, please consult the Intergovernmental Implementation Framework which was updated to December 31, 2013 for the annual meeting review. Once the 2013 annual report is approved, a copy of the framework will be posted on the YG public web page found at: <http://www.emr.gov.yk.ca/lands/nyrlup.html> .
- b. **Shared priorities for 2014:** Copies of the shared research priorities from 2013 were handed out for review and discussion. With regards to setting the annual priorities for 2014, it was agreed that continuing with those same priorities, as well as adding in the planned field research discussed in the two presentations on day 1, should be sufficient. If there are any further changes or additional recommendations then they should be forwarded to Randy by the end of next week.
- c. **Discussion on Plan Amendment and Review Procedures:**
 - i. As per section 6.5 of the MOU between the Parties, “No later than seven years after the initial approval of the Plan, the Parties shall determine whether they wish to undertake a plan review”. This means that a decision will be required before June 2016.
 - ii. At this point, the implementation of the Plan is progressing smoothly and working well. There does not appear to be a need or benefit to conducting a full review of the plan at this time, so a decision will be deferred for now and return for further discussion at the next annual meeting. There are still two years remaining before a decision is required.
 - iii. As we are approaching the end of the current 5-year work plan in 2014, it was discussed that we should consider aligning the 5-year work plan update with the required future plan review decision discussed above. The benefits of carrying forward with the current 5-year work plan and extending it for up to two more years were discussed. Both are important activities that are interlinked and would benefit from being discussed together. This would also allow the Parties to make more progress on the current action items within the current work plan. Going this route will create time and review efficiencies in the long term. Both Parties agreed to extend the current 5-year work plan for up to two years.
- d. **Cumulative effects reporting results:**
 - i. Five new projects began assessment under YESAA during 2013. Two were discontinued, two had positive conformity checks and decision documents issued, and one is just in the adequacy review stage.
 - ii. An update was given on the cumulative effects and disturbance guide under development. (Action Item: send a copy of the updated draft to Erika for her review and comment.)

7. Next Quarterly Meeting: June 26, 2014.

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
<p>GOAL 1: Sustainable Development</p> <p>Promote Sustainable Development by ensuring that social, cultural, economic and environmental policies are applied to the management protection and use of land, water and resources in an integrated and coordinated manner</p>	<p>1.1 As a general guideline for decision makers and land users, in the Integrated Management Area the amount of surface disturbance in a landscape management unit should be maintained below the cumulative effects indicator levels indicated in the plan (5.1.1)</p>	<p><u>1.1.1 Surface and Linear Disturbance Tracking and Reporting</u></p> <p>a) YG will track new surface and linear disturbance on public land designated as Integrated Management Areas pursuant to the Plan. Specifically, YG will track existing, new, and recovered disturbance levels in these areas.</p> <p>b) Initial research efforts in respect of existing and recovered disturbance levels will focus on identified areas off the Dempster Highway, as well as the Eagle Plains, Whitefish River-Cathedral Rocks, and Richardson Foothills eco-regions (see also item 1.3.1).</p> <p><i>Updates: Contract work done to show estimated surface disturbance. Analysis of data began Nov 2011 to review & determine if gaps exist in data (mostly LMU 9). Estimation of recovery rates continued into 2012. Presentation on research to-date given to VGG in Old Crow in November 2012. 2013 included further field work in preparation for the 2014 field season, and refinement of the research findings. Note that the 2014 field season will consist of seismic line recovery research and an occupancy study.</i></p> <p>c) VGG will track new surface and linear disturbance on Settlement Lands which are designated as Integrated Management Areas pursuant to the Plan. 2013 saw no new disturbances on VGG IMA zoned lands.</p> <p>d) The Parties will provide the cumulative effects reporting results to the Yukon Land Use Planning Council (YLUPC) on an annual basis.</p> <p><i>Updates: The 2011 annual report was provided to YLUPC on Sept 25th, 2012 and included a brief review of conformity checks and cumulative effects reporting. The 2012 annual report will include greater detail.</i></p> <p><i>During 2012 six new projects were assessed under YESAA, and all passed their plan conformity checks. The EMR CEM working group met 3 times during 2012 to focus on refining technical aspects including establishing data reporting standards and identifying sector specific issues related to monitoring and reporting. The 2012 annual report included a summary of new disturbances occurring since plan approval.</i></p> <p><i>2013 saw five new YESAA projects; two were discontinued, two have had their conformity checks and decision documents issued, and one is still in the adequacy review stage. The Eagle plains 3D seismic (2012-0067) project began their field work in November 2013. The Old Crow winter road (2013-0091) should be beginning their reconnaissance work in January 2014.</i></p>	<p>Annual reports with cumulative effects reporting: completed annually.</p> <p>Refinement of current surface disturbance estimates (i.e. Gap identification in current data, refinement of current recovery rate estimates, and filling in of gaps & setting bench marks): In Progress</p> <p>As required</p> <p>Ongoing as a part of annual reporting.</p>
		<p><u>1.1.2 Joint Technical Meetings</u></p> <p>The Parties will meet if a proposed cautionary indicator level is reached. These meetings serve as a forum for sharing information and formulating recommendations to assist respective governments' management of public and Settlement Lands in compliance with the approved Plan. The Parties may, in consultation, adopt management actions to minimize and mitigate impacts on key ecological values within the target Land Management Unit (LMU).</p>	<p>Information and recommendations to decision bodies.</p> <p>As triggered</p>

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 1: Sustainable Development (Continued) Promote Sustainable Development by ensuring that social, cultural, economic and environmental policies are applied to the management protection and use of land, water and resources in an integrated and coordinated manner		<u>1.1.3 Memorandum of Understanding</u> YG and VGG will develop a Memorandum of Understanding governing the joint technical meetings referred to in 1.1.2. The MOU will define clear guidelines and process links to the Yukon Environmental Socio-Economic Assessment Board (YESAB) and the YLUPC in respect of the cumulative effects framework.	MOU: COMPLETED
	1.2 Site closure/remediation plans should be developed, implemented and monitored for large-scale industrial and/or infrastructure projects that create significant surface disturbance (5.1.2.1)	<u>1.2.1 Site Closure/Remediation Plans</u> In consultation with VGG, YG will implement site closure and remediation plans as per standard practices for review and permitting of resource extraction and infrastructure projects requiring such site closure and remediation plans. YG to monitor the applicable site closure/remediation plans on public lands, VGG to monitor on Settlement Lands. <i>Updates: No new activity on site closure or remediation was initiated during the reporting year.</i>	Site closure and remediation plans as standard practices for projects requiring such. As required, on a project by project basis.
	1.3 To provide a benchmark for the monitoring of cumulative effects indicator levels, the status of existing surface disturbances should be documented (5.1.2.1)	<u>1.3.1 Bench-marking</u> The Parties will quantify existing linear and surface disturbance throughout the region. Initial research efforts to this end will be focused on: <ul style="list-style-type: none"> • areas that have the highest possibility of experiencing future disturbance. • areas where existing disturbances are providing winter access for hunters off the Dempster Highway. Specifically, the Parties will conduct fieldwork to document disturbance levels in this area, excluding the 2km Dempster Corridor established by the Plan. • the Eagle Plains, Whitefish River-Cathedral Rocks, and Richardson Foothills eco-regions. Specifically, in consultation with VGG, YG will use ground-truthed computer models to derive benchmark disturbance levels for these regions. Prior to deriving benchmark disturbance levels, the Parties will utilize existing and available data regarding historical surface disturbance and linear density throughout the region. <i>2013 Update: Based on current research and field study sites, it has been found that approximately a third of the historical disturbances could now be considered as fully recovered, and a second third would meet the definition of recovered used in the Plan. Future discussion will be needed in 2014 to examine how and when to implement an update of current historical disturbance values (disturbance tracking and the subtraction of recovered areas) as per section 5.1.2 of the Plan. Also see related details as listed under 1.1.1 a).</i>	Historical surface disturbance and linear density data: In Progress Satellite Imagery Capture/Interpretation: Completed Spring 2011 Dempster Highway project (future): TBD Ground-truthed information for Eagle plains region: Collected Summer 2011
	1.4 In the North Yukon Planning Region, potential climate change impacts should be considered in all land management decisions (5.1.3)	<u>1.4.1 Main-streaming climate change</u> YG will implement this recommendation by fulfilling its obligation under the YG Climate Change Action Plan. The Parties may work in partnership with the Climate Change Secretariat and Northern Climate ExChange to fulfill this recommendation, and will apply best scientific knowledge and adaptive management tools to incorporate climate change considerations into land management decisions in the region.	Climate Change is considered in all project evaluation and planning exercises. On-going

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 1: Sustainable Development (Continued)	1.4 (continued)	<p><i>Update: Yukon released an updated Climate Change Action Plan progress report during 2012 (http://www.env.gov.yk.ca/publications-maps/documents/ccap_progressreport_eng_2012.pdf), which includes sector specific targets.</i></p> <p><i>2013 update: A green-house gas BMP is in the works.</i></p>	
	1.5 Due to the potential cumulative effects of climate change and land use impacts, sensitive wetland habitats and Porcupine Caribou Herd habitats at risk of significant change should be managed more cautiously, and with a high level of conservation focus (5.1.3)	<p>1.5.1 Approve Plan</p> <p>By approving the Plan, sensitive wetlands and critical Porcupine Caribou Herd habitat, included in zone I and II, will be managed with a high level of conservation focus. <i>YG lead: all departments that manage land or review projects.</i></p> <p><i>Update: As per 2010 Annual report, the Porcupine Caribou Herd Management Plan was signed by all eight Parties.</i></p>	Approved Porcupine Caribou Herd Management Plan: Completed - Plan Approved July 2010
		<p>1.5.2 Manage Herd</p> <p>Ongoing implementation of the Harvest Management Plan for the Porcupine Caribou Herd. <i>YG lead: all departments that manage land or review projects.</i></p>	Implementation of the management plan: On-going
GOAL 2: Wildlife Maintain terrestrial habitat in a condition required to sustain regional wildlife populations	The plan does not contain any recommendations in respect of this goal. It does, however, outline a number of best practices.	<p>2.1 BMP Development</p> <p>Government agencies and project review panels are continually developing and updating BMPs. The Parties acknowledge that consideration is given to the BMPs identified in the Plan, noting that some practices may be surpassed in future, but will not require plan revision. <i>YG lead: all departments which manage land or review projects.</i></p> <p><i>Updates: The "Flying in Caribou Country" booklet was updated in 2010 (http://www.env.gov.yk.ca/publications-maps/documents/flying_caribou_country.pdf), and "BMP for Works Affecting Water in Yukon" was released in 2011 (http://www.env.gov.yk.ca/publications-maps/documents/bestpractes_water.pdf).</i></p> <p><i>No new BMPs were released in 2012, however BMP's currently underway include the following topics: trapper related, wetlands and invasive plants.</i></p> <p><i>2013 update: The trappers BMP is now in the approval process. The invasive plants and wetlands BMPs are close to finalizing their draft wording. The wilderness tourism BMP and Heritage Resources BMP for Oil & Gas are being updated to address all EMR sectors, not just oil and gas. A green-house gas BMP is also in the works.</i></p>	BMP's for areas of trappers, invasive plants, wetlands, caribou, Green House Gases: On-going
GOAL 3: Fish Maintain aquatic habitat in a condition required to sustain regional fish populations	3.1 To minimize potential impacts to regional fish populations, in-stream and lake over-wintering habitat should be identified in advance of the assessment process for large-scale	<p>3.1.1 Over-wintering Research</p> <p>YG will complete identification of in-stream and lake over-wintering habitat throughout the planning region.</p> <p><i>Update: YG Environment produced a "North Yukon Freshwater Fish Monitoring Study" poster based on results from 2006-2008 studies that included members of VGG and the NY RRC. Figure 2 on page 12 of the VG Community-based Fish & Wildlife Work Plan shows the locations of the sampling sites in the Old Crow Flats http://www.env.gov.yk.ca/publications-maps/documents/VGFNFWWP-20130327.pdf.</i></p>	Prior over-wintering projects summarized: Completed. Further work: TBD

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 3: Fish (continued)	industrial and/or infrastructure projects (5.2.4) (continued)	<u>3.1.2 Permitting - Fish Habitat</u> YG will implement as per current practices for review and permitting of resource extraction and infrastructure projects. Impact on fish is a consideration in project assessment conducted by the responsible agencies (i.e. DFO, Water Board and YESAA). <i>YG lead: all departments which manage land or review projects.</i> <i>Update: No permits related to fish habitat were found for the North Yukon Region for 2011 or 2012.</i> <i>2013 update: Two DFO research permits were issued for the Porcupine river watershed for 2013. Both were for sonar and telemetry work in the Porcupine River approximately 2 km downstream from the town of Old Crow. Habitat related work was also done on the Fishing Branch and Miner River by EDI this season.</i>	As required (No change). On-going
	3.2 Water withdrawals in sensitive fish over-wintering areas should be prohibited (5.2.4)	<u>3.2.1 Water Withdrawal Prohibitions</u> This is a consideration in existing project assessment and is to be considered collaboratively by all orders of government with jurisdiction in the North Yukon region. The Parties will implement as a matter of practice noting that compliance to this recommendation may not always be practical. <i>Update: No prohibitions were found issued in the North Yukon Region for 2011, 2012 or 2013.</i>	As required (No change). On-going
GOAL 4: Wetlands, Lakes and Rivers Maintain the integrity of wetlands, lakes, rivers and sensitive permafrost areas	4.1 To minimize potential impacts to regional wetlands, an assessment of wetland hydrology and connectivity should be conducted in advance of the assessment process for large-scale industrial and/or infrastructure projects (5.2.5)	<u>4.1.1 Wetland Hydrology Research</u> YG will apply the Canadian Wetland Classification System to assess hydrology and connectivity of wetland systems within the planning region. This research will inform future YG work to develop BMPs for each wetland type, in consultation with VGG. <i>Updates: The wetland classification web page was posted on YG Environment's web site during 2012 (http://www.env.gov.yk.ca/animals-habitat/wetland_classification.php).</i> <i>2013 update: Wetland BMP's are underway and the drafting committee has been struck.</i>	Wetland inventory, classification and assessment. Started: April 1, 2011
		<u>4.1.2 Permitting – Wetland Hydrology</u> YG will fully consider wetland hydrology in the review and permitting of resource extraction and infrastructure projects. <i>YG lead: all departments which manage land or review projects.</i> <i>Updates: No new related project activities or permits issued in region for 2011 or 2012, other than existing operations. No concerns raised.</i> <i>2013 update: Two new hydrometric monitoring stations were established by YG Water Resources in summer 2013, located on Eagle River and McParlon Creek.</i>	As required (No change). On-going

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 4: (continued)	4.2 Water withdrawals in ecologically sensitive wetland areas should be prohibited (5.2.5)	<p><u>4.2.1 Withdrawal Prohibitions</u></p> <p>The recommendation is a guiding principle to be evaluated under specific circumstances by the Parties.</p> <p><i>Updates: No withdrawal prohibitions were identified in the region for 2011, 2012 or 2013.</i></p>	As required (No change). When Triggered
GOAL 5: Heritage and Culture Recognize, conserve and promote the heritage and cultural resources and values of the Vuntut Gwitchin, other affected First Nations, and the Yukon	5.1 Management guidelines for identified routes and sites within the Integrated Management area should be developed jointly by the Vuntut Gwitchin and Yukon governments (5.3.1.1)	<p><u>5.1.1 Management Guidelines</u></p> <p>Most existing routes have been identified and management guidelines or BMPs are/will be jointly developed by the Parties as circumstances require.</p> <p><i>Updates: Heritage resource BMPs were developed for mineral exploration, placer mining and wilderness tourism during 2009 and 2010 (See http://www.tc.gov.yk.ca/bmp.html). There were no new BMPs for 2012.</i></p> <p><i>2013 updates: A new BMP is nearing completion and is expected to be published by year-end: "Best Management Practices – Found Human Remains and Burial Sites".</i></p>	Management guidelines or BMPs. On-going
	5.2 Known historic camps/cabins, historical fish trap locations, archaeological sites and other heritage resources should be identified prior to exploration and development activities, and protected from disturbance (5.3.1.2)	<p><u>5.2.1 Permitting – Historic Sites and Resources</u></p> <p>YG will implement as per current practices for review and permitting of projects which address known historic sites and resources. This item to be reassessed at the first plan review.</p> <p><i>Updates: During 2011, a permit was issued for the Heritage Resource Impact Assessment of the Proposed Old Crow Water Pumphouse. During 2012, two permits were issued for archaeological investigations: in the Eagle Plains region for Northern Cross (Yukon) Limited's proposed drill sites and associated ancillary developments, and around Driftwood River and King Edward Spit for brief archaeological site inspections involving the VGFN Heritage Office.</i></p> <p><i>2013 updates: Two archaeological research permits were issued in 2013 in the NY planning region: "Cameron - Retrieval of Wrecked Hiller 360 helicopter - SW of Old Crow", and "Mooney (Ecofor) Northern Cross 2013 Seismic work Heritage Resources Impact Assessment".</i></p>	Management Guidelines development as required. Permitting of projects: On-going
GOAL 6: Economic Facilitate economic development opportunities and activities that results in socio-economic benefits to the community of Old Crow, other affected First Nations and Yukon	6.1 In recognition of the strategic importance of the Dempster Highway and its designation as a Northern and Remote route under the National Highway System, surface disturbance and linear density indicator reporting and evaluation are exempt within a distance of 1 km on each side of the highway centre line (2-km total corridor width) (5.4.1.1)	To be re-evaluated at first plan review.	N/A

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 6: Economic (Continued)	6.2 An all-season access road to Old Crow is not required at this time (5.4.1.2)	To be re-evaluated at first plan review.	N/A
	6.3 In advance of significant levels of energy sector activity, an access management plan should be developed for the Eagle Plain oil and gas basin (5.4.1.3)	<p><u>6.3.1 Access Management Plan</u></p> <p>YG and VGG will jointly develop an access management plan for the Eagle Plain oil and gas basin. Within two years of the Plan being approved, the Parties will draft the terms of reference establishing the factors to be considered in developing the access management plan for this area.</p> <p><i>Updates: Main HPW contact retired during 2012, and new staff to be brought up to speed. VGG wishes to defer this planning until the Peel process has completed, and will inform Yukon when they are ready to proceed.</i></p> <p><i>2013 updates: No change for this period. The current 3D seismic exploration program access is facilitated along the existing Chance Creek Road and through the terms and conditions of the land use permit. The future need for a management plan will be triggered by a clear development need by industry.</i></p>	Terms of Reference: was to start in Fall 2010 (Deferred, await decision to proceed from VGG)
	6.4 To support maintenance and growth of Old Crow, the Community Area (CA) should be exempt from surface disturbance and linear density indicator monitoring (5.4.2)	<p><u>6.4.1 CA Location</u></p> <p>VGG, in consultation with YG, will determine exact location of the CA. Until such time that the Parties finalize the CA location, the CA shall be defined as a 5-km radius from the centre of Old Crow. The area is not expected to include lands across the Porcupine River from Old Crow.</p> <p><i>Update: VGG indicated during 2012 that the 5 km radius is adequate for now. No change for 2013.</i></p>	CA boundary delineation centered on the VGG admin building:
	6.5 To mitigate potential impacts to significant and/or sensitive ecological or cultural resources and values, the identification and mapping of potential sources of aggregate should be undertaken in advance of the assessment process for large-scale industrial and/or infrastructure projects (5.4.7)	<p><u>6.5.1 Aggregate Mapping</u></p> <p>YG will continue to map potential aggregate resources in the North Yukon region in consultation with VGG.</p> <p><i>Updates: YG checked for past aggregate research reports in the planning area during 2012 for information to share with VGG. Some field work for YG Highways also occurred along the Dempster Highway near Eagle plains during 2012 but the reports are not yet available.</i></p> <p><i>2013 update: Minor sampling of aggregate sources by YG along the Dempster done summer 2013 between approximately km 120 and Eagle Plains. Results of the Yukon Exploration & Geology paper are expected in 2014. Some permafrost related geotechnical investigation and instrumentation was scheduled to take place the last week of November. VGG will advise YG of future gravel needs.</i></p>	Aggregate maps: On-going
6.6 A future Old Crow Forest Management Plan should maintain community fuelwood and forest harvesting	<p><u>6.6.1 Community Forest Management Plan</u></p> <p>VGG and YG will develop a Community Forest Management Plan for Old Crow as provided for in s.30 of the <i>Forest Resources Act</i>, to provide accessible forest use for local residents.</p>	Community Forest Management Plan: When capacity and resources permit	

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Goal	Recommendations	Action Steps and Updates	Results Expected / Status
GOAL 6: Economic (Continued)	opportunities within the identified fuelwood and forest harvesting area shown in Map 3, Appendix 1 (5.4.8)	<i>Updates: The need for a community forest plan was raised as an issue within the community. Copies of YG Forestry maps and data were shared in 2011. No updates for 2012. VGG hopes to start some related work during 2013 or later.</i>	
	6.7 Renewable energy options and solutions for the community of Old Crow should continue to be researched and promoted (5.4.9)	<p><u>6.7.1 Energy Option Research and Promotion</u></p> <p>VGG will lead the energy options research initiative, with initial focus on improving the energy efficiency of existing and new houses and government buildings in Old Crow and the use of heat energy from Yukon Electrical Company's power generators to support other community infrastructure. In consultation with VGG, YG will conclude a technical analysis of renewable energy options for Old Crow.</p> <p><i>Updates: During 2012 there was work with the Energy Solutions Centre on a solar monitoring project at the John Tizya Arctic Research Centre, and the creation of a renewable energy resource database. There was also a biomass project with a solid waste management incinerator underway during 2012, and a proposal being considered for a wind/solar tandem system with a grid feed for the community.</i></p> <p><i>2013 update: The contract for the Old Crow "community energy plan" has been issued. Work will start in March 2014 and include strategic planning, a situation analysis, and potential improved efficiencies (insulation, improved efficiencies, energy from renewable, other options) and supply options such as from their proposed 330 kw solar array. The Sea Breeze application has been pushed back to the next fiscal year.</i></p>	Energy options research report: When capacity and resources permit

	Stand-Alone Item	Action Steps and Updates	Results Expected / Status
1	<p>Land Use Designation Recommendation 4.2.1 Whitefish Lakes:</p> <p>LMU 8A, Whitefish – Porcupine Lakes, a sub-unit of Whitefish Wetlands, should be designated as a Protected Area category.</p>	<p><u>i. Designations and Withdrawals</u></p> <p>YG will withdraw (via OIC for 5 year term) the public land portion of LMU 8A and manage the land in accordance with the Plan until a more detailed management plan for the Whitefish wetlands is undertaken and adopted within the term of the OIC.</p> <p>VGG will designate the Settlement Land portion of 8A as a protected area.</p>	OIC withdrawal and VGG designation: Completed
	<p>Land Use Designation Recommendation 4.2.1 Whitefish Lakes:</p> <p>LMU 8A, Whitefish – Porcupine Lakes, a sub-unit of Whitefish Wetlands, should be designated as a Protected Area category.</p>	<p><u>ii. Management Planning</u></p> <p>VGG will lead the development of detailed management plan for the Whitefish Wetlands with YG involvement.</p> <p><i>Updates: YG Environment and VGG have started work on a fish and wildlife management plan. The Community-based Fish & Wildlife Work Plan was expected to complete in 2012, but continued into 2013. The final work plan was produced and distributed in March 2013. (http://www.env.gov.yk.ca/publications-maps/documents/VGFNFWWP-20130327.pdf)</i></p>	Protected area management plan: Started: April 1, 2011

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

	Stand-Alone Item	Action Steps and Updates	Results Expected / Status
1 Cont'd	Land Use Designation Recommendation 4.2.1 Whitefish Lakes: (continued)	<p><i>YG Environment and VGG continue to work together to define the type of protected area mechanism, under YG legislation, that will be applied to the area until such time as VGG develops a Lands Act that will enable VGG to designate the area (expected 5 year timeline). Working group members were selected in 2012 and the first WG meeting was deferred to 2013.</i></p> <p><i>2013 update: There are two YG representatives on the Whitefish Wetlands HPA Working Group (WG). The terms of reference for the management planning work are completed and work is progressing well. Three WG/community meetings were held in Old Crow during April, July and October 2013. The WG is beginning to draft a vision for the area and has begun work on interests for Whitefish Wetland. The next meeting is scheduled for mid-March 2014.</i></p>	
2	Land Use Designation Recommendation 4.2.2 Summit Lake: LMU 4C, Summit Lake-Bell River, a sub-unit of the Northern Richardson Mountains and Foothills, should be designated as a Protected Area category.	<p><u>i. Withdrawal</u> YG will withdraw (via OIC for 5 year term) the proposed study area until final boundaries are defined and management plan is completed. After the management plan is complete, area within redefined Protected Area will be permanently withdrawn.</p> <p><u>ii. Resource Assessment</u> YG will complete the resource assessments for the identified Summit Lake area. <i>Updates: Preliminary Archaeological Inventory in the Summit Lake-Bell River Region completed and report submitted 2010 (joint project with VGFN and TG). EMR YGS mineral potential assessment released in August 2011. The information was incorporated into YG Environment's internal review during 2011, and the YG interdepartmental boundary review in 2012.</i></p> <p><u>iii. Boundary Delineation</u> The Parties in consultation will delineate the finalized boundaries of the Summit Lake Area. <i>Updates: YG Environment developed and produced potential boundary scenarios during 2011. The YG interdepartmental review took place during 2012. Boundary configuration refinement is nearing completion and will continue into 2013, followed by final review with VGG.</i> <i>2013 update: Discussion and review of boundary configuration with VGG is ready to begin in 2014.</i></p> <p><u>iv. Memorandum of Understanding</u> The Parties will conclude an MOU regarding the legal designation of the finalized Summit Lake Area.</p> <p><u>v. Protected Area Planning</u> The Parties will undertake protected area planning within the term of the OIC. Protected area planning to include options for an access corridor to the North Slope. During the interim period, management direction will rely on the Regional Land Use Plan.</p>	<p>OIC withdrawal: Completed</p> <p>Resource Assessment Reports: Completed Summer 2010 & 2011</p> <p>Boundary related research: During 2012 – 2013</p> <p>Boundary discussions and agreement : To begin during 2014</p> <p>MOU: begin in 2013 once boundaries are finalized</p> <p>Protected area management plan: Begin in 2013 or 2014 once boundaries</p>

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

	Stand-Alone Item	Action Steps and Updates	Results Expected / Status
2 (Cont.)	<p>Land Use Designation Recommendation 4.2.2 Summit Lake (Continued):</p> <p>LMU 4C, Summit Lake-Bell River, a sub-unit of the Northern Richardson Mountains and Foothills, should be designated as a Protected Area category.</p>	<p><i>Updates: Environment's Park Planning Unit received the Yukon Geological Survey report in August 2011 for review and analysis. Potential boundary scenarios were developed and vetted by their senior management. YG interdepartmental review and discussions on best potential scenarios took place through 2012 and will continue into 2013. Noted that VGG would become involved in the discussion on boundary refinement once YG has reached consensus on one or more potential scenarios.</i></p> <p><i>Yukon Parks let a contract in September 2011 to VGFN to ID cultural heritage values within the Summit Lake- Bell River study area to contribute to the boundary assessment work. The report work was completed March 31st 2012 and was funded through implementation funding allocation.</i></p>	are finalized
3	<p>Land Use Designation Recommendation 4.4 North Yukon Withdrawal:</p> <p>Should the applicable authorities decide to lift the North Yukon Land Withdrawal at a future date, LMU 2A and LMU 4A should be considered for Integrated Management Area Zone III designation.</p>	<p>The Parties will develop a consultation plan in respect of the North Yukon Land Withdrawal. Pursuant to the consultation plan, YG will amend the existing withdrawal order so as to remove LMUs 2A, 3, and 4A from the order, and extend the order to apply to the study area for the proposed protected areas (Summit lake – Bell River and Whitefish wetlands). The land use designation IMA Zone II will be applied to LMUs 2A, 3 and 4A.</p>	<p>Consultation plan and withdrawal orders: Completed</p>
4	<p>Landscape Management Unit #12B Fishing Branch HPA</p> <p>a. The Fishing Branch Committee of Managing Agencies should consider applying the land use designation concepts and criteria used in this Plan to the Fishing Branch HPA at the next HPA management plan review</p> <p>b. Further delineation of the Fishing Branch HPA southern boundary should also be considered during the next HPA management plan review.</p>	<p>The Committee of Managing Agencies conducted a review of the HPA management plan in 2009. This recommendation was tabled and discussed. It was determined that the Landscape Management Unit (LMU) will not be classified as a zone I, II, or III similar to other LMU's in the planning region. Rather, the management plan will take precedence regarding activities and land use options contained within since it provides a much more focused description and explanation of land use parameters. The acceptance and use of Cumulative Effects Indicators was not discussed but will be tabled at a future meeting of the Committee of Managing Agencies.</p> <p><i>Update: The Committee of Managing Agencies did not meet during 2013, but is expect to do so in 2014. The acceptance and use of Cumulative Effects Indicators is scheduled to be tabled and discussed at the next meeting.</i></p>	Completed
		<p>Once the VG/TH Traditional Territory overlap is resolved, the Fishing Branch Committee of Managing Agencies will work to establish a watershed-based boundary for the southern part of the HPA.</p> <p><i>2012 Update: The Dawson Regional Planning Commission has been made aware of this item and will factor it into the development of the future Dawson Plan.</i></p> <p><i>2013 update: The "Dawson Planning Commission Plan Alternatives report" is to be released for review in early 2014. The commission will review feedback, complete their boundary refinement and are scheduled to then produce the draft plan by summer 2014.</i></p>	<p>HPA boundary: Once overlap issue is resolved</p>

INTERGOVERNMENTAL IMPLEMENTATION FRAMEWORK: North Yukon Regional Land Use Plan

	Stand-Alone Item	Action Steps and Updates	Results Expected / Status
5	Suggested Research Priorities, Appendix 4	<p>Appendix 4 of the Plan provides a summary of various research suggestions made throughout the Plan. The Parties will review, agree to, and develop a timeline for undertaking research priorities commensurate with available resources.</p> <p><i>Updates: the main research focus has been bench marking and baseline research during 2011 and 2012. See further details under Goal 1, recommendations 1.1 and 1.3)</i></p> <p><i>2013 update: It was decided by both parties that the plan's research priorities be scheduled as a discussion item for the 2013 annual meeting (which would take place in early 2014) as it is an important consideration for the next 5-year work plan.</i></p>	<p>Research timeline and products: June 2011-2014</p>
6	<p>Plan Implementation, section 7.1</p> <p>The Parties will develop a detailed Plan implementation strategy concurrently with, or subsequent to, the approval of a Final Land Use Plan.</p>	<p>The YG and VGG will update the Intergovernmental Implementation Framework annually.</p> <p><i>2013 update: Approvals were requested to post the annual reports on Yukon's Regional Land Use Planning web page in order to make the information in them more publicly accessible. This is expected to occur during March 2014.</i></p>	<p>Updated Intergovernmental Implementation Framework: On-going with annual updates.</p>
7	<p>Plan Revision, section 7.2</p> <p>Plan Reviews will occur on an agreed-upon schedule, or whenever the Yukon and Vuntut Gwitchin governments agree it is required. Methods and timelines for changing the Plan will be developed as part of the detailed implementation strategy.</p>	<p>VGG and YG will jointly develop a Memorandum of Understanding detailing the plan revision schedule and triggers thereof. The Memorandum of Understanding will address whether such reviews are mandatory or discretionary, and shall clarify any applicable public review processes.</p>	<p>MOU: Completed</p>
8	Best Management Practices	<p>Government agencies and project review panels are continually developing and updating BMPs. The Parties acknowledge that consideration is given to the BMPs identified by the Plan, noting that some practises may be surpassed in future, but will not require plan revision. <i>YG lead: all departments which manage land or review projects.</i></p> <p><i>Updates: There were no new BMP's released by YG during 2012. There are several in the works during 2013. See Action Steps 2.1 (BMP Development) and 5.1.1 (Heritage Management Guidelines) for further details, and web links to existing BMPs.</i></p>	<p>BMP's being developed on an ongoing basis. On-going</p>

Conformity Check Summary of New YESAA Projects During 2013

	<u>YESAA #</u>	<u>Project Proponent</u>	<u>Project Description</u>	<u>LMU</u>	<u>Zoning</u>	<u>Conformity & Approval Date</u>	<u>Comments</u>
1	2013-0001	McNevin Management Ltd.	McNevin Management Ltd. WUL Amendment	LMU 10B Rock River – Mt Joyal	IMA Zone II	Assessment Discontinued	Yukon Water Board ruled that Water Use License Amendment not required
2	2013-0058	(EBA for VGG)	Old Crow Aerodrome Fuel Storage Facility	LMU 2A Old Crow - Rampart house	CA	Proposal Withdrawn and Resubmitted	Adequacy review period expired (180 days)
3	2013 - 0067	Northern Cross (Yukon) Limited	Eagle Plains 3D Seismic Survey	LMU 9 Eagle Plains	IMA Zone IV	Yes DD issued Sept 24, 2013	Project conforms to Regional Land Use Plan
4	2013-0091	Vuntut Gwitchin Government	Old Crow Winter Road	LMUs 2A, 2B, 2C, 6, 7, 8C & 9	CA & IMA (YG & VGFN Lands)	Yes DD issued Aug 16, 2013	Project conforms to Regional Land Use Plan
5	2013-0150	(EBA for VGG)	Old Crow Aerodrome Fuel Storage Facility	LMU 2A Old Crow - Rampart house	CA	Assessment Discontinued and Resubmitted	Project returned as 2014-0101

(Abbreviations: CA = Community Area, IMA = Integrated Management Area, DD = Decision Document)

New Disturbance Estimates from June 2009 – December 31, 2013[†]

Land Management Unit	LMU sub-unit	Area ¹ (km ²)	Land Use Category ²	IMA Zone ^{††}	New Surface Disturbance (km ²) ^{†††}	New Linear Density (km/km ²) ^{†††}
1. Old Crow Flats SMA	1A. Vuntut National Park	4,374 (8%)	PA	N/A	0	0
	1B. Old Crow Flats Core Wetlands	4,504 (8%)	PA	N/A	0	0
	1C. Old Crow Flats West	726 (1%)	PA	N/A	0	0
	1D. Old Crow Flats East	2,518 (5%)	PA	N/A	0	0
	LMU total	12,122 (22%)			0	0
2. Lower Porcupine River	2A. Old Crow – Rampart House	1,525 (3%)	IMA**	Zone II	0	0
	2B. Bluefish River – David Lord Creek	3,083 (6%)	IMA	Zone III	0	0
	2C. Bluefish – Cadzow Lake Wetlands	980 (2%)	IMA	Zone I	0	0
	LMU total	5,588 (11%)			0	0
3. Driftwood River – Salmon Cache	none	2,876 (5%)	IMA**	Zone II	0	0
4. North Richardson Mountains and Foothills	4A. Bell – Waters River	2,126 (4%)	IMA**	Zone II	0	0
	4B. LaChute River	1,331 (2%)	IMA	Zone II	0	0
	4C. Summit Lake – Bell River	1,525 (3%)	PA	N/A	0	0
	LMU total	4,982 (9%)			0	0
5. Bluefish Lake – Keele Range	none	2,066 (3%)	IMA	Zone III	0	0
6. Ahvee and Sharp Mountains	none	2,714 (5%)	IMA	Zone III	0	0

¹ Percentage of entire planning region area occupied by each LMU or sub-unit is shown in brackets.

² Land Use Category abbreviations: PA=Protected Area (existing or proposed), IMA=Integrated Management Area, ** = under North Yukon Land Withdrawal, *** = Fishing Branch HPA Land Use Category for LMU 12B to be determined.

[†] Note that the reported data also includes disturbances up to the completion of the 3D seismic project (YESAA 2013-0067) in early 2014 to allow for a better representation of current disturbance levels within Eagle Plains LMU 9. These estimates are based on best current knowledge and subject to updates and refinement.

^{††} Cumulative effects indicators at the Cautionary level for the four IMA zones are: Zone I = 0.075%, Zone II = 0.15%, Zone III = 0.375%, Zone IV = 0.75%

^{†††} Surface Disturbance area can be reported as either hectares (ha), square kilometres (km²), or as a percentage of the LMA area (%). Linear Density values can be reported either as total linear distance (km), or as a ratio of linear distance to LMU area (km/km²).

Note: New disturbances that have been either exempted or occurred on existing disturbances are not included (See definition of Functional Disturbance, pg.3-2, North Yukon Regional Land Use Plan, June 2009).

New Disturbance Estimates from June 2009 – December 31, 2013[†]

Land Management Unit	LMU sub-unit	Area ¹ (km ²)	Land Use Category ²	IMA Zone ^{††}	New Surface Disturbance (km ²) ^{†††}	New Linear Density (km/km ²) ^{†††}
7. Johnson Creek	none	3,230 (6%)	IMA	Zone IV	0	0
8. Whitefish Wetlands	8A. Whitefish – Porcupine Lakes	468 (1%)	PA	N/A	0	0
	8B. Eagle – Bell River	1,124 (2%)	IMA	Zone I	0	0
	8C. Porcupine River	302 (1%)	IMA	Zone I	0	0
	LMU total	1,894 (4%)			0	0
9. Eagle Plains [†]	none	6,415 (11%)	IMA	Zone IV	3.17 km ² (= 0.49% of LMU)	0.181 km/km ² (= 1161.2 km)
10. South Richardson Mountains and Foothills	10A. South Richardson Mountains	780 (1%)	IMA	Zone II	0	0
	10B. Rock River – Mount Joyal	2,374 (4%)	IMA	Zone II	0	0
	LMU total	3,154 (5%)			0	0
11. Whitestone River	none	1,740 (3%)	IMA	Zone III	0	0
12. Ni'inlii'njik (Fishing Branch) SMA	12A. Ni'inlii'njik Protected Area	5,524 (10%)	PA	N/A	0	0
	12B. Fishing Branch Habitat Protection Area	980 (2%)	***	N/A	0	0
	LMU total	6,504 (12%)			0	0
13. Kandik River	none	2,266 (4%)	IMA	Zone IV	0	0
TOTALS		55,548 (100 %)				

[†] Note that the reported data also includes disturbances up to the completion of the 3D seismic project (YESAA 2013-0067) in early 2014 to allow for a better representation of current disturbance levels within Eagle Plains LMU 9. These estimates are based on best current knowledge and subject to updates and refinement.

^{††} Cumulative effects indicators at the Cautionary level for the four IMA zones are: Zone I = 0.075%, Zone II = 0.15%, Zone III = 0.375%, Zone IV = 0.75%

^{†††} Surface Disturbance area can be reported as either hectares (ha), square kilometres (km²), or as a percentage of the LMA area (%). Linear Density values can be reported either as total linear distance (km), or as a ratio of linear distance to LMU area (km/km²).

Note: New disturbances that have been either exempted or occurred on existing disturbances are not included (See definition of Functional Disturbance, pg.3-2, North Yukon Regional Land Use Plan, June 2009).