

Appendix T
Land and Resource Use

**Application for an Environmental Assessment
Certificate**

**Appendix T-1
Land Use Planning Regimes overlapping the Project
Footprint**

T.1.1 INTRODUCTION

This appendix provides a summary of current Land Use Plans (LUP), including Land and Resource Management Plans (LRMP), Sustainable Resource Management Plans (SRMP) and sensitive area plans that overlap the project footprint.

The following three LUP regimes represent a sequence of land planning decisions, some of which have now been superseded. These sections should be interpreted bearing in mind the following statement.

The North Coast LRMP process ended in 2004 with the Coast Land Use Decision Implementation (2007) and its subsequent fulfilment (2009) leading to the amendment of the Central and North Coast Order in 2009 and again in 2013.

The following three sections are presented in chronological order from oldest to most recent.

T.1.2 NORTH COAST LAND AND RESOURCE MANAGEMENT PLAN

The North Coast LRMP area was located in northern BC and was bordered by the Pacific Ocean to the west and the Coast Mountains to the east. Most of the coastal communities outside of Prince Rupert are Aboriginal villages; the Tsimshian, Nisga'a and Haisla people note they have inhabited the area for thousands of years. Nisga'a Lands as defined in the Nisga'a Final Agreement (NFA) are outside of the area discussed in the LRMP. However, the Nisga'a Nation has fee simple properties within and specific treaty rights over, the part of the LRMP area that coincided with the Nass Area and the Nass Wildlife Area as defined in the NFA. The LRMP has been informed by First Nations Land Use Plans and developed within the overall context of a coastal planning strategy.

The LRMP has been developed based on the principles of ecosystem based management (EBM). EBM is an adaptive approach to managing human activities that seeks to ensure the coexistence of ecosystems and human communities. The intent is to maintain characteristics of ecosystems such that component species and ecological processes can be sustained, and human well-being supported and improved. Consistent with the guiding principles of EBM, the LRMP recommends three land use designations for the plan area:

- Protection Areas –areas where commercial forestry, mineral exploration and development, and hydroelectric projects are prohibited, and other permitted uses, and the levels of such permitted uses are to be determined in a manner that respects the purpose of protection areas as described in the LRMP
- Areas with No Logging and No Major Hydro-Electric Development

- EBM Operating Areas -- areas available for a full range of economic activities (i.e., commercial forestry, mineral exploration and development, and hydro-electric development) provided that uses are consistent with the application of EBM as described above and in the LRMP.

These areas are in addition to the existing protected areas, areas with no logging and no major hydro-electric development, and EBM operating areas (Ministry of Sustainable Resource Management 2004).

T.1.3 COAST LAND USE DECISION IMPLEMENTATION (CLUDI)

This land use decision set out the framework for the full implementation of EBM for the North Coast area by March 31, 2009. Key elements of the Decision identified new protected areas, the Spirit Bear conservancy, and adopted EBM that supports conservation and sustainable land use practices (Ministry of Agriculture 2006). The decision set the stage for finalizing government-to-government land use agreements with Aboriginal groups (BC ILMB 2013).

Following the fulfillment of the Coast Land Use Decision, the focus shifted to the development of strategies to improve human well-being and a strategic landscape reserve design, designating Grizzly Bear no-hunting areas, concluding conservancy management planning, and improving land use objectives (BC ILMB 2013).

There are three land use zones within the Central and North Coast plan areas: protected areas (including newly established conservancies as well as existing protected areas) ; biodiversity, mining and tourism areas; and EBM operating areas. At the time of writing, MFLNRO recorded 114 conservancies as established in the Central Coast and North Coast planning area, with an additional conservancy approval (not yet established). These conservancies include 112 new protected areas and two areas converted from other designations. Also recently established are “no hunting” areas for grizzly and black bears (MFLNRO n.d.).

T.1.4 CENTRAL AND NORTH COAST ORDER BOUNDARY

Within the Central and North Coast Order Boundary, there are 10 zones designated as grizzly bear habitat. The objectives for grizzly bear habitat in the plan are the maintenance of 100% of Class 1 Habitat and 50% of Class 2 Habitat. Within these objectives, the habitat may be altered or harvested in the following circumstances:

- A qualified professional has confirmed that the disturbance will not cause a material adverse effect to the suitability of the grizzly bear habitat.

- An adaptive management plan has been prepared and implemented during operational planning and primary forestry activity phase to the extent practicable. An adaptive management plan means a monitoring or research initiative that examines the results of management activities and policies that vary from requirements.
- The alteration or harvesting is required to accommodate minor boundary adjustments to a proposed cutblock and will affect less than 5% of the area of a polygon set out in Schedule 2 of the order.
- A qualified professional has confirmed that there is no practicable alternative for road access, the road right-of-way clearing width is the minimum safe width necessary to accommodate the road, and to the extent practicable, avoids or limits any material adverse effect to grizzly bear habitat.
- No practicable alternative for other infrastructure exists.
- There have been efforts to engage in information-sharing or consultation with the applicable First Nation (MFLNRO 2013a).

The implementation of ecosystem based management (EBM) that simultaneously maintains ecosystem integrity and benefits human communities is supported by the land use objectives set out in the Central and North Coast Order. Objectives included in the Order pertain to Aboriginal traditional heritage features, forest resources, culturally modified trees; aquatic resources; and biodiversity (BC ILMB 2009a).

T.1.5 BULKLEY LAND AND RESOURCE MANAGEMENT PLAN

With the Bulkley LRMP, there are seven RMZs, all of which are designated as settlement/integrated resource management. Two integrated management RMZs are overlapped by the project footprint. The objective of the integrated RMZ is to recognize a full range of resource values and activities, with no single value or activity identified as having the highest priority for management (Bulkley Valley Community Resources Interagency Planning Committee 1998).

T.1.6 BULKLEY VALLEY SUSTAINABLE RESOURCE MANAGEMENT PLAN

The Bulkley Valley SRMP includes six zones for the management of visual quality objectives and is designated as Special Management 2 (SM2). Areas designated as SM2 zones allow industrial activities to be carried out in a manner that limits effects on identified values, such as visual quality. Where effects occur, they are managed through agency review and approval processes (BC ILMB 2005).

T.1.7 CRANBERRY SUSTAINABLE RESOURCE MANAGEMENT PLAN

The Cranberry SRMP includes the following guided principles:

- Aboriginal rights and treaty rights will not be unjustifiably infringed upon by resource development activities of the Crown or by licensees.
- The Crown and licensees are legally obligated to consider treaty rights and potential existing Aboriginal rights in decision-making processes that could affect those rights.
- Consultation with Nisga'a Lisims Government will proceed consistent with the Nisga'a Final Agreement.
- Consultation with the Gitanyow will proceed consistent with provincial government policy.

There are 169 portions of management areas defined by this SRMP overlapped by the project footprint. These areas include a variety of ecosystem management areas, habitats, and watershed areas. There are no specific restrictions related to this plan; however, development of the area should be guided by the principles defined above (MFLNRO 2012a). Aboriginal rights and treaty rights as discussed in the plan are discussed in Part C of the Application for an Environmental Assessment Certificate (EAC).

T.1.8 DAWSON CREEK LAND AND RESOURCE MANAGEMENT PLAN

There are 15 RMZs within the Dawson Creek LRMP. Industrial activity is permitted in all RMZ's with the exception of protected areas. A number of settlement, general, enhanced, special, and resource development focused RMZs and RMZ subzones are overlapped by the project footprint. Although resource development and access may be limited or restricted in some cases, the plan provides strategic direction for more detailed planning to allow for responsible resource development within the planning area (BC ILMB 1999a).

T.1.9 FORT ST JAMES LAND AND RESOURCE MANAGEMENT PLAN

There are eight RMZs within the Fort St. James LRMP. Seven are designated as resource development RMZs. Management on these lands emphasizes the development of resources, such as mineral extraction and timber harvesting, while limiting effects on other resources through a variety of integrated resource management strategies. One area within the LRMP is designated as special management. Resource development (including access road development) may proceed in this area, as long as effects on other resource values are limited and resource values are maintained. Five resource development RMZs and one special RMZ are overlapped by the project footprint (BC ILMB 1999b).

T.1.10 FORT ST JOHN LAND AND RESOURCE MANAGEMENT PLAN

Within the Fort St. John LRMP, a single RMZ is designated as general resource management. Industrial activity is permitted in all RMZ's categories, with the exception of protected areas. Although resource development and access may be limited or restricted in some RMZ's, the plan provides appropriate strategic direction for more detailed planning to allow responsible resource development in the vast majority of the planning area (Fort St. John LRMP Working Group 1997).

T.1.11 KALUM LAND AND RESOURCE MANAGEMENT PLAN

There are 95 RMZs within the Kalum LRMP. This includes RMZs that are identified as habitat/population units for both grizzly bear and moose. Portions of general and protection RMZs are overlapped by the project footprint. The Kalum LRMP adopts the general management direction of maintaining opportunities for access for the full range of resource development and user needs while limiting conflicts between the development and use of access and the conservation of sensitive environmental, recreational, and cultural heritage values. Access management planning coordinates development among various users such that future developments utilise existing or shared access wherever possible (BC ILMB 2002).

T.1.12 KALUM SOUTH SUSTAINABLE RESOURCE MANAGEMENT PLAN

The Kalum SRMP area includes Crown land within the Kalum LRMP area, excluding the Kowesas Landscape Unit, and all parks and protected areas.

By making objectives and strategies set out in the Kalum LRMP that relate to forestry development and the Forest and Range Practices Act (FRPA) legally binding, the Kalum SRMP is able to implement objectives at the landscape level. SRMP objectives are determined as legally binding through an Order. Planning of certain activities in areas including that part of the Kalum SRMP that is within the southern boundary of the Nass Area and Nass Wildlife Area is facilitated by a number of joint Nisga'a/Provincial/Federal committees established by the Nisga'a Final Agreement. These committees include:

- Joint Fisheries Management Committee—mandated to enable cooperative planning and conduct of Nisga'a fisheries and enhancement initiatives in the Nass Area, and
- Nass Wildlife Committee, mandated to enable wildlife management within the Nass Area.

Specific plan goals of the SRMP are to:

- maintain the quantity and quality of wildlife populations and habitats
- maintain the natural biodiversity of the area, including the full range of functional and healthy ecosystems, over time and at all scales
- maintain the aesthetic values of the forest landscape to provide a reliable environment for tourism operators and a quality natural environment experience for tourism, local residents and Aboriginal groups
- minimize visual impacts through appropriate landscape design of industrial development
- maintain water quantity and quality that meets Canadian Drinking Water Standards for purposes of human consumption and safety in areas of intensive community water use.

Plan goals are accompanied by a number of specific objectives for resource values in the SRMP (BC ILMB 2006a).

T.1.13 KISPIOX LAND AND RESOURCE MANAGEMENT PLAN

The Kispiox planning area covers 1.2 million ha in west central BC and corresponds to the Kispiox Timber Supply Area and the Kispiox Forest District, excluding the Cranberry Timber Supply Area (BC ILMB 1996).

Land and resource management activities within the Kispiox planning area are guided by a number of policies and strategies, in addition to local and operational plans, including the:

- Land Use Charter
- Land Use Goals recommended by the Commission on Resources and Environment (January 1994).
- Protected Areas Strategy (May 1993). The intent of the strategy is to protect viable representative examples of natural diversity and special natural, cultural heritage and recreational features.
- Forest Renewal BC (June 1994) for the implementation of the Forest Renewal Plan.
- Forest Practices Code guidebooks
- Timber Supply Review (initiated in 1992) is to provide the chief forester with up-to-date information to confirm or adjust the allowable annual cuts (AACs)
- BC Mineral Strategy
- BC Grizzly Bear Conservation Strategy (June 1995) (BC ILMB 1996).

Objectives and strategies are provided in the LRMP for biodiversity, water, fisheries, riparian areas, roads, cultural heritage resources, protected areas, range and agriculture, recreation, scenic areas, timber, tourism, wildlife, minerals, oil and natural gas and botanical forest products. There are 26 RMZs within the LRMP focusing on either protection, special (scenic/recreation/wildlife), special (community watershed), and general resource development. General zone requirements are guiding principles for each the RMZ categories and are described below; however, specific zone requirements include additional recommendations, objectives and management, strategies for an RMZ. These specific zone requirements are detailed in the LRMP (BC ILMB 1996).

Timber harvesting, exploration and development of minerals, oil and natural gas, and hydro-electric development is not be permitted in protected areas (protection RMZs) designated in the Kispiox planning area. In “special” RMZs resource development is generally permitted but subject to stringent conditions to maintain specified resource values. Development of roads in or across special RMZs will meet the management objectives stated in the LRMP. In the general RMZ the key objective is to maintain a wide range of resource uses, including resource development (BC ILMB 1996).

T.1.14 KISPIOX SUSTAINABLE RESOURCE MANAGEMENT PLAN

Also known as the Kispiox LRMP Higher Level Plan Objectives for Biodiversity, Visual Quality, and Wildlife, the Kispiox SRMP represents the functional interpretation of Kispiox LRMP objectives for biodiversity, wildlife, and visual quality under the new FRPA. The measurable and verifiable requirement of the FRPA is met through objectives, thresholds, and indicators for LRMO objectives. Threshold measures and indicators are provided in the SRMP for the following biodiversity objectives:

- maintain or enhance biodiversity
- maintain the current variety of plant and animal species at the landscape level for each major ecosystem
- maintain rare or threatened plant and animal species and communities
- maintain rare ecosystems and environmentally sensitive areas
- maintain deciduous ecosystems
- retain the structural diversity of managed forests (BC ILMB 2006b).

Scenic area objectives are to maintain visual quality in areas including: Highways 16 and 37 corridors, Babine River, Seven Sisters area, Kispiox River valley, Skeena River valley, Swan Lake area, Hazelton area, adjacent to Ross Lake and Seeley Lake Provincial Parks, BC Forest Service recreation sites and trails, and important

recreational fishing areas (BC ILMB 2006b). Recreation values, sites, and trails are discussed in Land and Resource Use (Section 23.0) and Visual quality is discussed in Section 22.0 of the Application for an EAC.

Wildlife management objectives for which thresholds and indicators are provided are to:

- maintain natural ecosystems and habitat to sustain viable populations of all native wildlife within their natural ranges
- protect or enhance populations and habitat of rare or endangered and regionally significant species
- maintain provincially significant scenic resources, backcountry recreation opportunities wildlife habitat, and extensive wetlands in the upper Sicintine and Shelagyote valleys.

Guiding principles to achieve these objectives include, but are not limited to:

- Access Management – road construction must minimize negative impacts on grizzly bear habitat and grizzly bear populations
- Manage access to minimize human-bear interactions
- Minimize disturbance to the migration patterns of mountain goats that use the higher elevation areas to move between northern and southern ranges (BC ILMB 2006b).

T.1.15 LAKES DISTRICT LAND AND RESOURCE MANAGEMENT PLAN

The Lakes District LRMP includes 53 RMZs. This includes 28 general zones (including five intensive timber management areas), four grizzly bear habitat areas, and 21 biological ecosystem networks. Portions of intensive timber management subzones and general RMZs are overlapped by the project footprint. It is the general management intent of the Lakes District LRMP to maintain opportunities and access for energy and mineral exploration, development, and transportation. Energy and mineral exploration and development activities will be integrated with other resource uses and activities, and conducted in an environmentally responsible manner using practices consistent with the resource management under the plan (BC ILMB 2000a).

T.1.16 LAKES NORTH SUSTAINABLE RESOURCES MANAGEMENT PLAN

Biodiversity objectives and strategies for resource management in the northern half of the Lakes Timber Supply Area in the Nadina Forest District are outlined in the Lakes North SRMP. The SRMP area includes seven landscape units encompassing 451,105 ha, of which approximately 404,556 ha is Crown forest land. Lakes North SRMP objectives apply to Crown forest land (excluding protected areas) and relate to

management of biodiversity values in forested ecosystems. The biodiversity values addressed in this plan relate to landscape level objectives that are consistent with the Lakes LRMP.

One of the main purposes of the SRMP is to manage the mountain pine beetle infestation which has killed most of the mature and old pine trees in the Lakes North plan area. Harvesting is nearly entirely driven by mountain pine beetle salvage objectives. The annual allowable cut in the Lakes Timber Supply Area has been more than doubled to allow for MPB management operations in the past, and accordingly, the number of forest licensees operating in the northern portion of the Lakes Timber Supply Area has increased.

An order establishes the following objectives of the SRMP as legal objectives: seral stage distribution, old growth forest retention, stand structure through wildlife tree retention, and connectivity. At the time of the SRMP publication, the following objectives are not established as legal objectives: patch size distribution, retention of wild young forest, and coniferous and deciduous tree species diversity. In addition to detailed objectives, the SRMP provides strategies for most to indicate the intent of how consistency with the objective could be best achieved (BC ILMB 2009b).

T.1.17 MACKENZIE LAND AND RESOURCE MANAGEMENT PLAN

The Mackenzie LRMP includes 10 RMZs, including three enhanced zones, three general zones, three agricultural/settlement zones, and one special zone. The intent of the Mackenzie LRMP is to provide direction for the sustainable management of land and resources on Crown lands. The plan provides greater certainty for resource-based industry and tourism operations by providing guidance for land and resource development (BC ILMB 2000b).

Enhanced zones recognize an emphasis on timber growth and use, with the recognition that mineral and oil and gas resource exploration and development may also benefit in this zone. There are fewer restrictions on industrial development and a permanent and more intensive access network is allowed. There may be small areas with restrictions where there may be special values with respect to wildlife and wildlife habitat, fish and fish habitat, heritage and culture, and scenic areas and recreation.

General zones emphasize both extractive and non-extractive uses across the zone that may shift from time to time on specific areas. There may be more restrictions than in enhanced zones to address specific concerns. A permanent access network applies in the zone, although there may some restrictions for specific areas.

Special zones recognize an emphasis on identified non-extractive values with respect to wildlife and wildlife habitat, fish and fish habitat, heritage and culture, or scenic areas and recreation. Opportunities for commercial and industrial activities (timber, mineral and oil and gas development) are allowable while managing to maintain the identified special values. There most likely will be areas with restrictions where there are special values. Within the project footprint, the special RMZ 41: Nation River is overlapped, in addition to five other RMZs and two RMZ subzones. Specific policies and objectives may apply in this area.

T.1.18 MORICE LAND AND RESOURCE MANAGEMENT PLAN

The Morice LRMP includes 91 RMZs, including general management direction areas, area specific management zones, non-motorized access trails, identified scenic areas, high biodiversity management areas, general forested areas, caribou habitat management areas, and grizzly bear management areas. Portions of general RMZs (resource use) and area specific (resource use) RMZs are overlapped by the project footprint. General management direction applies to all areas and includes best practices for various land use values. In the case of energy-related development, the objective is to apply principles that respect other perspectives while limiting environmental effects (BC ILMB 2007).

T.1.19 MUGAHA MARSH SENSITIVE AREA PLAN

A total of 612 ha of Crown forest land in the Mugaha and Tutu Creek watersheds are established as a sensitive area pursuant to the Forest Practices Code of BC Act. During management planning for the Mackenzie Timber Supply Area and LRMP, the Mugaha Marsh was identified for its significant wildlife habitat, particularly birds, and wildlife viewing opportunities. The Mackenzie LRMP echoes this management priority through the establishment of the parsnip RMZ and its objective to maintain habitat needs of wildlife species (BC ILMB 2001).

Established sensitive area objectives, and associated strategies which provide recommendations for achieving objectives, aim to:

- maintain current forest and wetland habitat
- allow for wildlife monitoring and research that does not conflict with objectives
- maintain current recreational uses and opportunities
- provide for the safety of area users (BC ILMB 2001).

T.1.20 NASS SOUTH SUSTAINABLE RESOURCE MANAGEMENT PLAN

The Nass South SRMP includes 221 RMZs and other relevant areas, including moose winter ranges, ecosystem management areas, habitats, and watersheds. The development of this plan has been guided by the following principles:

- Aboriginal rights and treaty rights will not be unjustifiably infringed upon by resource development activities of the Crown or by licensees.
- The Crown and licensees are legally obligated to consider treaty rights and potential existing Aboriginal rights in decision-making processes that could affect those rights.
- Consultation with Nisga'a Lisims Government will proceed consistent with the Nisga'a Final Agreement.
- Consultation with the Gitanyow will proceed consistent with provincial government policy.

There are no specific restrictions related to this plan; however, development of the area should be guided by the principles defined above (MFLNRO 2012b). Aboriginal rights and treaty rights are discussed in Part C of the EAC Application.

T.1.21 PEACE MOBERLY TRACT SUSTAINABLE RESOURCE MANAGEMENT PLAN

The Peace Moberly Tract (PMT) is an area of land approximately 1090 km² between Moberly Lake and the Peace River. The PMT lies within the Area of Critical Community Interest (ACCI). The Saulteau First Nations and the West Moberly First Nations have identified this largely forested area to be of special interest. Protected areas and private land are not included under the plans management directives as they are addressed under other processes. The PMT provides opportunities for forestry, oil and gas, and agricultural development, and provides residents with easy access for cultural activities and for hunting, trapping, and fishing. Goals for the area include:

- healthy ecosystems and populations of fish and wildlife
- opportunities for Aboriginal groups to exercise their treaty rights and cultural practices
- sustainable development in the forestry, oil and gas, mining, agriculture, range, tourism, and public recreation sectors.

Management recommendations related to terrestrial ecosystems, fish and wildlife, access, Aboriginal groups, timber and range, and oil and gas included in the PMT SRMP are not legally enforceable; however, recommendations are expected to inform policy development by implementing agencies (BC ILMB 2006c).

Direction in the PMT SRMP is consistent with the Dawson Creek LRMP; there are four resource management zones (RMZs) directly relevant to the PMT: the Peace-Boudreau Protected Area, the Major River Corridors Resource Management Zone (Moberly River Subzone), the South Peace Resource Management Zone, and the Plateau Resource Management Zone. Additionally, there are three local government land use plans that encompass parts of the PMT area: the Peace River Regional District Rural Community Plan, the North Peace Fringe Area Official Community Plan (OCP), and the District of Hudson's Hope OCP. Local government councils express objectives and policies for future development through these plans (BC ILMB 2006c).

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Appendix T-2 Summary of Recreational Sites (table)

Table T-2-1: Summary of Recreational Sites Identified within the Land and Resource Use Local and Regional Assessment Areas

Recreation Site Name	Closest Town	Activities ¹
Dolphin Lake	Fort St. James	Camping, viewing, canoeing, fishing (especially rainbow trout)
Philip Lakes	Mackenzie	Camping, hunting, canoeing
Lower Nation falls	Mackenzie	Picnicking, camping, hiking, fishing (river)
Cripple Lake	Fort St. James	Camping, hunting, angling
Elizabeth Lake	Hazelton	Wildlife viewing, swimming and bathing, hunting, fishing, camping
Pentz Lake	Hazelton	Camping, wildlife viewing, beach activities, picnicking, swimming, canoeing
Little Fish Lake	Hazelton	Wildlife viewing, hunting, camping, angling (cutthroat trout)
Upper Kispiox River	Hazelton	Viewing, canoeing, picnicking, camping
Sweetin River	Hazelton	Camping, hunting, picnicking
Suskwa River	Hazelton	Canoeing, camping, climbing, fishing (river)
Mitten Lake	Hazelton	Wildlife viewing, hunting, boating, camping, angling (cutthroat and rainbow trout), canoeing
Inzana Lake	Fort St. James	Camping, snowmobiling, viewing
Kalder Lake	Fort St. James	Camping, hunting, angling
Dem Lake	Fort St. James	Camping, viewing, canoeing
Philip Creek	Mackenzie	Hunting, angling, nature study
Trappers Cabin	Hudson Hope	Picnicking, hiking
Derrick Lake	Stewart	Fishing (cutthroat trout), wildlife viewing, canoeing, nature study
Bonus Lake	Stewart	Camping, viewing, canoeing
Hudson Hope Steam Vents	Fort St. John	Hiking, multi-use trail (snowmobiling, cross-country skiing, ATV riding, horseback riding, mountain bike riding, hiking)

Notes: ¹More structures, amenities, or activities may be available on site than listed.

Source: Data BC. 2008. Recreation Points

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Appendix T-3 Hunting Seasons, Bag Limits, and Harvest Statistics

Table T-3-1: Summary of Open Seasons and Bag Limits for Skeena Region 6 Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	6-8	Sept 10 – Sept 30, Oct 20 – Nov 30, Oct 1 – Oct 19	1	6-9	Sept 10 – Sept 30, Oct 1 – Oct 19	1	6-11	Sept 10 – Nov 30	1
White-tailed deer		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1
Moose		Oct 20 – Oct 26	1		Oct 20 – Oct 26	1		Oct 20 – Oct 26	1
Black bear		Apr 1 – June 30, Sept 1 – Nov 30	2		Apr 1 – June 30 Sept 1 – Nov 30	2		Apr 1 – June 30 Sept 1 – Nov 30	2
Mountain goat		–	–		Aug 1 – Nov 15	1		Aug 1 – Nov 15	1
Wolf		Aug 1 – June 15	3		Aug 1 – June 15	3		Aug 1 – June 15	3
Cougar		Sept 10 – Apr 30	1		Sept 10 – Apr 30	1		Sept 10 – Apr 30	1
Coyote		Sept 1 – Mar 31	10		Sept 1 – Mar 31	10		Sept 1 – Mar 31	10
Wolverine		Sept 15 – Jan 15	1		Sept 15 – Jan 15	1		Sept 15 – Jan 15	1
Lynx		Nov 15 – Feb 15	1		Nov 15 – Feb 15	1		–	–
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Grouse (dusky, ruffed, and spruce)		Sept 10 – Nov 15	10			10		Sept 10 – Nov 15	10
Ptarmigan		Aug 15 – Feb 28	10			10		Aug 15 – Feb 28	10
Coots		Sept 1 – Sept 6, Sept 9 – Nov 30	10 each			10 each		Oct 1 – Jan 13	10 each
Ducks		Sept 1 – Sept 6, Sept 9 – Nov 30	8			8		Oct 1 – Jan 13	8
Snow, Ross's, and white-fronted geese	Sept 1 – Sept 6, Sept 9 – Nov 30	5		5	Oct 1 – Jan 13	5			
Canada and cackling geese	Sept 1 – Sept 6, Sept 9 – Nov 30	10		10	Oct 1 – Jan 13	10			

Table T-3-1: Summary of Open Seasons and Bag Limits for Skeena Region 6 Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014 (cont'd)

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	6-14	Sept 10 – Nov 30	1	6-15	Sept 10 – Nov 30	1	6-16	–	–
White-tailed deer		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1		–	–
Moose		–	–		Oct 20 – Oct 26	1		–	–
Black bear		Apr 1 – June 30, Sept 1 – Nov 30	2		Apr 1 – June 30, Sept 1 – Nov 30	2		Apr 1 – June 30, Sept 1 – Nov 30	2
Mountain goat		Aug 1 – Nov 15	1		–	–		Aug 1 – Nov 15	1
Wolf		Aug 1 – June 15	3		Aug 1 – June 15	3		Aug 1 – June 15	3
Cougar		–	–		–	–		–	–
Coyote		Sept 1 – Mar 31	10		Sept 1 – Mar 31	10		Sept 1 – Mar 31	10
Wolverine		Sept 15 – Jan 15	1		Sept 15 – Jan 15	1		Sept 15 – Jan 15	1
Lynx		-	-		Nov 15 – Feb 15	1		Nov 15 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Grouse (dusky, ruffed, and spruce)		Sept 10 – Nov 15	10		Sept 10 – Nov 15	10		Sept 10 – Nov 15	10
Ptarmigan		Aug 15 – Feb 28	10		Aug 15 – Feb 28	10		Aug 15 – Feb 28	10
Coots		Oct 1 – Jan 13	10 each		Sept 1 – Sept 6, Sept 9 – Nov 30	10 each		Sept 1 – Sept 6, Sept 9 – Nov 30	10 each
Ducks		Oct 1 – Jan 13	8		Sept 1 – Sept 6, Sept 9 – Nov 30	8		Sept 1 – Sept 6, Sept 9 – Nov 30	8
Snow, Ross's, and white fronted geese	Oct 1 – Jan 13	5	Sept 1 – Sept 6, Sept 9 – Nov 30	5	Sept 1 – Sept 6, Sept 9 – Nov 30	5			
Canada and cackling geese	Oct 1 – Jan 13	10	Sept 1 – Sept 6, Sept 9 – Nov 30	10	Sept 1 – Sept 6, Sept 9 – Nov 30	10			

Table T-3-1: Summary of Open Seasons and Bag Limits for Skeena Region 6 Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014 (cont'd)

Species	WMU	Open Season	Bag Limit
Mule deer	6-30	Sept 10 – Sept 30, Oct 1 – Oct 19, Oct 20 – Nov 30	1
White-tailed deer		Sept 10 – Nov 30	1
Moose		Oct 20 – Oct 26	1
Black bear		Apr 1 – June 30, Sept 1 – Nov 30	2
Mountain goat		Aug 1 – Nov 15	1
Wolf		Aug 1 – June 15	3
Cougar		–	–
Coyote		Sept 1 – Mar 31	10
Wolverine		Sept 15 – Jan 15	1
Lynx		Nov 15 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)
Grouse (dusky, ruffed, and spruce)		Sept 10 – Nov 15	10
Ptarmigan		Aug 15 – Feb 28	10
Coots		Sept 1 – Sept 6, Sept 9 – Nov 30	10 each
Ducks		Sept 1 – Sept 6, Sept 9 – Nov 30	8
Snow, Ross's, and white-fronted geese		Sept 1 – Sept 6, Sept 9 – Nov 30	5
Canada and cackling geese		Sept 1 – Sept 6, Sept 9 – Nov 30	10

Notes: The same 17 WMUs are overlapped by each the project footprint and LAA and thus are discussed together.

NBL = No bag limit.

Source: Modified from MFLNRO 2013b.

Table T-3-2: Summary of Open Seasons and Bag Limits for Omineca Region 7a Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	7-25	Sept 10 – Nov 15	1	7-26	Sept 10 – Nov 20	1
White-tailed deer		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1
Moose		Sept 10 – Nov 5	1		Sept 10 – Nov 5	1
Elk		Sept 10 – Oct 9	1		Sept 10 – Oct 9	1
Mountain goat		–			–	
Black bear		Apr 1 – June 15, Aug 15 – Nov 15	2		Apr 1 – June 30, Sept 1 – Nov 30	2
Wolf		Aug 1 – June 15	NBL		Aug 1 – June 15	NBL
Cougar		Sept 10 – Mar 31	2		–	
Coyote		Sept 1 – Mar 31	NBL		Sept 1 – Mar 31	NBL
Lynx		Nov 1 – Feb 15	1		Nov 1 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Columbian ground squirrel		No closed season	NBL		No closed season	NBL
Spruce and ruffed grouse		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)
Coots, common snipe		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each
Dusky grouse		–			–	
Ducks		Sept 1 – Sept 6, Sept 16 – Nov 30	8		Sept 1 – Sept 6, Sept 16 – Nov 30	8
Ptarmigan		–			–	
Snow, Ross's, and white-fronted geese		Sept 1 – Sept 6, Sept 16 – Nov 30	5		Oct 1 – Jan 13	5
Canada and cackling geese		Sept 1 – Sept 6, Sept 16 – Nov 30	10		Oct 1 – Jan 13	10

Table T-3-2: Summary of Open Seasons and Bag Limits for Omineca Region 7a Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014 (cont'd)

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	7-27	Sept 10 – Nov 20	1	7-28	Sept 10 – Nov 20	1	7-29	Sept 10 – Nov 20	1
White-tailed deer		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1		Sept 10 – Nov 30	1
Moose		Sept 10 – Nov 5	1		Sept 10 – Nov 5	1		Sept 10 – Nov 5	1
Elk		Sept 10 – Oct 9	1		Sept 10 – Oct 9	1		Sept 10 – Oct 9	1
Mountain goat		Aug 15 – Nov 15	1		Aug 15 – Nov 15	1		Aug 15 – Nov 15	1
Black bear		Apr 1 – June 30, Sept 1 – Nov 30	2		Apr 1 – June 30, Sept 1 – Nov 30	2		Apr 1 – June 30, Sept 1 – Nov 30	2
Wolf		Aug 1 – June 15	NBL		Aug 1 – June 15	NBL		Aug 1 – June 15	NBL
Cougar		–			–			–	
Coyote		Sept 1 – Mar 31	NBL		Sept 1 – Mar 31	NBL		Sept 1 – Mar 31	NBL
Lynx		Nov 1 – Feb 15	1		Nov 1 – Feb 15	1		Nov 1 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Columbian ground squirrel		No closed season	NBL		No closed season	NBL		No closed season	NBL
Spruce and ruffed grouse		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)
Coots, common snipe		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each
Dusky grouse		Sept 1 – Nov 15	10		Sept 1 – Nov 15	10		–	
Ducks		Sept 1 – Sept 6, Sept 16 – Nov 30	8		Sept 1 – Sept 6, Sept 16 – Nov 30	8		Sept 1 – Sept 6, Sept 16 – Nov 30	8
Ptarmigan		Aug 15 – Feb 28	10		Aug 15 – Feb 28	10		Aug 15 – Feb 28	10
Snow, Ross's, and white-fronted geese		Oct 1 – Jan 13	5		Oct 1 – Jan 13	5		Oct 1 – Jan 13	5
Canada and cackling geese		Oct 1 – Jan 13	10		Oct 1 – Jan 13	10		Oct 1 – Jan 13	10

Table T-3-2: Summary of Open Seasons and Bag Limits for Omineca Region 7a Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014 (cont'd)

Species	WMU	Open Season	Bag Limit
Mule deer	7-30	Sept 10 – Nov 20	1
White-tailed deer		Sept 10 – Nov 30	1
Moose		Sept 10 – Nov 5	1
Elk		Sept 10 – Oct 9	1
Mountain goat		Aug 15 – Nov 15	1
Black bear		Apr 1 – June 30, Sept 1 – Nov 30	2
Wolf		Aug 1 – June 15	NBL
Cougar		–	–
Coyote		Sept 1 – Mar 31	NBL
Lynx		Nov 1 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)
Columbian ground squirrel		No closed season	NBL
Spruce and ruffed grouse		Sept 1 – Nov 15	10 (daily)
Coots, common snipe		Sept 1 – Sept 13, Sept 16 – Nov 30	10 each
Dusky grouse		Sept 1 – Nov 15	10
Ducks		Sept 1 – Sept 6, Sept 16 – Nov 30	8
Ptarmigan		Aug 15 – Feb 28	10
Snow, Ross's, and white-fronted geese		–	–
Canada and cackling geese		–	–

Notes:

The same 17 WMUs are overlapped by each the project footprint and LAA and thus are discussed together.

NBL = No bag limit.

Source: Modified from MFLNRO 2013b.

Table T-3-3: Summary of Open Seasons and Bag Limits for Peace Region 7b Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	7-22	Nov 1 – Nov 30	1	7-31	Nov 1 – Nov 30	1
White-tailed deer		Sept 1 – 9 and Sept 10 – Nov 30	2		Sept 1 – 9 and Sept 10 – Nov 30	1
Moose		Aug 15 - Oct 31	1		Aug 15 –Oct 31	1
Elk		Sept 1 – Oct 31	1		Sept 1 – Oct 31	1
Thinhorn mountain sheep		–	–		–	–
Mountain goat		–	–		–	–
Black bear		Aug 15 – Nov 15, Apr 1 – June 15	2		Aug 15 – Nov 15, Apr 1 – June 15	2
Wolf		Aug 1 – Mar 31, Apr 1 – June 15	3		Aug 1 – Mar 31, Apr 1 – June 15	3
Cougar		Sept 10 – Mar 31	1		Sept 10 – Mar 31	1
Coyote		Sept 1 – Mar 31	NBL		Sept 1 – Mar 31	NBL
Wolverine		Oct 15 – Jan 15	1		Oct 15 – Jan 15	1
Lynx		Nov 1 – Feb 15	1		Nov 1 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Dusky grouse		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)
Spruce and ruffed grouse		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)
Sharp-tailed grouse		Sept 1 – Nov 15	3 (daily)		-	-
Raven		No closed Season	5			
Ptarmigan		Aug 15 – Feb 28	10 (daily)		Aug 15 – Feb 28	10 (daily)
Coots, common snipe		Sept 3 – Nov 30	10 each		Sept 3 – Nov 30	10 each
Ducks		Sept 3 – Nov 30	8		Sept 3 – Nov 30	8
Snow and Ross's geese	Sept 3 – Nov 30	5	Sept 3 – Nov 30	5		
White-fronted geese	Sept 3 – Nov 30	5	Sept 3 – Nov 30	5		
Canada and cackling geese	Sept 3 – Nov 30	10	Sept 3 – Nov 30	10		

Table T-3-3: Summary of Open Seasons and Bag Limits for Peace Region 7b Wildlife Management Units in the Project Footprint and Local Assessment Area, 2012-2014 (cont'd)

Species	WMU	Open Season	Bag Limit	WMU	Open Season	Bag Limit
Mule deer	7-32	Sept 1 – 30 and Nov 1 - Nov 30	1	7-35	Sept 1 – 30 and Nov 1 - Nov 30	1
White-tailed deer		Sept 1 – 9 and Sept 10 – Nov 30	1		Sept 1 – 9 and Sept 10 – Nov 30	1
Moose		Aug 15 – Sept 30, Oct 16 – Oct 31	1		Aug 15 – Sept 30, Oct 16 – Oct 31	1
Elk		Sept 1 – Oct 31	1		Sept 1 – Oct 31	1
Thinhorn mountain sheep		–	–		–	–
Mountain goat		–	–		–	–
Black bear		Aug 15 – Nov 15 , Apr 1 – June 15	2		Aug 15 – Nov 15, Apr 1 – June 15	2
Wolf		Aug 1 – Mar 31, Apr 1 – June 15	3		Aug 1 – Mar 31, Apr 1 – June 15	3
Cougar		Sept 10 – Mar 31	1		Sept 10 – Mar 31	1
Coyote		Sept 1 – Mar 31	NBL		Sept 1 – Mar 31	NBL
Wolverine		Oct 15 – Jan 15	1		Oct 15 – Jan 15	1
Lynx		Nov 1 – Feb 15	1		Nov 1 – Feb 15	1
Snowshoe hare		Aug 1 – Apr 30	10 (daily)		Aug 1 – Apr 30	10 (daily)
Dusky grouse		-			-	
Spruce and ruffed grouse		Sept 1 – Nov 15	10 (daily)		Sept 1 – Nov 15	10 (daily)
Sharp-tailed grouse		Sept 1 – Nov 15	3 (daily)		Sept 1 – Nov 15	3 (daily)
Raven		No closed Season	5		No closed Season	5
Ptarmigan	-		-			
Coots, common snipe	Sept 3 – Nov 30	10 each	Sept 3 – Nov 30	10 each		
Ducks	Sept 3 – Nov 30	8	Sept 3 – Nov 30	8		
Snow and Ross's geese	Sept 3 – Nov 30	5	Sept 3 – Nov 30	5		
White-fronted geese	Sept 3 – Nov 30	5	Sept 3 – Nov 30	5		
Canada and cackling geese	Sept 3 – Nov 30	10	Sept 3 – Nov 30	10		

Notes:

The same 17 WMUs are overlapped by each the project footprint and LAA and thus are discussed together.

NBL = No bag limit.

Source: Modified from MFLNRO 2013b.

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Skeena Region 6	6-8	Mule deer	486	3424	22	3	38	0
		White-tailed deer	110	851	19	1	15	0
		Moose	710	3653	148	52	265	37
		Goat	17	43	2	8	47	7
		Black bear	124	816	48	39	271	37
		Grizzly bear	20	114	2	6	38	3
		Cougar	-	-	-	1	15	0
		Wolf	102	612	45	48	403	5
	6-9	Mule deer	533	3071	50	2	19	0
		White-tailed deer	167	1342	0	1	12	0
		Moose	791	4312	153	51	327	15
		Black bear	167	1007	49	42	242	35
		Caribou	-	-	-	1	2	0
		Goat	68	266	14	16	79	13
		Sheep	-	-	-	1	15	0
Grizzly bear	6	21	3	7	39	3		

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Skeena Region 6	6-11	Mule deer	46	168	24	-	-	-
		White-tailed deer	12	102	0	-	-	-
		Moose	59	224	17	-	-	-
		Black bear	19	114	0	1	12	0
		Grizzly bear	5	48	1	1	7	1
		Goat	2	40	0	2	6	2
		Wolf	12	60	0	-	-	-
	6-14	Mule deer	30	105	8	-	-	-
		Moose	24	128	11	-	-	-
		Goat	9	32	3	4	23	4
		Wolf	12	12	12	-	-	-
		Black bear	5	25	5	11	41	11
		Grizzly bear	2	6	0	1	2	2
	6-15	Mule deer	58	207	6	-	-	-
		White-tailed deer	37	204	0	-	-	-
		Moose	220	975	60	-	-	-
		Goat	37	161	13	2	10	4
		Black bear	62	368	20	1	2	2
		Grizzly bear	24	153	1	2	16	1
		Wolf	49	3005	37	0	0	0
	6-16	Grizzly bear	22	118	6	4	21	3
		Black bear	6	12	6	5	23	6
		Goat	-	-	-	1	5	2

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Skeena Region 6	6-30	Mule deer	67	551	8	-	-	-
		White-tailed deer	12	12	0	-	-	-
		Moose	178	1937	31	3	10	2
		Goat	5	15	1	3	11	2
		Black bear	44	232	32	7	51	6
		Grizzly bear	15	85	4	3	17	1
		Wolf	-	-	-	5	39	0
Omineca Region 7 Zone A	7-25	Elk	30	186	2	-	-	-
		Mule deer	90	90	90	-	-	-
		White-tailed deer	26	303	0	-	-	-
		Moose	426	3275	59	23	175	10
		Black bear	22	235	0	31	154	24
		Wolf	26	156	0	14	114	0
		Grizzly bear	5	25	1	-	-	-
	7-26	Elk	6	51	0	-	-	-
		Mule deer	40	251	0	-	-	-
		White-tailed deer	17	128	0	-	-	-
		Moose	394	3415	132	20	167	7
		Black bear	23	161	0	36	202	29
		Grizzly bear	-	-	-	3	26	1
		Wolf	39	416	12	20	164	1

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Omineca Region 7 Zone A	7-27	Elk	4	34	2	-	-	-
		Mule deer	34	297	0	-	-	-
		White-tailed deer	18	198	0	-	-	-
		Moose	188	1494	40	10	69	3
		Goat	7	21	0	6	30	4
		Black bear	15	90	10	15	104	14
		Grizzly bear	18	133	1	3	18	2
		Wolf	10	70	0	10	82	0
	7-28	Elk	6	36	0	-	-	-
		Mule deer	18	126	0	-	-	-
		White-tailed deer	27	250	0	-	-	-
		Moose	385	3006	101	4	18	4
		Goat	2	2	0	0	0	0
		Wolf	10	70	0	1	6	0
		Black bear	60	348	37	3	16	2
		Grizzly bear	38	216	4	1	10	0

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Omineca Region 7 Zone A	7-29	Elk	12	100	3	-	-	-
		Mule deer	59	624	0	-	-	-
		White-tailed deer	21	287	0	-	-	-
		Moose	266	2524	55	-	-	-
		Grizzly bear	2	58	0	-	-	-
		Black bear	11	83	5	-	-	-
		Wolf	10	20	0	-	-	-
	7-30	Elk	49	444	8	-	-	-
		Mule deer	28	336	0	-	-	-
		White-tailed deer	38	472	10	-	-	-
		Moose	163	1937	22	-	-	-
		Black bear	22	336	0	-	-	-
		Wolf	41	192	21	-	-	-
		Grizzly bear	2	14	1	-	-	-

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Peace Region 7 Zone B	7-22	Elk	133	900	15	3	28	1
		Mule deer	62	709	0	-	-	-
		White-tailed deer	73	672	13	4	25	1
		Moose	157	1123	21	1	15	0
		Black bear	36	168	13	1	6	1
		Goat	-	-	4	-	-	-
		Grizzly bear	2	12	1	1	4	1
	7-31	Elk	155	1011	15	3	35	0
		Mule deer	40	136	8	3	25	0
		White-tailed deer	88	1085	8	3	19	2
		Moose	230	1463	40	5	66	2
		Goat	8	42	0	0	0	0
		Black bear	65	431	30	5	35	7
		Grizzly bear	-	-	-	2	25	0
		Cougar	-	-	1	-	-	-
Wolf	25	613	15	6	76	1		

Table T-3-4: Hunting Harvest Statistics for Wildlife Management Units Overlapping the Project Footprint and Local Assessment Area, 2011 (resident and non-resident) (cont'd)

Region	Management Unit	Species	Resident Hunters			Non-Resident Hunters		
			Total Hunters	Total Hunter Days	Total Kills	Total Hunters	Total Hunter Days	Total Kills
Peace Region 7 Zone B (cont'd)	7-32	Elk	1258	8688	342	6	34	2
		Mule deer	357	2664	75	6	34	2
		White-tailed deer	415	3042	127	31	206	14
		Moose	880	6625	234	1	6	0
		Cougar	2	8	0	-	-	-
		Black bear	133	1165	36	3	11	3
		Wolf	68	323	0	4	27	3
	7-35	Elk	414	3056	81	21	115	4
		Mule deer	140	640	24	10	24	3
		White-tailed deer	196	1308	41	11	37	1
		Moose	303	2174	48	11	37	3
		Wolf	47	203	0	5	13	2
		Black bear	53	265	0	11	31	7
		Grizzly bear	3	6	0	2	9	1
Cougar	10	57	1	-	-	-		

Notes:

The same 17 WMUs are overlapped by each the project footprint and LAA and thus are discussed together.

Source: MFLNRO 2013c.

Table T-3-5: Migratory Bird Hunting Open Seasons in British Columbia

District	Ducks and Geese Waterfowler Heritage Days	Ducks, Coots and Snipe	Snow and Ross's Geese	Other Geese	Brant	Band-tailed Pigeons	Mourning Doves
6 - Skeena	Sept. 7 and 8, 2013	Sept. 1 to Sept. 6 and Sept. 9 to Nov. 30, 2013 ^a Oct. 1, 2013, to Jan. 13, 2014 ^b	Sept. 1 to Sept. 6 ^a and Sept. 9 to Nov. 30, 2013 ^a Oct. 1, 2013, to Jan. 13, 2014 ^b	Sept. 1 to Sept. 6 and Sept. 9 to Nov. 30, 2013 ^a Oct. 1, 2013, to Jan. 13, 2014 ^b	No open season		
7- Omineca and Peace	Sept. 1 and Sept. 2, 2013 ^c Sept. 14 and Sept. 15, 2013 ^d	Sept. 3 to Nov. 30, 2013 ^c Sept. 1 to Sept. 13, 2013 (d) and Sept. 16 to Nov. 30, 2013 ^d	Sept. 3 to Nov. 30, 2013 ^c Sept. 1 to Sept. 13, 2013 ^d and Sept. 16 to Nov. 30, 2013 ^d	Sept. 3 to Nov. 30, 2013 ^c Sept. 1 to Sept. 13, 2013 ^d and Sept. 16 to Nov. 30, 2013 ^d	No open season		

Notes:

^a Provincial Management Units 6-1, 6-2, 6-4 to 6-10 inclusive, and 6-15 to 6-30 inclusive.

^b Provincial Management Units 6-3, and 6-11 to 6-14 inclusive.

^c Provincial Management Units 7-19 to 7-22 inclusive, 7-31 to 7-36 inclusive, and 7-42 to 7-58 inclusive.

^d Provincial Management Units 7-2 to 7-18 inclusive, 7-23 to 7-30 inclusive, and 7-37 to 7-41 inclusive.

Source: Modified from EC 2013.

Table T-3-6: Estimated Migratory Bird Harvest for Canadians and Non-residents in BC (Zone 1) 2002 to 2012

		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Waterfowl												
Active Hunters	Estimate	2579	1807	1725	1734	1547	1632	1632	1529	1392	1821	1557
	Standard Error	102	79	79	83	68	93	84	82	73	123	114
Hunter Days	Estimate	15207	9549	8458	8953	7481	8989	7630	8700	6687	8903	7922
	Standard Error	843	629	608	617	521	697	525	815	567	726	744
Coot Harvest	Estimate	35	15	55	50	31	29	47	9	9	174	
	Standard Error	22	13	41	26	15	15	26	8	8	156	
Duck Harvest	Estimate	20008	11747	10679	13805	10190	10222	9290	10349	6929	12530	10400
	Standard Error	1760	947	1064	1659	862	1063	965	1385	694	1355	1098
Geese harvest	Estimate	7860	6121	5033	6404	5447	5808	4912	5573	3941	5214	8082
	Standard Error	807	638	454	751	643	502	557	763	424	586	1300
All Waterfowl Species Harvest	Estimate	27757	17868	15710	20208	15637	16030	14202	15922	10871	17744	18482
	Standard Error	2332	1320	1293	2147	1174	1308	1310	1735	965	1710	1975

Table T-3-6: Estimated Migratory Bird Harvest for Canadians and Non-residents in BC (Zone 1) 2002 to 2012 (cont'd)

		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Non-Waterfowl												
Active Hunters	Estimate	256	116	125	109	145	147	133	92	80	80	74
	Standard Error	39	29	27	21	23	26	28	22	21	24	20
Hunter Days	Estimate	1183	711	412	640	337	812	415	383	232	183	361
	Standard Error	225	246	130	226	68	256	117	154	110	69	137
Dove Harvest	Estimate	291	19	9	16	15	84	5	-	-	-	-
	Standard Error	246	16	8	14	13	44	5	-	-	-	-
Band-tailed Pigeon harvest	Estimate	104	34				80	5	-	-	-	-
	Standard Error	66	30	-	-	-	46	5	-	-	-	-
Rail Harvest	Estimate	291	-	-	-	-	-	-	-	-	-	-
	Standard Error	246	-	-			-	-	-	-	-	-
All non-Waterfowl Species Harvest	Estimate	838	125	153	115	76	286	79	38	38	9	202
	Standard Error	505	45	84	50	25	157	35	25	19	8	158

Notes:

Estimates are collected from only a sample of the individuals in the population, and a sample is not identical to the total population.

Standard error is a measure of the precision of an estimate and describes how much the estimate may differ from the unknown true population value.

Active Hunters: the estimated number of hunters who hunted migratory game birds.

Source: EC 2012a and 2012b.

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Appendix T-4 Trapping Seasons

Table T-4-1: Trapping Seasons for Regions 6, 7a, and 7b, 2012-2014

Species	Typical Season Dates		
	Region 6 Skeena	Region 7 ^a Omineca	Region 7 ^b Peace
Beaver	Oct 1 - May 31	Oct 1 - May 31	Oct 1 - May 31
Black bear (Quota = 2 per year)	Oct 1 - May 31 (except WMUs 6-3, 6-11 to 6-14 season is Oct 15 - May 15)	Sept 15 - May 31	Oct 1 - May 31
Bobcat	-	-	-
Coyote	Oct 15 - Mar 31	Oct 15 - Mar 31 ^a	Oct 15 - Mar 31 ^a
Fisher	Nov 1-Feb 15 Only for WMUs: 6-1 to 6-11, 6- 19 to 6-27	Nov 1-Feb 15 Only for WMUs: 7-5 to 7-58	Nov 1-Feb 15 Only for WMUs: 7-5 to 7-58
Fox	Oct 15 - Feb 28	Oct 15 - Feb 28	Oct 15 - Feb 28
Lynx	Nov 15 - Feb 15	Nov 1 - Feb 15	Nov 15 - Feb 15
Marten	Nov 1 - Feb 28	Nov 1 - Feb 28 (except WMUs 7-49 to 7-54 season is Nov 1 - Mar 15)	Nov 1 - Feb 28 (except WMUs 7-49 to 7-54 season is Nov 1 - Mar 15)
Mink	Nov 1 - Feb 28 (except WMUs 6-3, 6-11, 6-14 season is Nov 15 - Feb 15)	Nov 1 - Feb 15 (except WMUs 7-49 to 7-54 season is Oct 15 - Feb 15)	Nov 1 - Feb 15 (except WMUs 7-49 to 7-54 season is Oct 15 - Feb 15)
Muskrat	Oct 1 - May 31	Oct 1 - May 31	Oct 1 - May 31
Raccoon	Oct 1 - Mar 31; (Except WMUs 612, 6-13 season is Jan 1-Dec 31)	Oct 1 - Mar 31	Oct 1 - Mar 31
River otter	Oct 1 - May 31	Oct 1 - May 31	Oct 1 - May 31
Skunk	Oct 15 - Feb 28	Oct 15 - Feb 28	Oct 15 - Feb 28
Squirrel	Nov 1 - Mar 30	Nov 1 - Mar 30	Nov 1 - Mar 30
Weasel	Nov 1 - Feb 28 (except MUs 6-12, 6-13)	Nov 1 - Feb 28	Nov 1 - Feb 28
Wolverine	Nov 1 - Feb 28 (except WMUs 6-3, 6-11, 6-14 season is Nov 1-Feb 15)	Nov 1 - Feb 28	Nov 1 - Feb 28
Wolf	Oct 15 - Mar 31	Oct 15 - May 31 ^b	Oct 15 - May 31 ^b

Notes:

^a There is no closed season for coyote in MUs 7-19 to 7-22, 7-31 to 7-36, 7-42 to 7-58 below 1100 m elevation.

^b There is no closed season for wolf in MUs 7-19 to 7-22, 7-31 to 7-36, 7-42 to 7-58 below 1100 m elevation.

Source: MFLNRO 2013b.

Application for an Environmental Assessment Certificate

Appendix T-5 Freshwater and Marine Recreational Fishing Regulations and Marine Catch Statistics

Table T-5-1: General Freshwater Recreational Fishing Regulations for Regions 6 and 7a

Waters	Species	General Restrictions ¹	Daily Quota ²	Possession Quota ³
All Region 6 waters (lakes, streams, or part thereof)	Arctic grayling, burbot, inconnu, Kokanee, northern pike, whitefish, white sturgeon, trout/char	No fishing in any stream in: <ul style="list-style-type: none"> the watersheds of the Skeena River above Cedarvale or Nass River above Kitsault Bridge, Jan. 1 to June 15 (Nass River mainstem is exempt and Skeena River mainstem above Cedarvale is only closed Jan. 1 to May 31). the Iskut River watershed (upstream of Forest Kerr Canyon), April 1 to June 30; and in the Fraser River watershed in Region 6, April 1 to June 30. Single barbless hook must be used in all streams of Region 6, all year. Set lining for burbot is permitted in the lakes of Region 6. Bait ban (dates vary) on Babine, Bulkley, Cranberry, Kispiox, Kiteen, Kloiya, and Suskwa Rivers, Nilkitkwa Lake.	3	6
			5	10
			1	2
			10 (none from streams)	20
			5	10
			15 (all species combined)	30
			Catch and release only	n/a
			5, but not more than: <ul style="list-style-type: none"> one over 50 cm (includes hatchery steelhead in the Kitimat watershed) three Dolly Varden/bull trout and/or lake trout combined 1 trout from streams July 1-Oct 31. Must release: <ul style="list-style-type: none"> all Dolly Varden/bull trout from streams all year trout under 30 cm from any stream trout of any size from streams Nov 1-June 30 lake trout from Fraser and Skeena watersheds, Sept. 15 to Nov. 30 all wild steelhead 	10

Table T-5-1: General Freshwater Recreational Fishing Regulations for Regions 6 and 7a (cont'd)

Waters	Species	General Restrictions ¹	Daily Quota ²	Possession Quota ³
All Region 7a waters (lakes, streams, or part thereof)	Arctic grayling, burbot, Kokanee, whitefish, white sturgeon, trout/char	Set lining is only permitted in the lakes of Zone A Set lines are restricted to one line with a single hook with a gap of not less than 3 cm. no set lines in Hautete Lake no fishing (spring closure): in any stream of Zone A, Apr. 1 to June 30 No fishing in Hautete Lake Nov 1 to Apr 30 single barbless hook: must be used in all streams of Zone A, all year. bait ban: applies to all streams of Zone A, all year Williston Lake bait ban 500 m upstream and downstream of Causeway Road July 1 to Oct 30.	Catch and release only	n/a
			5	10
			10 (none from streams)	20
			15 (all species combined)	30
			Closed to all fishing	n/a
			5, but not more than: <ul style="list-style-type: none"> • one over 50 cm • two from streams • three lake trout • one bull trout (Dolly Varden). Bull trout may only be retained Oct. 16 to Aug. 14 and may only be taken from lakes and only 30 - 50 cm in length. Must release: <ul style="list-style-type: none"> • bull trout (Dolly Varden): from streams, all year, and from lakes, Aug. 15 to Oct. 15 • lake trout: of any size, Sept. 15 to Oct. 31 	lake trout possession quota = 1 daily quota bull trout possession quota = 1 daily quota

Notes:

¹ Various date restrictions apply to specific lakes, streams, and creeks. Further exceptions to regional Regulations should be referred to in the *Freshwater Fishing Regulations Synopsis* booklet.

² The maximum number of fish of a given species, group of species, or size class that you may keep in one calendar day.

³ No more than twice the daily quota unless otherwise specified.

Source: MFLNRO 2013d and 2013e.

Table T-5-2: General Saltwater Recreational Fishing Regulations for PFMA 3 and 4

Species	Minimum Size	Daily Limit ³	Possession Limit	Annual Limit	Season	Gear
Chinook ¹	45 cm	2	4	30	April 1 – March 31	Barbless Hook & Line. Note: only a single barbless hook may be used in the tidal portions of all streams.
Chum	30 cm	4	8	N/A	April 1 – March 31	
Coho	30 cm	4	8	N/A	April 1 – March 31	
Pink	30 cm	4	8	N/A	April 1 – March 31	
Sockeye²	30 cm	0	0	N/A	April 1 – March 31	
Halibut	126 cm	1	2	6	Not specified	Not specified
Rockfish	Not specified	5	Not specified	Not specified	Apr 1 – March 31	Hook, line, and spear

Notes:

¹All year: Daily Chinook quota is one (1) in the tidal portion of the Gingolx (Kincolith) River from the Gingolx Highway Bridge downstream to boundary signs located near the mouth.

²The daily limit for sockeye salmon is 0 until further notice. Originally posted July 12, 2013; current to August 28, 2013.

³ Combined daily limit for all salmon species from all waters: 4. Coast wide daily limit for Chinook: 2

Source: DFO 2013a, 2013b, 2013c, 2013d, 2013e.

Table T-5-3: Recreational Catch 2000-2012 in PFMA 3 and 4¹

Year	PFMA	Pink Salmon	Chum Salmon	Coho Salmon	Sockeye Salmon	Chinook Salmon	Rockfish Mixed	Lingcod	Halibut	Other Fish	Total
2000	3XY	302	125	561	11	1,980	42	575	-	-	3,596
	3 to 5 combined	-	-	-	-	-	-	-	13,520	-	13,520
	4	1,342	89	3,484	66	4,572	199	29	-	-	9,781
2001	3						4,548	1,407	7,121	26	13,102
	3 and 4 combined	2,996	349	14,027	153	10,807	-	-	-	-	28,332
	4	-	-	-	-	-	6,114	1,740	5,540	16	13,410
2002	3	-	-	-	-	-	8,961	3,338	-	319	12,618
	3 and 4 combined	1,847	130	20,257	21	7,868	-	-	-	-	30,123
	3 to 5 combined	-	-	-	-	-	-	-	13,572	-	13,572
2003	3	-	-	-	-	-	-	-	14,000	-	14,000
2004	3	-	-	-	-	561	-	-	-	-	561
	3 and 4 combined	-	-	-	-	-	-	-	13,410	-	13,410
2005	3 and 4 combined	-	-	-	-	-	-	-	13,680	-	13,680
2006	3 and 4 combined	-	-	18,862	-	1,410	-	-	24,975	-	45,247
2008	3 and 4 combined	-	-	34,215	-	11,970	12,204	4,552	24,947	-	87,888
2009	3 and 4 combined	-	-	40,324	-	9,177	6,649	2,986	12,842	-	71,978
	4	-	-	-	20,000	-	-	-	-	-	20,000
2010	3 to 5 combined	1,584	176	27,772	102	7,570	12,098	-	-	-	49,302
	4	3,248	-	1,771	1,981	2,689	-	-	-	-	9,689
2011	3 to 5 combined	3,503	183	32,046	160	14,677	-	-	15,265	-	65,834
	4	454	-	1,299	21,696	1,731	-	-	-	-	25,180
2012	3 to 5 combined	2,780	266	23,581	100	7,011	-	-	10,814	-	44,552
	4	199	-	1,191	18,978	403	-	-	-	-	20,771

Notes: 1PFMA 5 has been included in some instances where recreational catch data were only available as a combined figure.

Data for 2007 was not included.

DFO creel survey results. Exact numbers cannot be verified.

Source: DFO 2013f

Table T-5-4: Commercial Groundfish Effort Data 2000-2012 for PFMA 3

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (Minutes)	Number Sets
2000	1	Groundfish Trawl	Standard Bottom Trawl	8,577	72
2001	1	Groundfish Trawl	Standard Bottom Trawl	10,836	73
2001	0	Schedule II	Troll		4
2001	1	Schedule II	Troll		4
2001	0	ZN	Rod and Reel		1
2001	1	ZN	Longline		15
2001	1	ZN	Handline		8
2001	2	ZN	Longline		3
2001	10	ZN	Longline		
2002	1	Groundfish Trawl	Standard Bottom Trawl	11,573	89
2002	3	Sablefish	Trap		
2002	7	Sablefish	Trap		
2002	12	Sablefish	Trap		
2002	0	Schedule II	Longline		
2002	1	Schedule II	Troll		7
2002	1	Schedule II	Rod and Reel		15
2002	1	Schedule II	Handline		5
2002	1	ZN	Longline		19
2002	2	ZN	Longline		1
2003	1	Groundfish Trawl	Standard Bottom Trawl	8,886	69
2003	1	Groundfish Trawl	Midwater Trawl	220	1
2003	7	Sablefish	Trap		
2003	12	Sablefish	Trap		
2003	0	Schedule II	Troll		5
2003	0	Schedule II	Longline		74
2003	1	Schedule II	Troll		17
2003	0	ZN	Longline		2
2003	0	ZN	Handline		4
2003	1	ZN	Longline		5
2004	1	Groundfish Trawl	Standard Bottom Trawl	6,555	51
2004	3	Sablefish	Trap		
2004	7	Sablefish	Trap		
2004	12	Sablefish	Trap		
2004	1	Schedule II	Handline		4
2004	1	Schedule II	Longline		1
2004	1	Schedule II	Troll		3

Table T-5-4: Commercial Groundfish Effort Data 2000-2012 for PFMA 3 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (Minutes)	Number Sets
2004	1	Schedule II	Unknown		1
2004	0	ZN	Handline		4
2004	1	ZN	Longline		18
2004	1	ZN	Handline		9
2004	13	ZN	Unknown		1
2005	1	Groundfish Trawl	Standard Bottom Trawl	4,463	34
2005	1	Groundfish Trawl	Midwater Trawl	278	5
2005	0	Schedule II	Longline		21
2005	1	Schedule II	Troll		13
2005	0	ZN	Rod and Reel		6
2005	0	ZN	Handline		11
2005	1	ZN	Longline		5
2005	1	ZN	Handline		9
2006	1	Groundfish Trawl	Standard Bottom Trawl	7,500	55
2006	6	Groundfish Trawl	Midwater Trawl		
2006	1	Halibut	Longline hook gear		120
2006	2	Halibut	Longline hook gear		
2006	3	Halibut	Longline hook gear		19
2006	7	Halibut	Longline hook gear		31
2006	8	Halibut	Longline hook gear		
2006	9	Halibut	Longline hook gear		
2006	11	Halibut	Longline hook gear		
2006	12	Halibut	Longline hook gear		24
2006	13	Halibut	Longline hook gear		
2006	14	Halibut	Longline hook gear		
2006	17	Halibut	Longline hook gear		8
2006	1	Lingcod	Longline hook gear		
2006	1	Rockfish Outside	Longline hook gear		
2006	2	Rockfish Outside	Longline hook gear		
2006	4	Rockfish Outside	Longline hook gear		
2006	6	Rockfish Outside	Longline hook gear		
2006	1	Sablefish	Longline hook gear		
2006	3	Sablefish	Longline hook gear		
2006	3	Sablefish	Longline Trap gear		
2006	7	Sablefish	Longline hook gear		4
2006	7	Sablefish	Longline Trap gear		2
2006	12	Sablefish	Longline hook gear		

Table T-5-4: Commercial Groundfish Effort Data 2000-2012 for PFMA 3 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (Minutes)	Number Sets
2006	0	ZN	Handline		1
2006	1	ZN	Longline		4
2007	1	Groundfish Trawl	Unspecified trawl	384	5
2007	1	Groundfish Trawl	Midwater Trawl	1,433	15
2007	1	Groundfish Trawl	Bottom trawl	4,488	36
2007	1	Halibut	Longline hook gear		83
2007	3	Halibut	Longline hook gear		
2007	6	Halibut	Longline hook gear		
2007	7	Halibut	Longline hook gear		64
2007	8	Halibut	Longline hook gear		
2007	9	Halibut	Longline hook gear		
2007	11	Halibut	Longline hook gear		
2007	12	Halibut	Longline hook gear		34
2007	14	Halibut	Longline hook gear		
2007	15	Halibut	Longline hook gear		
2007	16	Halibut	Longline hook gear		
2007	1	Lingcod	Longline hook gear		
2007	3	Sablefish	Longline hook gear		
2008	1	Groundfish Trawl	Midwater Trawl	120	1
2008	1	Groundfish Trawl	Bottom trawl	5,015	37
2008	1	Halibut	Longline hook gear		66
2008	2	Halibut	Longline hook gear		3
2008	3	Halibut	Longline hook gear		8
2008	6	Halibut	Longline hook gear		
2008	7	Halibut	Longline hook gear		51
2008	8	Halibut	Longline hook gear		7
2008	9	Halibut	Longline hook gear		10
2008	10	Halibut	Longline hook gear		
2008	11	Halibut	Longline hook gear		
2008	12	Halibut	Longline hook gear		30
2008	13	Halibut	Longline hook gear		
2008	14	Halibut	Longline hook gear		
2008	15	Halibut	Longline hook gear		
2008	17	Halibut	Longline hook gear		
2008	1	Lingcod	Longline hook gear		
2008	1	Rockfish Outside	Longline hook gear		
2009	1	Groundfish Trawl	Unspecified trawl	202	3

Table T-5-4: Commercial Groundfish Effort Data 2000-2012 for PFMA 3 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (Minutes)	Number Sets
2009	1	Groundfish Trawl	Bottom trawl	3,427	25
2009	1	Halibut	Longline hook gear		62
2009	2	Halibut	Longline hook gear		
2009	3	Halibut	Longline hook gear		
2009	4	Halibut	Longline hook gear		
2009	6	Halibut	Longline hook gear		23
2009	7	Halibut	Longline hook gear		29
2009	8	Halibut	Longline hook gear		
2009	9	Halibut	Longline hook gear		16
2009	10	Halibut	Longline hook gear		
2009	11	Halibut	Longline hook gear		
2009	12	Halibut	Longline hook gear		14
2009	13	Halibut	Longline hook gear		6
2009	14	Halibut	Longline hook gear		
2009	15	Halibut	Longline hook gear		
2009	16	Halibut	Longline hook gear		
2009	17	Halibut	Longline hook gear		4
2009	1	Lingcod	Longline hook gear		
2009	1	Rockfish Outside	Longline hook gear		
2009	2	Rockfish Outside	Longline hook gear		
2010	1	Groundfish Trawl	Bottom trawl	6,612	49
2010	1	Halibut	Longline hook gear		98
2010	2	Halibut	Longline hook gear		
2010	3	Halibut	Longline hook gear		11
2010	6	Halibut	Longline hook gear		
2010	7	Halibut	Longline hook gear		11
2010	8	Halibut	Longline hook gear		
2010	9	Halibut	Longline hook gear		
2010	11	Halibut	Longline hook gear		
2010	12	Halibut	Longline hook gear		
2010	13	Halibut	Longline hook gear		9
2010	14	Halibut	Longline hook gear		
2010	15	Halibut	Longline hook gear		
2010	17	Halibut	Longline hook gear		7
2010	1	Lingcod	Longline hook gear		
2011	1	Groundfish Trawl	Midwater Trawl	155	1
2011	1	Groundfish Trawl	Bottom trawl	3,137	23

Table T-5-4: Commercial Groundfish Effort Data 2000-2012 for PFMA 3 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (Minutes)	Number Sets
2011	1	Halibut	Longline hook gear		45
2011	3	Halibut	Longline hook gear		23
2011	6	Halibut	Longline hook gear		
2011	7	Halibut	Longline hook gear		33
2011	8	Halibut	Longline hook gear		9
2011	9	Halibut	Longline hook gear		13
2011	12	Halibut	Longline hook gear		15
2011	13	Halibut	Longline hook gear		
2011	14	Halibut	Longline hook gear		
2011	15	Halibut	Longline hook gear		
2011	17	Halibut	Longline hook gear		
2011	1	Lingcod	Longline hook gear		
2011	1	Rockfish Outside	Longline hook gear		8
2012	1	Groundfish Trawl	Bottom trawl	6,130	36
2012	1	Halibut	Longline hook gear		62
2012	2	Halibut	Longline hook gear		
2012	3	Halibut	Longline hook gear		36
2012	4	Halibut	Longline hook gear		8
2012	6	Halibut	Longline hook gear		
2012	7	Halibut	Longline hook gear		30
2012	8	Halibut	Longline hook gear		9
2012	9	Halibut	Longline hook gear		9
2012	10	Halibut	Longline hook gear		
2012	11	Halibut	Longline hook gear		
2012	12	Halibut	Longline hook gear		
2012	13	Halibut	Longline hook gear		26
2012	15	Halibut	Longline hook gear		19
2012	17	Halibut	Longline hook gear		
2012	1	Lingcod	Longline hook gear		
2012	1	Rockfish Outside	Longline hook gear		

Notes:

Blank = Confidential Data Withheld

Source: DFO 2013g

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2000	1	Groundfish Trawl	Standard Bottom Trawl	1,651	16
2000	2	Groundfish Trawl	Standard Bottom Trawl		
2000	3	Groundfish Trawl	Standard Bottom Trawl		
2000	4	Groundfish Trawl	Standard Bottom Trawl		
2000	9	Groundfish Trawl	Standard Bottom Trawl		
2001	1	Groundfish Trawl	Standard Bottom Trawl	849	7
2001	5	Groundfish Trawl	Standard Bottom Trawl		
2001	9	Groundfish Trawl	Standard Bottom Trawl		
2001	12	Groundfish Trawl	Standard Bottom Trawl		
2001	1	Schedule II	Handline		10
2001	1	Schedule II	Troll		1
2001	2	Schedule II	Handline		12
2001	2	Schedule II	Troll		19
2001	3	Schedule II	Troll		
2001	12	Schedule II	Handline		3
2001	13	Schedule II	Handline		14
2001	0	ZN	Longline		50
2001	1	ZN	Handline		2
2001	1	ZN	Longline		9
2001	1	ZN	Rod and Reel		5
2001	2	ZN	Handline		10
2001	2	ZN	Longline		67
2001	2	ZN	Rod and Reel		3
2001	3	ZN	Longline		3
2001	4	ZN	Longline		5
2001	4	ZN	Rod and Reel		4
2001	5	ZN	Rod and Reel		5
2001	9	ZN	Handline		1
2001	9	ZN	Longline		39
2001	9	ZN	Rod and Reel		7
2001	11	ZN	Handline		
2001	13	ZN	Longline		3
2001	20	ZN	Longline		1
2002	1	Groundfish Trawl	Standard Bottom Trawl		
2002	5	Groundfish Trawl	Standard Bottom Trawl		
2002	12	Groundfish Trawl	Standard Bottom Trawl		
2002	1	Schedule II	Rod and Reel		3

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2002	1	Schedule II	Troll		1
2002	2	Schedule II	Handline		1
2002	2	Schedule II	Rod and Reel		2
2002	2	Schedule II	Troll		1
2002	5	Schedule II	Longline		
2002	9	Schedule II	Longline		
2002	19	Schedule II	Rod and Reel		
2002	0	ZN	Longline		43
2002	1	ZN	Handline		3
2002	1	ZN	Longline		28
2002	1	ZN	Rod and Reel		9
2002	2	ZN	Handline		12
2002	2	ZN	Longline		86
2002	2	ZN	Rod and Reel		42
2002	3	ZN	Longline		21
2002	4	ZN	Handline		17
2002	4	ZN	Longline		26
2002	4	ZN	Rod and Reel		31
2002	5	ZN	Handline		2
2002	5	ZN	Rod and Reel		6
2002	5	ZN	Troll		5
2002	9	ZN	Handline		12
2002	9	ZN	Longline		63
2002	9	ZN	Rod and Reel		22
2002	9	ZN	Troll		1
2002	12	ZN	Longline		3
2002	13	ZN	Longline		8
2003	1	Groundfish Trawl	Standard Bottom Trawl		
2003	9	Groundfish Trawl	Standard Bottom Trawl		
2003	0	Schedule II	Longline		92
2003	1	Schedule II	Troll		8
2003	2	Schedule II	Troll		9
2003	9	Schedule II	Troll		
2003	13	Schedule II	Longline		1
2003	13	Schedule II	Troll		1
2003	0	ZN	Longline		16
2003	1	ZN	Longline		20

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2003	1	ZN	Rod and Reel		21
2003	1	ZN	Unknown		2
2003	2	ZN	Longline		26
2003	2	ZN	Rod and Reel		14
2003	3	ZN	Longline		17
2003	4	ZN	Longline		30
2003	4	ZN	Rod and Reel		17
2003	5	ZN	Longline		15
2003	5	ZN	Rod and Reel		25
2003	9	ZN	Longline		42
2003	9	ZN	Rod and Reel		60
2003	12	ZN	Longline		7
2003	13	ZN	Longline		12
2004	1	Groundfish Trawl	Standard Bottom Trawl		
2004	1	Schedule II	Handline		3
2004	1	Schedule II	Rod and Reel		1
2004	1	Schedule II	Troll		24
2004	1	Schedule II	Unknown		2
2004	2	Schedule II	Handline		3
2004	2	Schedule II	Longline		1
2004	2	Schedule II	Troll		10
2004	2	Schedule II	Unknown		1
2004	3	Schedule II	Longline		
2004	5	Schedule II	Rod and Reel		1
2004	13	Schedule II	Longline		
2004	0	ZN	Handline		6
2004	0	ZN	Longline		13
2004	0	ZN	Rod and Reel		25
2004	0	ZN	Unknown		4
2004	1	ZN	Handline		4
2004	1	ZN	Longline		20
2004	1	ZN	Rod and Reel		23
2004	1	ZN	Unknown		19
2004	2	ZN	Longline		49
2004	2	ZN	Rod and Reel		28
2004	2	ZN	Unknown		8
2004	4	ZN	Longline		10

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2004	4	ZN	Rod and Reel		3
2004	5	ZN	Longline		15
2004	5	ZN	Rod and Reel		17
2004	5	ZN	Unknown		8
2004	9	ZN	Handline		5
2004	9	ZN	Longline		49
2004	9	ZN	Rod and Reel		18
2004	9	ZN	Unknown		9
2004	13	ZN	Longline		4
2004	13	ZN	Unknown		1
2005	1	Groundfish Trawl	Standard Bottom Trawl	2,652	32
2005	0	Schedule II	Handline		15
2005	0	Schedule II	Longline		1
2005	0	Schedule II	Rod and Reel		15
2005	0	Schedule II	Unknown		3
2005	1	Schedule II	Rod and Reel		3
2005	1	Schedule II	Troll		6
2005	2	Schedule II	Troll		14
2005	3	Schedule II	Handline		1
2005	3	Schedule II	Troll		2
2005	13	Schedule II	Troll		
2005	0	ZN	Handline		3
2005	0	ZN	Longline		40
2005	0	ZN	Rod and Reel		37
2005	0	ZN	Unknown		19
2005	1	ZN	Handline		15
2005	1	ZN	Longline		1
2005	1	ZN	Rod and Reel		9
2005	2	ZN	Handline		4
2005	2	ZN	Longline		11
2005	2	ZN	Rod and Reel		3
2005	3	ZN	Longline		2
2005	4	ZN	Longline		1
2005	5	ZN	Handline		3
2005	5	ZN	Longline		2
2005	5	ZN	Rod and Reel		3
2005	9	ZN	Longline		7

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2005	9	ZN	Rod and Reel		1
2006	1	Groundfish Trawl	Standard Bottom Trawl	4,756	59
2006	9	Groundfish Trawl	Midwater Trawl		
2006	12	Groundfish Trawl	Midwater Trawl		
2006	1	ZN	Handline		3
2006	1	ZN	Longline		1
2006	1	ZN	Rod and Reel		3
2006	2	ZN	Handline		1
2006	2	ZN	Longline		6
2006	4	ZN	Longline		1
2006	5	ZN	Handline		7
2006	5	ZN	Rod and Reel		2
2006	9	ZN	Longline		25
2006	9	ZN	Rod and Reel		7
2006	13	ZN	Longline		1
2006	1	Halibut	Longline hook gear		64
2006	2	Halibut	Longline hook gear		
2006	4	Halibut	Longline hook gear		
2006	5	Halibut	Longline hook gear		
2006	9	Halibut	Longline hook gear		23
2006	12	Halibut	Longline hook gear		12
2006	13	Halibut	Longline hook gear		
2006	15	Halibut	Longline hook gear		
2006	5	Halibut and Sablefish	Longline hook gear		
2006	9	Halibut and Sablefish	Longline hook gear		
2006	1	Lingcod	Longline hook gear		
2006	2	Lingcod	Longline hook gear		
2006	5	Lingcod	Longline hook gear		
2006	13	Lingcod	Longline hook gear		
2006	1	Rockfish Outside	Longline hook gear		
2006	2	Rockfish Outside	Longline hook gear		
2006	3	Rockfish Outside	Longline hook gear		
2006	5	Rockfish Outside	Longline hook gear		
2006	9	Rockfish Outside	Longline hook gear		
2006	13	Rockfish Outside	Longline hook gear		
2007	1	Groundfish Trawl	Standard Bottom Trawl	529	6

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2007	1	Groundfish Trawl	Midwater Trawl		
2007	1	Halibut	Longline hook gear		53
2007	2	Halibut	Longline hook gear		8
2007	3	Halibut	Longline hook gear		
2007	4	Halibut	Longline hook gear		
2007	5	Halibut	Longline hook gear		14
2007	9	Halibut	Longline hook gear		20
2007	12	Halibut	Longline hook gear		
2007	13	Halibut	Longline hook gear		14
2007	15	Halibut	Longline hook gear		
2007	1	Halibut and Sablefish	Longline hook gear		
2007	9	Halibut and Sablefish	Longline hook gear		
2007	13	Halibut and Sablefish	Longline hook gear		
2007	1	Lingcod	Longline hook gear		
2007	2	Lingcod	Longline hook gear		
2007	3	Lingcod	Longline hook gear		
2007	5	Lingcod	Longline hook gear		
2007	9	Lingcod	Longline hook gear		
2007	13	Lingcod	Longline hook gear		
2007	1	Rockfish Outside	Longline hook gear		61
2007	2	Rockfish Outside	Longline hook gear		19
2007	3	Rockfish Outside	Longline hook gear		
2007	5	Rockfish Outside	Longline hook gear		104
2007	9	Rockfish Outside	Longline hook gear		
2007	13	Rockfish Outside	Longline hook gear		
2008	1	Groundfish Trawl	Bottom Trawl		
2008	5	Groundfish Trawl	Bottom Trawl		
2008	9	Groundfish Trawl	Midwater Trawl		
2008	1	Halibut	Longline hook gear		34
2008	2	Halibut	Longline hook gear		9
2008	3	Halibut	Longline hook gear		
2008	4	Halibut	Longline hook gear		
2008	5	Halibut	Longline hook gear		13
2008	9	Halibut	Longline hook gear		46
2008	10	Halibut	Longline hook gear		

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2008	12	Halibut	Longline hook gear		27
2008	13	Halibut	Longline hook gear		14
2008	15	Halibut	Longline hook gear		
2008	1	Lingcod	Longline hook gear		
2008	2	Lingcod	Longline hook gear		
2008	3	Lingcod	Longline hook gear		
2008	9	Lingcod	Longline hook gear		
2008	13	Lingcod	Longline hook gear		
2008	1	Rockfish Outside	Longline hook gear		51
2008	2	Rockfish Outside	Longline hook gear		
2008	3	Rockfish Outside	Longline hook gear		
2008	4	Rockfish Outside	Longline hook gear		
2008	5	Rockfish Outside	Longline hook gear		48
2008	9	Rockfish Outside	Longline hook gear		24
2008	13	Rockfish Outside	Longline hook gear		
2009	1	Groundfish Trawl	Bottom Trawl		
2009	1	Halibut	Longline hook gear		48
2009	2	Halibut	Longline hook gear		9
2009	3	Halibut	Longline hook gear		
2009	5	Halibut	Longline hook gear		22
2009	9	Halibut	Longline hook gear		20
2009	10	Halibut	Longline hook gear		4
2009	12	Halibut	Longline hook gear		
2009	13	Halibut	Longline hook gear		7
2009	1	Lingcod	Longline hook gear		46
2009	2	Lingcod	Longline hook gear		30
2009	3	Lingcod	Longline hook gear		
2009	9	Lingcod	Longline hook gear		
2009	13	Lingcod	Longline hook gear		
2009	1	Rockfish Outside	Longline hook gear		69
2009	2	Rockfish Outside	Longline hook gear		
2009	3	Rockfish Outside	Longline hook gear		15
2009	4	Rockfish Outside	Longline hook gear		
2009	5	Rockfish Outside	Longline hook gear		63
2009	9	Rockfish Outside	Longline hook gear		
2009	13	Rockfish Outside	Longline hook gear		
2010	1	Groundfish Trawl	Bottom Trawl		

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2010	1	Halibut	Longline hook gear		34
2010	2	Halibut	Longline hook gear		5
2010	3	Halibut	Longline hook gear		
2010	4	Halibut	Longline hook gear		
2010	5	Halibut	Longline hook gear		11
2010	9	Halibut	Longline hook gear		12
2010	12	Halibut	Longline hook gear		
2010	13	Halibut	Longline hook gear		5
2010	3	Halibut and Sablefish	Longline hook gear		
2010	1	Lingcod	Longline hook gear		
2010	2	Lingcod	Longline hook gear		
2010	3	Lingcod	Longline hook gear		
2010	9	Lingcod	Longline hook gear		
2010	13	Lingcod	Longline hook gear		
2010	1	Rockfish Outside	Longline hook gear		
2010	2	Rockfish Outside	Longline hook gear		22
2010	3	Rockfish Outside	Longline hook gear		
2010	4	Rockfish Outside	Longline hook gear		
2010	5	Rockfish Outside	Longline hook gear		
2010	9	Rockfish Outside	Longline hook gear		
2010	13	Rockfish Outside	Longline hook gear		
2011	1	Groundfish Trawl	Bottom Trawl	327	4
2011	1	Groundfish Trawl	Midwater Trawl	120	1
2011	1	Halibut	Longline hook gear		32
2011	3	Halibut	Longline hook gear		6
2011	4	Halibut	Longline hook gear		
2011	5	Halibut	Longline hook gear		
2011	9	Halibut	Longline hook gear		13
2011	10	Halibut	Longline hook gear		
2011	12	Halibut	Longline hook gear		
2011	13	Halibut	Longline hook gear		
2011	1	Lingcod	Longline hook gear		22
2011	2	Lingcod	Longline hook gear		
2011	3	Lingcod	Longline hook gear		
2011	9	Lingcod	Longline hook gear		
2011	13	Lingcod	Longline hook gear		

Table T-5-5: Commercial Groundfish Effort Data 2000-2012 for PFMA 4 (cont'd)

Year	PFMA Sub-area	Fishery Sector	Gear	Duration (minutes)	Number Sets
2011	1	Rockfish Outside	Longline hook gear		46
2011	2	Rockfish Outside	Longline hook gear		
2011	3	Rockfish Outside	Longline hook gear		
2011	4	Rockfish Outside	Longline hook gear		
2011	5	Rockfish Outside	Longline hook gear		15
2011	9	Rockfish Outside	Longline hook gear		62
2011	12	Rockfish Outside	Longline hook gear		
2011	13	Rockfish Outside	Longline hook gear		
2012	1	Groundfish Trawl	Bottom Trawl		
2012	1	Halibut	Longline hook gear		35
2012	2	Halibut	Longline hook gear		
2012	3	Halibut	Longline hook gear		3
2012	5	Halibut	Longline hook gear		28
2012	7	Halibut	Longline hook gear		
2012	8	Halibut	Longline hook gear		
2012	9	Halibut	Longline hook gear		15
2012	12	Halibut	Longline hook gear		
2012	13	Halibut	Longline hook gear		9
2012	1	Halibut and Sablefish	Longline hook gear		
2012	1	Lingcod	Longline hook gear		
2012	2	Lingcod	Longline hook gear		
2012	3	Lingcod	Longline hook gear		
2012	13	Lingcod	Longline hook gear		
2012	1	Rockfish Outside	Longline hook gear		25
2012	2	Rockfish Outside	Longline hook gear		
2012	3	Rockfish Outside	Longline hook gear		
2012	4	Rockfish Outside	Longline hook gear		
2012	5	Rockfish Outside	Longline hook gear		
2012	9	Rockfish Outside	Longline hook gear		
2012	12	Rockfish Outside	Longline hook gear		
2012	13	Rockfish Outside	Longline hook gear		

Notes:

Blank = Confidential data withheld.

Source: DFO 2013g

Table T-5-6: Commercial Groundfish Total Landed Value (kg) for all Species Harvested in PFMA 3 and 4 between 2000-2012

Species	PFMA 3 Landed kg	PFMA 4 Landed kg
Arrowtooth flounder	115,425.62	45,012.70
Big skate	23,911.27	28,901.33
Black rockfish	460.88	3,228.88
Blue rockfish		7.26
Bocaccio	104.71	0.91
Butter sole		906.51
Canary rockfish	787.42	1,346.86
China rockfish	1,077.44	8,062.27
Copper rockfish	2,860.30	43,132.13
Curlfin sole	0.75	1.50
Darkblotched rockfish	0.58	
Dover sole	1,085,556.42	95,347.54
Dusky rockfish	0.89	84.82
English sole	15,578.77	48,109.29
Flathead sole	10,987.71	1,496.21
Greenlings	1.59	2.20
Greenstriped rockfish	1.34	11.56
Harlequin rockfish		19.96
Kelp greenling	291.02	4,614.78
Lefteye flounder		3.63
Lingcod	24,214.76	64,184.18
Longnose skate	17,183.92	1,636.85
Octopus	107.14	68.48
Pacific cod	40,897.56	20,811.06
Pacific hake	209,543.97	43,622.16
Pacific halibut	211,641.97	80,119.19
Pacific ocean perch	189.84	0.00
Petrale sole	1,041.77	519.11
Quillback rockfish	4,458.47	39,599.11
Redbanded rockfish	7,197.52	995.51
Redstripe rockfish		786.77
Rex sole	192,557.26	66,905.80
Rock sole	1,532.73	1,239.79
Rosethorn rockfish	2.25	0.83
Rougheye rockfish	2,655.92	14.92
Sablefish	19,446.54	271.43

Table T-5-6: Commercial Groundfish Total Landed Value (kg) for all Species Harvested in PFMA 3 and 4 between 2000-2012 (cont'd)

Species	PFMA 3 Landed kg	PFMA 4 Landed kg
Sand sole	29.99	829.77
Sandpaper skate	350.85	297.56
Sharpchin rockfish		19.50
Shortraker rockfish	1,265.74	34.82
Shortspine thornyhead	4,685.45	73.71
Silvergray rockfish	252.23	1,133.32
Southern rock sole	173.66	14.39
Spiny dogfish	175,984.73	109,466.01
Spotted ratfish	4,154.01	8,804.96
Starry flounder		2,985.13
Tiger rockfish	335.32	2,556.75
Vermilion rockfish	60.78	0.00
Walleye pollock	55,970.05	6,955.07
Widow rockfish	100.49	92.99
Yelloweye rockfish	7,630.37	17,737.84
Yellowmouth rockfish		0.00
Yellowtail rockfish	2,499.81	3,351.89
Total	2,243,211.82	755,419.24

Notes:

Total landed values do not include withheld confidential data.

Source: DFO 2013g

Table T-5-7: Commercial Salmon Annual Landed Catch* and Effort 2000-2012 in PFMA 3

Year	Gear Type	Chinook	Chum	Coho	Pink	Sockeye	Total Catch All Species	Effort (number of vessels)	Effort (boat days)
2000	Gillnet	3,069	26,087	0	219,970	257,250	506,376	N/A	3,323
2000	Seine	2	46,203	0	288,101	114,108	448,414	N/A	470
2000	Troll	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2001	Gillnet	3,294	11,240	0	43,532	127,562	185,628	N/A	1,553
2001	Seine	0	24,337	23	1,189,529	81,606	1,295,495	N/A	386
2001	Troll	0	2	8,221	989	117	9,329	N/A	229
2002	Gillnet	5,100	39,942	0	255,773	654,868	955,683	N/A	4,377
2002	Seine	0	14,626	0	2,249,134	56,564	2,320,324	N/A	474
2002	Troll	0	3	3,795	42	0	3,840	N/A	65
2003	Gillnet	5,007	64,153	4	678,614	567,188	1,314,966	N/A	5,187
2003	Seine	0	8	6,919	1,798,957	77,320	1,883,204	N/A	328
2003	Troll	0	5	22,261	3,307	28	25,601	N/A	196
2004	Gillnet	6,414	82,974	920	240,946	310,589	641,843	N/A	4,860
2004	Seine	9	11,386	21,577	1,073,213	171,982	1,278,167	N/A	671
2004	Troll	0	0	24,799	2,296	234	27,329	N/A	344
2005	Gillnet	3,345	66,484	4,008	274,264	131,511	479,612	460	3,968
2005	Seine	0	7,167	43,744	2,225,237	49,728	2,325,876	53	436
2005	Troll	0	0	8,623	8	0	8,631	25	114
2006	Gillnet	5,019	48,486	0	52,993	210,859	317,357	434	3,487
2006	Seine	0	49,991	0	137,836	43837	231,664	46	236
2006	Troll	0	0	1,165	36	3	1,204	10	30
2007	Gillnet	3,822	12,542	9,839	97,095	107,144	230,442	389	2,541
2007	Seine	0	11,974	34,868	2,919,472	117183	3,083,497	77	717

Table T-5-7: Commercial Salmon Annual Landed Catch* and Effort 2000-2012 in PFMA 3 (cont'd)

Year	Gear Type	Chinook	Chum	Coho	Pink	Sockeye	Total Catch All Species	Effort (number of vessels)	Effort (boat days)
2007	Troll	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2008	Gillnet	443	14,714	0	10,392	36,506	62,055	275	893
2008	Seine	0	0	0	11,180	5,173	16,353	31	61
2008	Troll	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2009	Gillnet	1,299	47,197	0	184,679	103,628	336,803	343	2,275
2009	Seine	0	0	1,951	880,233	13,532	895,716	45	177
2009	Troll	4	0	25,903	458	0	26,365	45	376
2010	Gillnet	694	15,388	0	30,150	65,649	111,881	260	1,394
2010	Seine	0	0	0	26,976	2,660	29,636	16	26
2010	Troll	16	0	1,4541	2,022	90	16,669	54	425.36
2011	Gillnet	1,037	0	1,364	28,978	70,075	101,454	233	1,018
2011	Seine	0	0	2,976	289,907	60,422	353,305	56	164
2011	Troll	0	0	2,348	157	10	2,515	6	18
2012	Gillnet	466	14,195	0	58,528	113,241	186,430	262	1,375
2012	Seine	0	25,993	0	339,239	5,366	370,598	33	165
2012	Troll	167	0	17,652	1,678	91	19,588	40	360.48
Total		39,207	635,097	66,735	1,5615,921	3,556,124	20,103,850	3,193	42,719.84

Notes:

* Annual landed catch count (pc) by species.

Values represent the total number of salmon kept in the commercial salmon fishery per fishery calendar year.

2000-2004 data were calculated using finalized post-season catch and effort estimates.

2005-2012 data were calculated using in-season catch and effort estimates (post-season not available).

Number of vessels not available for post-season catch and effort estimates.

Troll catch PFMA's are combined with offshore FMA's, and therefore FMA 3 includes FMA 103.

N/A: no fishery openings.

Source: DFO 2013h

Table T-5-8: Commercial Salmon Annual Landed Catch* and Effort 2000 to 2012 in PFMA 4

Year	Gear Type	Chinook	Chum	Coho	Pink	Sockeye	Total Catch All Species	Effort (number of vessels)	Effort (boat days)
2000	Gillnet	16,463	20,517	2	42,560	1,256,765	1,336,307	N/A	7,156
	Seine	1	8,225	0	272,140	667,954	948,320	N/A	961
	Troll	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2001	Gillnet	19,342	13,941	0	166,209	1,438,719	1,638,211	N/A	8,191
	Seine	0	8,159	76	986,640	498,385	1,493,260	N/A	629
	Troll	2,300	45	0	1,709	665	4,719	N/A	311
2002	Gillnet	8,400	12,677	0	119,429	485,535	626,041	N/A	5,378
	Seine	0	2,825	0	380,401	53,830	437,056	N/A	358
	Troll	0	3	4,133	183	0	4,319	N/A	15
2003	Gillnet	8,385	10,308	0	204,450	371,575	594,718	N/A	3,679
	Seine	0	0	0	1,087,401	88,161	1,175,562	N/A	188
	Troll	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2004	Gillnet	4,662	11,173	0	77,151	124,729	217,715	N/A	2,622
	Seine	0	0	2	95,105	23,692	118,799	N/A	134
	Troll	0	0	22,254	2,787	49	25,090	N/A	192
2005	Gillnet	1,760	1	0	0	35	1,796	115	199
	Seine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Troll	72	0	27,341	1,416	0	28,829	23	135
2006	Gillnet	5,120	5,641	0	216,147	711,818	938,726	492	6,376
	Seine	0	0	0	155,288	263,018	418,306	74	682
	Troll	73	0	8,415	960	97	9,545	17	75
2007	Gillnet	5,186	0	5,003	343,029	361,944	715,162	419	2,621
	Seine	0	0	6,884	459,349	37,558	503,791	45	136
	Troll	130	21	36,586	6,094	280	43,111	40	311

Table T-5-8: Commercial Salmon Annual Landed Catch* and Effort 2000 to 2012 in PFMA 4 (cont'd)

Year	Gear Type	Chinook	Chum	Coho	Pink	Sockeye	Total Catch All Species	Effort (number of vessels)	Effort (boat days)
2008	Gillnet	5,236	0	0	63,544	497,320	566,100	345	3,319
	Seine	0	0	0	91,767	195,938	287,705	43	275
	Troll	5	0	722	73	141	941	8	10
2009	Gillnet	2,438	0	0	0	132	2,570	111	191
	Seine	0	0	0	341,403	0	341,403	21	49
	Troll	21	0	12,296	624	0	12,941	21	106
2010	Gillnet	1,061	0	0	15,116	62,798	78,975	244	581
	Seine	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Troll	31	18	14,406	955	67	15,477	27	134.86
2011	Gillnet	1,666	0	2,511	95,742	249,050	348,969	288	1,595
	Seine	0	0	3,910	97,970	60,843	162,723	46	136
	Troll	0	0	49,604	2,506	92	52,202	39	299
2012	Gillnet	314	0	0	24,214	399,892	424,420	331	1,388
	Seine	0	0	0	10,251	123,340	133,591	34	118
	Troll	431	3	46677	4,139	96	51,346	39	258.32
TOTAL		83,097	93,557	240,822	5,366,752	7,974,518	13,758,746	2,822	48,809.18

Notes:

* Annual landed catch count (pc) by species

Values represent the total number of salmon kept in the Commercial Salmon Fishery per fishery calendar year

2000-2004 were calculated using finalized post-season catch and effort estimates

2005-2012 were calculated using in-season catch and effort estimates (post-season not available)

Troll catch PFMA's are combined with offshore FMA's, and therefore Area 4 includes Area 104, etc.

N/A: no fishery openings

Catch figures omitted due to privacy restrictions

Source: DFO 2013h

Table T-5-9: Annual Commercial Dungeness crab Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1							1	0	1	*	1	*		
2														
3													1	*
6	2	*	4	2,937	1	*	2	*	1	*	1	*	1	*
7	4	2,224	1	*	1	*	2	*	1	*	3	2,083	2	*
8	6	6,186	2	*	4	1,389	4	4,512	6	4,564	2	*	5	4,854
9	4	5,013	2	*			2	*	4	1,322	3	9,063	1	*
10	4	8,402	3	8,602	3	3,582	2	*	4	12,787	3	3,628	2	*
11	6	11,436	3	5,509	4	2,270	5	2,190	4	7,097	2	*	3	14,108
12	5	9,260	8	18,917	8	44,504	7	41,303	9	17,795	6	12,309	3	1,408
13														
14	1	*	7	35,555	4	12,212	3	4,190	1	*	1	*	4	69,051
15														
17	4	4,772	3	7,063			2	*	1	*	2	*	1	*
18	9	19,366	10	14,286	6	37,895	5	12,088	10	14,290	4	6,291	6	15,803
Totals	11	73,534	13	99,936	9	103,086	10	75,502	12	68,922	8	59,455	7	111,500

Table T-5-9: Annual Commercial Dungeness crab Landings and Effort from 2000-2012 for PFMA 3, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*	1	*	2	*						
2	1	*										
3												
6	2	*	2	*	5	5,555	4	8,141	3	2,189	4	8,551
7	1	*	2	*	4	1,623	3	746	1	*	2	*
8	4	4,572	5	5,909	6	14,028	5	5,517	5	18,091	5	7,505
9	1	*	3	1,914	4	2,047	3	3,093	4	5,946	5	8,507
10	4	2,407	4	2,853	4	2,798	6	5,256	5	3,521	5	3,686
11	4	2,809	3	2,708	3	9,917	3	5,854	4	2,942	3	410
12	2	*	3	4,116	5	9,369	3	4,123	4	10,010	6	12,492
13			1	*	1	*	1	*				
14	4	25,724	3	41,766	7	102,296	5	22,664	5	14,094	4	4,310
15											1	*
17	3	14,873	2	*	4	3,908	3	2,668	3	6,778	3	7,091
18	4	22,540	4	19,869	7	16,401	5	15,718	6	35,168	7	36,488
Totals	7	78,393	6	84,990	9	168,518	6	***	6	***	7	89,363

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub-areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-10: Annual Commercial Dungeness crab Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1							1	*	1	*	1	*	2	*
2	2	*	2	*	1	*	1	*	1	*	1	*	1	*
3			2	*	1	*								
4														
5	6	22,681	3	5,107	2	*	3	12,099	3	11,942	6	7,672	3	9,782
6														
7					1	*	1	*	1	*				
8	1	*	1	*	2	*	3	5,448	3	4,415	2	*	4	2,436
9	8	21,292	3	1,679	2	*	5	10,294	5	3,350	4	4,705	7	12,517
10					1	*	1	*	1	*	1	*	1	*
11	1	*												
12	12	48,216	13	42,506	12	71,768	12	98,271	10	56,539	10	6,1250	8	76,213
15							1	*					1	*
Totals	16	95,881	16	51,742	14	105,817	15	128,561	13	79,276	14	81,539	10	107,948

Table T-5-10: Annual Commercial Dungeness crab Landings and Effort from 2000-2012 for PFMA 4, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*	1	*	1	*	2	*	2	*	1	*
2	1	*	2	*	1	*	1	*	2	*	1	*
3	1	*	1	*					1	*		
4	1	*							1	*		
5	4	5,425	5	2,795	7	6,468	6	27,026	4	1,611	4	921
6									1	*		
7	1	*					2	*	3	531	1	*
8	4	2,030	3	892	3	6,908	5	5,319	5	13,810	5	13,816
9	7	6,626	10	19,760	9	14,234	10	9,173	8	4,688	6	4,555
10											1	*
11											1	*
12	11	103,474	12	73,296	12	73,888	11	72,965	12	73,324	12	62,074
15			1	*					1	*		
Totals	11	124,103	12	100,013	12	102,283	11	116,421	13	95,597	12	83,260

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub-areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-11: Annual Commercial Geoduck Landings and Effort from 2002-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2002		2005		2008		2011		2012	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1	6	81,978	11	69,174	8	60,337	10	73,397	1	*
2			1	*			2	*		
4	3	2,949					4	2,774		
Totals	6	84,927	11	***	8	60,337	10	***	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-12: Annual Commercial Geoduck Landings and Effort from 2001-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2001		2002		2004		2005		2007	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1			17	149,638			10	89,789		
2			16	59,256			8	30,849		
3			5	4,467						
4			9	27,023			6	13,204		
5			6	6,393			5	3,406		
9			8	20,528			5	3,672		
13			16	108,405			5	41,178		
Totals			24	375,710			11	182,098		

PFMA Sub-area	2008		2009		2010		2011		2012	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1	9	101,170					9	117,004		
2	4	16,887	9	56,191			19	77,876		
3			4	4,376			6	4,612		
4			9	25,505			9	35,463		
5							6	6,015		
9			8	35,403			10	37,269		
13	7	57,568					8	58,374		
Totals	15	175,625	9	121,475			23	336,613		

Notes: Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act and Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting; ** Effort defined as Licence Count where one vessel may fish multiple licences; *** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-13: Annual Commercial Octopus by Dive Landings and Effort from 2000-2005 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2002		2003		2004		2005	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*	1	*	1	*	1	*	1	*
Totals	1	*	1	*	1	*	1	*	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-14: Annual Commercial Octopus by Dive Landings and Effort from 2000-2007 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006		2007	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*							1	*						
2			1	*			1	*								
5			1	*												
8			1	*	1	*	1	*			1	*	1	*		
9	1	*	1	*	1	*			1	*			1	*		
12	1	*	1	*	1	*										
Totals	1	*	1	*	1	*	1	*	1	*	1	*	1	*		

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-15: Annual Commercial Sidelstripe Shrimp Trawl Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	6	7,976	1	*			2	*						
2	8	4,453	7	2,562	8	4,252	10	1,0552	6	4,097	9	4,453	8	4,890
3	8	4,756	5	1,599	1	*	4	558	2	*	3	216		
4	6	2,395	6	576	5	2,434	6	3,435	4	1,464	4	1,171	7	2,700
5			1	*										
6	10	16,933	5	4,164	3	711	3	1,999	1	*	3	2,666	2	*
7	6	2,840	3	734			3	522	3	1,274	2	*	1	*
8	4	1,408	2	*			1	*			1	*		
9	10	5,785	5	2,318	1	*	4	1,796	3	986	6	4,402	4	1,920
10	10	4,395	2	*	1	*	3	294	2	*	1	*	3	280
11	2	*	1	*			1	*	1	*			2	*
12	10	23,074	6	9,020	5	6,558	5	8,034	2	*	4	1,271	5	5,251
14	1	*					1	*					1	*
15	2	*												
17			1	*			1	*	1	*	1	*	1	*
18	1	*			1	*	1	*					1	*
Totals	26	75,319	18	22,217	12	15,646	18	35,832	11	16,984	14	15,604	14	18,748

Table T-5-15: Annual Commercial Sidestripe Shrimp Trawl Landings and Effort from 2000-2012 for PFMA 3, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1												
2	4	999	3	1,822	4	1,917	1	*	1	*	2	*
3					1	*						
4	2	*	2	*	1	*	1	*				
5												
6	1	*	2	*	2	*	1	*	1	*		
7	2	*	1	*	1	*	1	*				
8			1	*					1	*		
9	3	1,139	3	1,758	3	1,403	2	*	2	*	2	*
10	1	*	3	669	1	*	1	*	1	*	1	*
11	1	*										
12	2	*			1	*					1	*
14												
15												
17	2	*	1	*			1	*	1	*		
18												
Totals	8	4,191	8	9,646	8	4,552	4	1,224	3	1,995	4	389

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-16: Annual Commercial Sideshripe Shrimp Trawl Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	3	71			1	*	1	*						
2			2	*	2	*	2	*	1	*	2	*	2	*
3	1	*	1	*			1	*						
4			1	*										
5	24	27,627	19	17,784	21	31,293	19	27,039	13	15,118	24	34,135	21	29,138
6			2	*									2	*
7			1	*										
8			1	*			1	*						
9	33	34,905	26	34,501	24	58,345	24	56,495	20	27,747	23	49,575	23	38,909
10	2	*	1	*	2	*	3	403	2	*	2	*	1	*
11	1	*			1	*	1	*						
12	33	12,348	23	8,522	20	8,751	19	6,174	16	10,359	16	7,788	19	9,926
13	1	*	5	1,088	3	2,608	5	217			3	408		
14					1	*								
Totals	38	75,924	27	62,316	27	102,475	26	92,138	22	53,749	26	92,514	27	79,640

Table T-5-16: Annual Commercial Sidestripe Shrimp Trawl Landings and Effort from 2000-2012 for PFMA 4, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1												
2	1	*	1	*	2	*	2	*	2	*		
3												
4							1	*				
5	16	10,671	13	14,110	14	18,654	7	12,136	5	9,439	5	5,929
6												
7												
8			1	*								
9	18	50,630	15	24,584	15	40,760	8	16,857	6	23,791	8	16,884
10	3	599	1	*	1	*			2	*	1	*
11												
12	18	10,981	13	10,119	15	4,989	8	7,289	6	6,566	6	5,551
13	1	*			1	*			1	*	1	*
14												
Totals	22	73,135	17	48,967	19	65,054	10	37,432	9	51,525	9	28,457

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

** Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-17: Annual Commercial Humpback Shrimp by Trawl Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
2			1	*			1	*						
4					1	*			1	*	1	*	1	*
6	2	*	1	*									1	*
7	1	*									1	*		
8	1	*												
9	1	*									1	*		
10	5	1,518					1	*					1	*
12	1	*												
14	1	*											1	*
17													1	*
Totals	7	1,672	2	*	1	*	2	*	1	*	3	104	3	187

Table T-5-17: Annual Commercial Humpback Shrimp by Trawl Landings and Effort from 2000-2012 for PFMA 3, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
2												
4												
6			1	*	2	*	1	*				
7												
8												
9					2	*						
10	1	*	1	*					1	*	1	*
12												
14												
17												
Totals	1	*	2	*	2	*	1	*	1	*	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-18: Annual Commercial Humpback Shrimp by Trawl Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*												
2					1	*								
5	7	61	3	9	2	*	1	*			3	8		
9	20	10,534	15	6,455	10	4,536	4	24	4	387	8	1,150	9	1,445
10	5	307	1	*	2	*	1	*			1	*	1	*
11	1	*												
12	21	12,052	15	7,683	10	2,603	6	214	7	534	6	948	7	2,229
13			1	*										
15			2	*										
Totals	26	23,401	17	14,214	13	7,623	7	656	7	921	11	***	10	***

Table T-5-18: Annual Commercial Humpback Shrimp by Trawl Landings and Effort from 2000-2012 for PFMA 4, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1												
2												
5					1	*	1	*				
9	5	1,182	4	86	5	1,736	3	289	1	*		
10	1	*	1	*	2	*			2	*		
11												
12	6	646	6	268	2	*	1	*	1	*		
13												
15												
Totals	8	***	6	***	5	2,950	3	831	3	514		

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-19: Annual Commercial Humpback Shrimp by Trap Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
2	1	*												
3	1	*	3	24			1	*	1	*	1	*	1	*
4	1	*	2	*	2	*					1	*		
6	4	349	6	465	2	*	3	206	2	*	3	543	3	625
7	2	*	2	*	2	*	2	*	1	*	1	*	2	*
8	1	*	3	152	2	*	3	59	2	*	1	*	1	*
9	1	*	2	*	2	*			1	*	1	*	1	*
10	2	*	3	465	4	567	3	169	1	*	2	*	1	*
11	3	172	3	388	3	80	3	133	1	*	1	*	2	*
12	1	*			2	*							1	*
13	3	53					1	*	1	*			1	*
14			3	3,785	1	*	2	*	1	*			1	*
15	2	*	2	*	2	*	3	268	1	*	1	*		
16	1	*					2	*	1	*				
17	1	*	2	*	3	48	1	*	1	*	1	*	1	*
18			1	*	1	*								
Totals	9	2,699	7	5,695	6	1,658	8	1,672	3	2,212	4	873	3	1,608

Table T-5-19: Annual Commercial Humpback Shrimp by Trap Landings and Effort from 2000-2012 for PFMA 3, by Sub-area (cont'd)**

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
2												
3					3	31			1	*	1	*
4					2	*						
6	2	*	2	*	1	*	1	*	1	*	2	*
7	2	*	2	*	2	*			1	*	2	*
8	2	*	2	*	3	59	1	*	1	*	1	*
9	1	*	1	*	2	*					1	*
10	2	*	3	199	2	*	1	*	1	*	2	*
11	1	*	2	*	1	*			2	*	2	*
12	1	*			1	*						
13	1	*										
14							1	*				
15	1	*	2	*	2	*						
16	1	*	1	*								
17	1	*			1	*						
18												
Totals	2	*	3	344	4	579	2	*	2	*	2	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-20: Annual Commercial Humpback Shrimp by Trap Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1			1	*										
5	4	112	2	*	1	*	1	*	3	119			1	*
9	5	2,202	3	769	2	*	3	495	4	668	3	285	3	218
10	6	18,488	8	20,368	6	17,022	7	16,181	6	18,757	6	26,447	5	28,464
11	3	2,945	5	3,351	3	4,625	4	6,021	2	*	2	*	3	7,756
12	4	527	8	811	4	181	3	186	5	711	7	1,176	4	178
Totals	15	24,274	12	25,332	9	22,088	7	***	9	***	8	***	7	***

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1												
5	1	*			1	*	1	*			1	*
9	2	*	2	*	2	*	2	*	2	*	2	*
10	6	28,683	5	26,662	5	29,215	5	23,683	4	16,046	4	10,508
11	2	*	4	4,745	3	1,289	2	*	3	2,916	2	*
12	2	*	3	265	6	174	1	*	2	*	2	*
Totals	8	35,252	6	***	7	30,731	6	32,157	6	19,502	6	11,999

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-21: Annual Commercial Coonstripe Shrimp by Trawl Landings and Effort for 2000 and 2006 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2006	
	Vessel Count	kg	Vessel Count	kg
6	1	*		
10	1	*		
12			1	*
Totals	1	*	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-22: Annual Commercial Coonstripe Shrimp by Trawl Landings and Effort from 2000-2011 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
5	1	*								
9	2	*	2	*	1	*				
10	1	*					1	*	1	*
11	1	*								
12	2	*	1	*	1	*	1	*	1	*
Totals	3	547	2	*	1	*	1	*	2	*

PFMA Sub-area	2005		2007		2008		2009		2011	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
5					1	*	1	*		
9	1	*	1	*						
10									1	*
11										
12	1	*	1	*						
Totals	1	*	2	*	1	*	1	*	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-23: Annual Commercial Coonstripe Shrimp by Trap Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
6					1	*							1	*
13	1	*			1	*								
14							1	*						
15	1	*			1	*								
Totals	1	*			2	*	1	*					1	*

PFMA Sub-area	2007		2008		2009		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
6										
13										
14										
15										
Totals										

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-24: Annual Commercial Coonstripe Shrimp by Trap Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
5												
9	1	*	1	*			1	*	2	*	1	*
10	1	*										
11	1	*										
12	1	*	1	*					2	*	1	*
Totals	2	*	1	*			1	*	2	*	1	*

PFMA Sub-area	2006		2007		2008		2009		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
5	1	*										
9	2	*	1	*			1	*	1	*		
10												
11												
12	2	*	1	*			1	*	1	*		
Totals	2	*	1	*			1	*	1	*		

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-25: Annual Commercial Spot Prawn by Trawl Landings and Effort from 2000-2009 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2005		2009	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*						
4			1	*	1	*		
6	1	*					1	*
9							2	*
10							1	*
Totals	2	*	1	*	1	*	2	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-26: Annual Commercial Spot Prawn by Trawl Landings and Effort** from 2000-2010 for PFMA 4, by Sub-area

PFMA Sub-area	2000		2001		2002		2003		2004		2005	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1					1	*						
5	1	*	1	*	2	*	2	*			1	*
6			1	*								
9	5	18	2	*	2	*			2	*	2	*
10									1	*	1	*
12	2	*	3	19								
13			1	*								
Totals	7	32	4	35	3	5	2	*	2	*	3	8

PFMA Sub-area	2006		2007		2008		2009		2010	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1										
5			3	2						
6										
9	2	*	4	8	1	*	3	2		
10										
12	2	*	2	*					1	*
13										
Totals	2	*	4	***	1	*	3	2	1	*

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

** Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-27: Annual Commercial Spot Prawn by Trap Landings and Effort from 2000-2012 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	3	1,559	3	1977	1	*	1	*	2	*	1	*		
2	3	2,301	3	610	2	*			3	434	2	*	1	*
3	2	*	4	1,522	3	260	1	*	3	477	2	*	1	*
4	2	*	3	2,156	3	403			1	*	2	*	1	*
6	5	10,404	7	4,673	3	9,109	4	5,607	2	*	3	12,136	3	15,345
7	5	4814	3	1,152	2	*	2	*	2	*	2	*	2	*
8	1	*	3	1,046	2	*	3	434	3	590	1	*	1	*
9	1	*	2	*	2	*	1	*	2	*	1	*	1	*
10	2	*	3	2,924	4	4,933	4	1,868	1	*	2	*	1	*
11	3	3,218	3	3,206	4	1,468	3	987	1	*	1	*	2	*
12	3	1,510	1	*	3	525	1	*					1	*
13	3	1,882	1	*	3	1,221	3	609	3	1,133	1	*	1	*
14	1	*	3	1,306	1	*	2	*	1	*			1	*
15	3	4,689	3	2,552	3	2,212	3	3,453	2	*	1	*	1	*
16	1	*	1	*			2	*	1	*				
17	2	*	2	*	3	1,139	2	*	1	*	1	*	1	*
18			1	*	1	*								
Totals	14	42,528	10	26,840	7	27,835	8	17,012	5	17,571	5	18,738	3	26,213

Table T-5-27: Annual Commercial Spot Prawn by Trap Landings and Effort** from 2000-2012 for PFMA 3, by Sub-area (cont'd)

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1	1	*			1	*			1	*	1	*
2	1	*			2	*			1	*	1	*
3	2	*	3	351	4	627	1	*	2	*	2	*
4	2	*	2	*	2	*			1	*	1	*
6	3	13,800	2	*	1	*	1	*	2	*	2	*
7	2	*	2	*	3	1,231			2	*	3	917
8	2	*	2	*	3	296	1	*	1	*	2	*
9	1	*	1	*	2	*					2	*
10	2	*	3	1,011	2	*	1	*	1	*	2	*
11	1	*	3	1,371	3	5,054	2	*	2	*	3	1,873
12	1	*	1	*	2	*	1	*	1	*		
13	1	*	1	*	3	978	1	*			1	*
14			1	*	1	*	1	*	1	*		
15	1	*	2	*	4	3,236	1	*	1	*	1	*
16	1	*	1	*	1	*						
17	1	*	1	*	1	*	1	*				
18			1	*								
Totals	3	27,797	4	12,576	6	20,030	2	*	5	13,396	4	22,100

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-28: Annual Commercial Spot Prawn by Trap Landings and Effort from 2000-2012 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005		2006	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1			1	*										
2			1	*			1	*						
3	1	*												
5	5	5,294	7	6,723	4	1,754	1	*	4	2,636	4	8,350	3	5,734
9	9	19,110	7	11,881	9	9,704	5	4,863	6	6,161	6	4,574	3	8,841
10			1	*	2	*	2	*	1	*	1	*		
11														
12	5	9,350	8	7,670	6	6,903	4	6,531	6	10,056	5	6,882	3	3,352
13					1	*								
15					1	*								
Totals	13	***	15	26,340	10	18,593	6	17,104	7	***	8	***	5	17,927

Table T-5-28: Annual Commercial Spot Prawn by Trap Landings and Effort** from 2000-2012 for PFMA 4, by Sub-area (cont'd)

PFMA Sub-area	2007		2008		2009		2010		2011		2012	
	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg	Vessel Count	kg
1			1	*	1	*			1	*	1	*
2												
3												
5	2	*	1	*	3	1,701	2	*	3	4,041	2	*
9	4	6,507	4	2,907	2	*	2	*	5	6,778	4	1,549
10	1	*			1	*	1	*	1	*		
11									1	*		
12	3	7,566	4	2,924	6	919	2	*	3	6,435	3	1,109
13												
15												
Totals	4	15,746	5	6,684	8	4,444	4	6,753	6	17,315	5	6,305

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-29: Annual Commercial Sea Cucumber Landings* and Effort** from 2009-2011 for PFMA 3, by Sub-area**

PFMA Sub-area	2009			2010			2011		
	Licence Count	kg (Round)	kg (Split)	Licence Count	kg (Round)	kg (Split)	Licence Count	kg (Round)	kg (Split)
1	3	30,374	11,126				1	*	*
3				3	13,761	5,041	2	*	*
6				6	39,332	14,407	9	56,847	20,823
7				10	36,444	13,349	8	47,064	17,240
8				5	26,310	9,637	7	30,118	11,032
10							3	7,057	2,585
11							11	53,292	19,521
Totals	3	30,374	11,126	14	115,847	42,434	15	210,462	77,092

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

***Landings are presented in two ways: Round (whole animal) weights and Split (split and eviscerated) weights. This fishery is managed using split weights.

**** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-30: Annual Commercial Sea Cucumber Landings* and Effort** from 2009-2011 for PFMA 4, by Sub-area**

PFMA Sub-area	2009			2010			2011		
	Licence Count	kg (Round)	kg (Split)	Licence Count	kg (Round)	kg (Split)	Licence Count	kg (Round)	kg (Split)
1	9	58,814	21,544	12	91,683	33,584	14	107,502	39,378
2	7	33,267	12,186	5	16,273	5,961			
4	1	*	*	3	19,077	6,988			
5	11	62,423	22,866	11	66,401	24,323	16	94,007	34,435
9	3	6,183	2,265	8	32,402	11,869			
12	2	*	*						
Totals	15	169,110	61,947	22	225,836	82,725	21	201,509	73,813

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the Privacy Act and Access to Information Act.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

***Landings are presented in two ways: Round (whole animal) weights and Split (split and eviscerated) weights. This fishery is managed using split weights.

**** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-31: Annual Commercial Red Sea Urchin Landings and Effort from 2000-2011 for PFMA 3, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1	14	31,336	31	206,641	20	114,742	12	43,966	19	64,650	10	65,570
2	6	15,764	2	*	4	10,125	2	*	7	14,034		
3	2	*	3	4,060	2	*	3	15,372	2	*		
Totals	14	***	32	***	21	***	13	***	20	***	10	65,570

PFMA Sub-area	2006		2007		2008		2009		2010		2011	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1							6	105,811	10	108,827	6	104,660
2							1	*	1	*	1	*
3									1	*	2	*
Totals							6	***	10	112,348	7	115,576

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Table T-5-32: Annual Commercial Red Sea Urchin Landings and Effort from 2000-2011 for PFMA 4, by Sub-area**

PFMA Sub-area	2000		2001		2002		2003		2004		2005	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1	14	60,342	24	94,689	18	93,786	24	76,528	26	97,790	12	50,804
2	34	97,669	34	102,966	28	108,085	27	101,739	28	89,514	21	75,518
3	4	7,012	3	11,191	3	8,825	6	12,735	28	62,347	24	61,591
4											3	9,727
5							1	*	4	6,858	1	*
9	15	20,121	15	19,626	12	26,939	7	10,429	18	38,199	9	23,404
12	9	19,083	7	12,674	4	7561	12	10,565	3	7,046	1	*
13	40	188,632	42	226,502	17	118,700	29	142,503	25	90,380	29	88,248
Totals	55	392,859	51	467,648	37	363,896	46	***	48	392,134	38	313,030

Table T-5-32: Annual Commercial Red Sea Urchin Landings and Effort from 2000-2011 for PFMA 4, by Sub-area (cont'd)**

PFMA Sub-area	2006		2007		2008		2009		2010		2011	
	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg	Licence Count	kg
1	8	23,685			9	21,786	11	116,132	7	75,363	10	111,668
2	18	67,103	10	29,769	12	76,523	12	90,000	12	89,545	14	63,231
3	12	44,492	12	48,344	4	12,767	7	42,174	6	11,441		
4			2	*	1	*			2	*	3	6,315
5									2	*		
9			8	14,467	8	21,751	1	*	7	41,977	7	19,354
12									3	13,244	2	*
13	30	130,785	6	14,271			18	128,896	14	114,502	18	130,114
Totals	37	266,065	16	***	20	***	24	***	28	366,987	24	***

Notes:

Information presented in this worksheet has been summarized to respect individuals' rights to privacy as described in the *Privacy Act* and *Access to Information Act*.

* Information does not meet the requirement for release - fewer than three licences reporting.

**Effort defined as Licence Count where one vessel may fish multiple licences.

*** Release would compromise confidentiality at the sub-area level.

Those years or sub areas with zero landings and effort reported have been omitted from the results.

Source: DFO 2013i

Application for an Environmental Assessment Certificate

Appendix T-6 Industrial Land Use

T.6.1 MINERAL TENURE DEFINITIONS

Mining Lease: Required for annual production that exceeds the levels for a mineral claim (BC Ministry of Energy and Mines 2013).

Coal Lease: Acquired at the time a large-scale mining operation moves to the production phase and grants the exclusive right to explore for, develop, and produce coal on the lease location. The lease boundaries must conform to the coal licence boundary locations. The initial term for a coal lease is 30 years, and another 15 years if removed (BC Ministry of Energy and Mines 2013).

Coal Licence: Grants exclusive right to explore and develop crown owned coal resources. This tenure's production is limited to sampling of up to 100,000 tonnes for testing purposes (BC Ministry of Energy and Mines 2013).

Coal Licence Applications: A licence location cannot exceed more than 20 units but must consist of adjoining units. The boundaries of a licence must conform to the established grid mandated by the *Petroleum and Natural Gas Act* (BC Ministry of Energy and Mines 2013).

Two Post Claims: Prior to the amendments to the *Mineral Tenure Act* in 2005 (effective January 12, 2005), the procedure for mineral claims was to perform on the ground staking. In two-post claim staking, a location line is blazed between the two posts. An inscription on the number one post describes how much of the claim lies on either side of the location line; the total width cannot exceed 1,500 feet (Von Korkh 2010).

Four Post Claims: Introduced in 1974, and also known as a modified grid, the four post claim method involves a rectangular block with boundaries running in all directions that contains 25 ha "claim units" (to a max of 20), for a claim between 25 to 500 ha.

Placer Claims: A claim to the placer minerals within an area which has been located or acquired by a method set out in the regulations of the *Mineral Tenure Act* (*Mineral Tenure Act*, Government of BC 1996b). Production is limited to 20,000 cubic metres of pay dirt per claim (BC Ministry of Energy and Mines 2013).

Mineral Cell Title Submissions: Can be acquired anywhere in BC where there are no other impeding interests (other mineral titles, reserves, parks, etc.) (BC Ministry of Energy and Mines 2013).

Placer Cell Title Submissions: can only be acquired in Placer Designated Areas in BC. A Mineral Claim cannot be used to carry out Placer activity and vice versa (BC Ministry of Energy and Mines 2013).

T.6.2 OIL AND GAS TENURES

- **Petroleum and Natural Gas Tenure:** In BC, the government owns the majority of natural gas and geothermal rights. A private company can develop these resources by entering into a tenure agreement with the BC government. These rights are for specific areas and may be restricted to certain geologic formations, or may include rights to all depths (BC Business n.d.).
- **Petroleum Tenure:** In BC, the government owns the majority of subsurface petroleum rights. A private company can develop these resources by entering into a tenure agreement with the BC government. These rights are for specific areas and may be restricted to certain geologic formations, or may include rights to all depths (BC Business n.d.).
- **Drilling Licence:** In BC, this represents a title to a parcel of Crown reserve petroleum and natural gas rights granted under the *Petroleum and Natural Gas Act* regulation conferring a right to explore for petroleum and natural gas. (*Petroleum and Natural Gas Act* 1982).

Table T-6-1: Oil and Gas Facilities Located in the Land and Resource Use Local and Regional Assessment Areas

Proponent	Facility Name
LAA	
Canadian Spirit Resources Inc.	CSRI TH W FARRELL C-48-I/94-B-1
Canadian Spirit Resources Inc.	SPIRIT TH W FARRELL C-48-I/94-B-1
Canbriam Energy Inc.	Canbriam Farrell b-17-I/94-B-1
Crew Energy Inc.	CREW PORTAGE A-20-D/94-A-4
Crew Energy Inc.	CREW PORTAGE B-43-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-023-A/094-B-01
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-20-D/94-A-4
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-24-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-34-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE B-32-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE C-13-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG TH PORTAGE B-43-A/94-B-1
RAA	
B.C. Star Partners	BCSTAR ALTARES B-84-A/94-B-8
BP Canada Energy Company	AMOCO FARRELL D-20-J/94-B-1
Canada Energy Partners Inc.	CE PORTAGE A-C100-D/94-A-4
Canadian Spirit Resources Inc.	CSRI TH W FARRELL B-2-I/94-B-1
Canadian Spirit Resources Inc.	CSRI TH W FARRELL B-3-I/94-B-1
Canadian Spirit Resources Inc.	CSRI TH W FARRELL B-92-H/94-B-1
Canadian Spirit Resources Inc.	CSRI TH W FARRELL C-48-I/94-B-1
Canadian Spirit Resources Inc.	CSRI TH W FARRELL C-83-H/94-B-1
Canadian Spirit Resources Inc.	CSRI TH W FARRELL C-A83-H/94-B-1
Canadian Spirit Resources Inc.	CSRI TH WEST FARRELL D-93-H/94-B-1
Canadian Spirit Resources Inc.	CSRI W FARRELL B-A92-H/94-B-1
Canadian Spirit Resources Inc.	SPIRIT TH W FARRELL C-48-I/94-B-1
Canbriam Energy Inc.	Canbriam Farrell b-17-I/94-B-1
Crew Energy Inc.	CREW CANADA PORTAGE 8-23-81-26
Crew Energy Inc.	CREW PORTAGE 1-36-81-26
Crew Energy Inc.	CREW PORTAGE A-20-D/94-A-4
Crew Energy Inc.	CREW PORTAGE A-96-I/93-O-16
Crew Energy Inc.	CREW PORTAGE B-43-A/94-B-1
Crew Energy Inc.	CREW PORTAGE C-4-A/94-B-1
Crew Energy Inc.	CREW PORTAGE C-92-I/93-O-16 (TEST HOLE)
Encana Corporation	ECA BUTLER B-67-I/94-B-1
Encana Corporation	ECA FARRELL 10-3-83-25
Hudson's Hope Gas, Ltd.	HHG GATES A10-10-82-25
Hudson's Hope Gas, Ltd.	HHG PORTAGE 1-36-81-26

Proponent	Facility Name
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-023-A/094-B-01
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-100-D/94-A-4
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-20-D/94-A-4
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-24-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-34-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-A100-D/94-A-4
Hudson's Hope Gas, Ltd.	HHG PORTAGE A-A96-I/93-O-16
Hudson's Hope Gas, Ltd.	HHG PORTAGE B-32-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE C-12-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE C-13-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG PORTAGE C-50-D/94-A-4
Hudson's Hope Gas, Ltd.	HHG PORTAGE D-12-H/94-B-1
Hudson's Hope Gas, Ltd.	HHG TH GATES A10-10-82-25
Hudson's Hope Gas, Ltd.	HHG TH PORTAGE A-96-I/93-O-16
Hudson's Hope Gas, Ltd.	HHG TH PORTAGE B-43-A/94-B-1
Hudson's Hope Gas, Ltd.	HHG TH PORTAGE C-92-I/93-O-16
Hudson's Hope Gas, Ltd.	HHG TH PORTAGE D-12-H/94-B-1
Northpoint Energy Ltd.	NORTHPOINT ALTARES A-23-A/94-B-8
Northpoint Energy Ltd.	NORTHPOINT ALTARES B-43-A/94-B-8
Northpoint Energy Ltd.	Northpoint Altares c-71-A/94-B-8
Northpoint Energy Ltd.	NORTHPOINT ALTARES D-B53-A/94-B-8
Progress Energy Canada Ltd.	PROGRESS PC ALTARES B-84-A/94-B-8
Progress Energy Resources Corp.	PROEX ALTARES D-55-B/94-B-8
Shell Canada Limited	SHELL FARRELL C-93-H/94-B-1
Suncor Energy Inc.	SUNCOR ALTARES A-80-A/94-B-8
Talisman Energy Inc.	TALISMAN ALTARES B-15-I/94-B-1
Talisman Energy Inc.	TALISMAN ALTARES C-85-I/94-B-1
Talisman Energy Inc.	TALISMAN ALTARES C-A85-I/94-B-1
Talisman Energy Inc.	TALISMAN FALLS D-86-E/93-O-9
Talisman Energy Inc.	Talisman Farrell b-87-I/94-B-1
Talisman Energy Inc.	Talisman Farrell b-88-I/94-B-1

Source: BC OGC, Oil and Gas Well Surface locations for British Columbia, 2006; Data BC. 2010a. OGC Pipeline Rights-of-Way (Public Version); Data BC. 2010b. OGC Facility Locations. BC OGC; Data BC. 2010c. OGC Facility Sites (Public Version). BC OGC