Kootenay Region

MANAGEMENT DIRECTION STATEMENT

September, 2004

for Gilnockie Creek Ecological Reserve

Ministry of
Water, Land and Air
Protection
Environmental
Stewardship
Division

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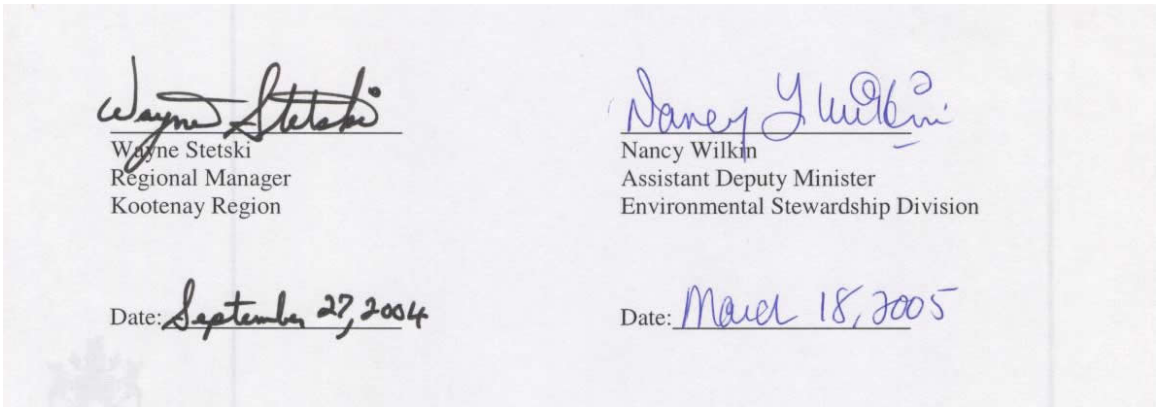
Gilnockie Creek Ecological Reserve Approvals Page

Foreword

This management direction statement for Gilnockie Creek Ecological Reserve provides management direction until such time as a more detailed management plan may be prepared. Gilnockie Creek Ecological Reserve was established to preserve an undisturbed area for silvicultural research on western larch, and a genetic bank for that species.

Approvals:



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Gilnockie Creek Ecological Reserve
Management Direction Statement

Introduction

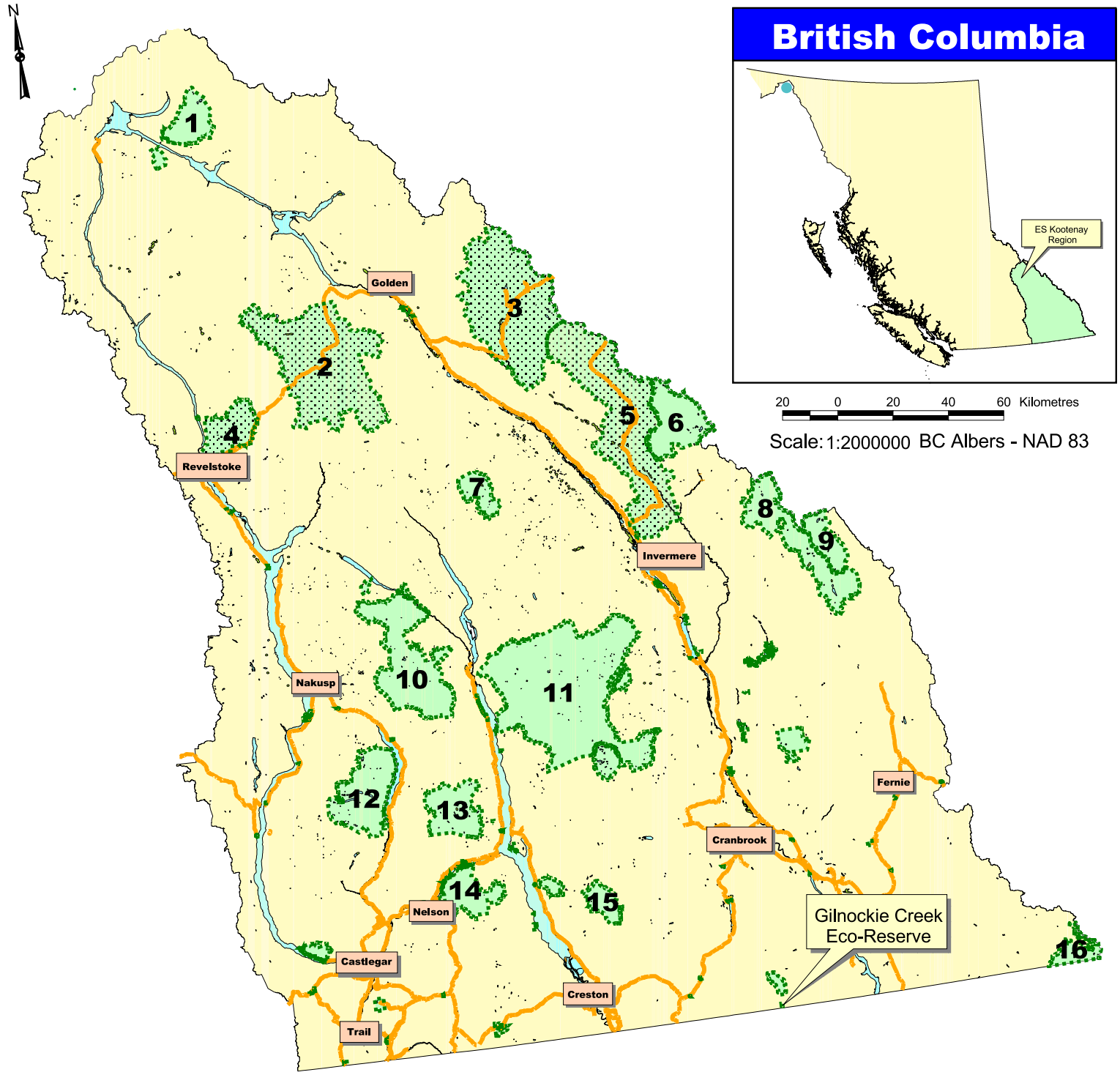
Purpose of the Management Direction Statement

Management direction statements (MDS) provide strategic management direction for protected areas that do not have a full management plan. MDS do not negate the need for future more detailed management plans. Management direction statements also describe protected area values, management issues and concerns; a management strategy focused on immediate priority objectives and strategies; and directional statements from other planning processes. While strategies may be identified in the MDS, the completion of all these strategies is subject to funding and funding procedures. In addition, all management strategies within the ecological reserve are subject to the Environmental Stewardship Division's Impact Assessment Policy. This management direction statement is intended to provide direction and guidelines for managing Gilnockie Creek Ecological Reserve for the foreseeable future.

Context

- Encompassing 58 hectares and situated within the McGillivary Range Ecosection.
- Located on the flat valley bottom of Gilnockie Creek at its confluence with the Yahk River, which drains southward into Montana.
- Established to protect rare old growth stands of western larch in the East Kootenay and to serve as a silvicultural research opportunity and genetic bank for the species.
- Original intent of the ecological reserve, along with Gilnockie Provincial Park, was to retain old growth representativeness in the McGillivary Range Ecosection and the Interior Cedar Hemlock Moist Cool (ICHmk) biogeoclimatic subzone/variant.
- Extensive logging in the Yahk River/Gilnockie Creek watershed has substantially reduced older age class western larch.
- A small wetland is located within the ecological reserve and contains a rare vascular plant (sweet marsh butterweed).
- Designated by Order in Council #1531 under the *Ecological Reserve Act* in 1981 and is presently listed and described in Schedule B of the *Protected Areas of British Columbia Act.*

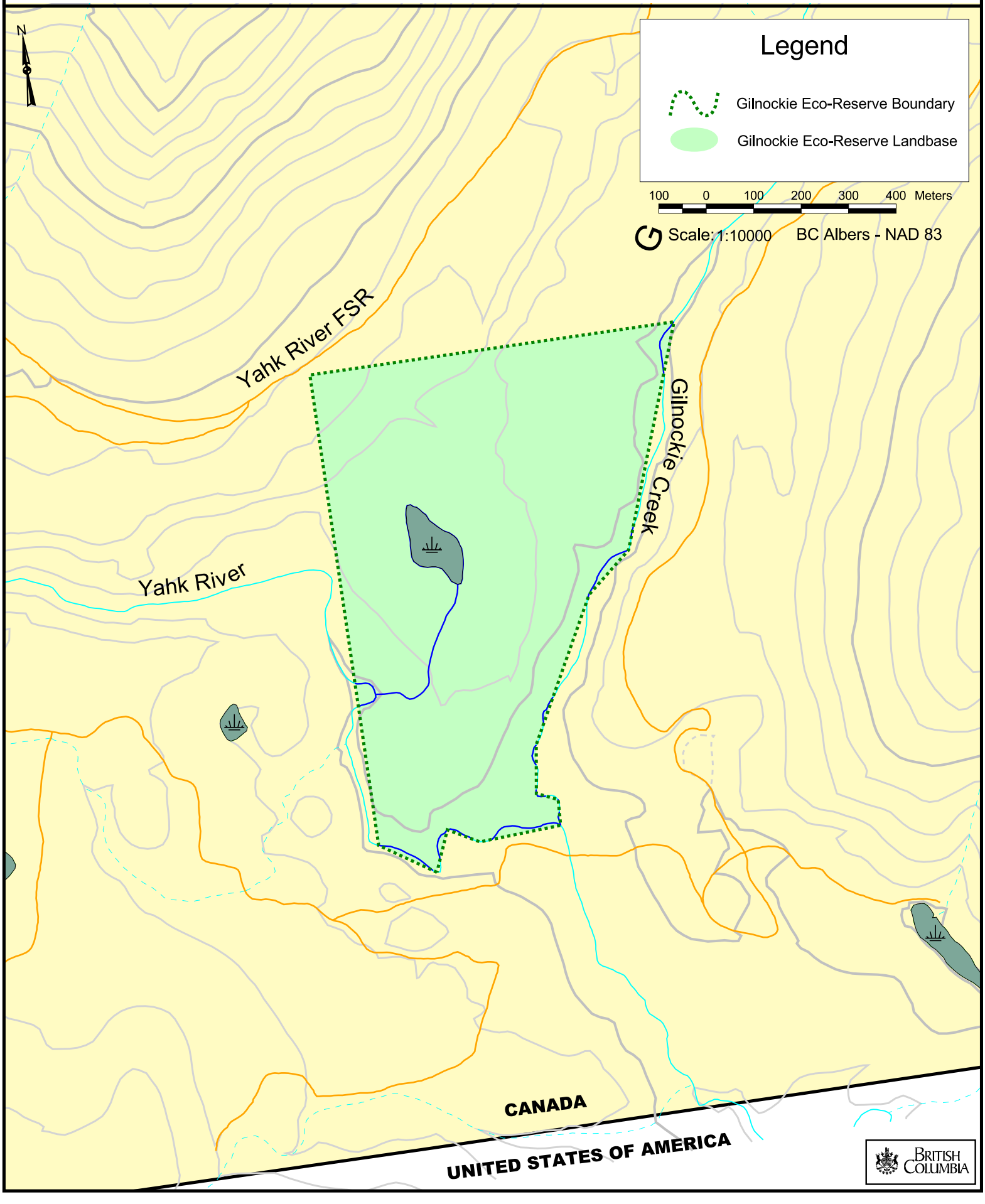
Figure 1: Context — Gilnockie Cr. Eco-Reserve



Major Provincial & National Parks - Kootenay Region	
1. Cummins Lakes Provincial Park	9. Elk Lakes Provincial Park
2. Glacier National Park	10. Goat Range Provincial Park
3. Yoho National Park	11. Purcell Wilderness Conservancy Park
4. Mt Revelstoke National Park	12. Valhalla Provincial Park
5. Kootenay National Park	13. Kokanee Glacier Provincial Park
6. Mt. Assiniboine Provincial Park	14. West Arm Provincial Park
7. Bugaboo Provincial Park	15. Kianuko Provincial Park
8. Height of the Rockies Provincial Park	16. Akamina-Kishinena Provincial Park

BRITISH COLUMBIA

Figure 2: Base Map — Gilnockie Cr. Eco-Reserve



Protected Area Attributes

Conservation

- Contains provincially significant old growth western larch.
- Situated in the under-represented McGillivray Range Ecosection (1 % protected province wide).
- Contains under-represented ICH mk1 biogeoclimatic subzone/variant (4% protected province wide).
- One red-listed plant species (sweet marsh butterweed[1]) occurs in the wetland portion.
- Offers habitat for elk and white tail deer.
- Offers habitat for a variety of avian species including American kestrel, ruffed grouse, red crossbill, gray jay, bald eagle, and evening grosbeak.
- Provides approximately 2 km of riparian habitat along both Gilnockie Creek and the Yahk River.
- Provides potential habitat for tailed frog (red-listed).

Cultural Heritage

- The Archaeological Registry (Ministry of Sustainable Resource Management) has no records of archaeological sites within the boundaries of the ecological reserve.
- First Nations' traditional uses within the ecological reserve included food harvesting, habitat uses and travel camp.

Education and Research

- Potential for silvicultural research on western larch.
- Serves as a genetic bank for old growth larch.
- Studies regarding habitat suitability/enhancement for tailed frog (possible partners: University of British Columbia and the Columbia Basin Fish and Wildlife Compensation Program).

Significance in the Protected Area System

- One of the few areas within the province where old growth western larch are preserved.
- Protects important riparian habitat along the lower reaches of Gilnockie Creek and the Yahk River.
- The small wetland provides suitable growing conditions for one vascular plant species at risk (sweet marsh butterweed).
- Provides streamside habitat that is suitable for geographically restricted populations of tailed frog (red listed).

[1] *Senecio foetidus* var. *hydrophiloides* (one of two varieties of *Senecio foetidus*) is commonly referred to as sweet marsh butterweed. Recently, the two varieties have taxonomically merged and are known solely as *Senecio hydrophiloides*.

- Complements a wildlife linkage zone with the United States through the Yahk River valley .

Land Use, Tenures and Interests

Access

Starting at Hwy 3, turn onto the Yahk Forest Service Road (south end of Moyie Lake). Follow the FSR for approximately 42 km. Ecological reserve boundary is approximately 1km west of bridge crossing at Gilnockie Creek.

Starting at Hwy 3/93, take Newgate Road across the Kootenay River to Caven Creek FSR. Follow the FSR for approximately 27 km to the Bloom Creek crossing onto Bloom Creek FSR. Yahk FSR begins approximately 18 km along the Bloom Creek FSR. Travel for another 19 km to reach the ecological reserve boundary. These roads are all very rough (4WD only).

Existing Tenures, Alienations and Encumbrances

None in the ecological reserve.

Adjacent Patterns of Land Use

- Trapping territories TR0404T004 (lic# RT132061) and TR0404T002 (Lic# RT129906) abut the ecological reserve.
- Guide Outfitter Territory #400423 surrounds the ecological reserve.
- Area falls within the Cranbrook Timber Supply Area.
- Forest Licence A19040 abuts the ecological reserve - (Cutting Permit (CP) 502- is immediately outside the ecological reserves's western boundary and to the east is CP 261-seperated by Gilnockie Creek).

First Nations Interests

- Ktunaxa Nation have included Gilnockie Creek Ecological Reserve within their asserted traditional territory.
- Management of the ecological reserve will require ongoing consultation with the Ktunaxa/Kinbasket Tribal Council.
- It is the request of the Ktunaxa/Kinbasket Tribal Council that the Chief and Council of both the Columbia Lake and Shuswap (Secwepemc) Indian Band be consulted with reference to any future management planning of the ecological reserve

Other Agency Interests

- Regional District of the East Kootenay (dealing with issues surrounding local government)
- Ministry of Water, Land and Air Protection
  - water protection, monitoring and reporting
  - enforcement of applicable acts and regulations
- Ministry of Sustainable Resource Management

- Land and Water British Columbia Inc. (responsibility for adjacent Crown land tenures)
- Ministry of Forests
  - Research Branch (involved with forest ecology, genetics and forest productivity)

Private and Public Stakeholder Interests

- *Friends of Ecological Reserves*
  Interest: promote the interests of the ecological reserves program in British Columbia, by raising public awareness of the ecological reserve program and by raising funds that are used to:
  - Support research in and around ecological reserves
  - Support wardens and the warden function within ecological reserves
  - Prepare and circulate a regular newsletter
  - Educate the public regarding the important features of ecological reserves, including plant and animal conservation, within BC

- *Centre for Applied Conservation Biology, UBC*
  Interest: confirming existence of tailed frogs within the East Kootenay and pursuing management directive of establishing Wildlife Habitat Areas. This would encompass confirming known populations and habitat to ensure the continued survival of tailed frogs in the East Kootenay.

Ecological Reserve Role Statement

The primary role of the Gilnockie Creek Ecological Reserve is to protect provincially rare old growth stands of western larch. Furthermore, the ecological reserve complements riparian and wetland values in a watershed that has undergone extensive logging.

The ecological reserve secondarily serves a research and education role by providing opportunities to study a remnant old growth ecosystem and its associated plant communities.

Photo 1 : Old growth larch in the Ecological Reserve

Management Commitments and Issues

Management Direction from Previous Planning

There has been no prior management direction for this ecological reserve.

Management Issues

Theme	Issue
Protecting ecological values	• Adjacent logging has created an ecological reserve which is essentially an island of old growth. • Edge effect on old growth values is unknown. • No rare and endangered species inventory has been conducted. • Lack of baseline ecological data and visitor use impact. • Limited staff presence. • Ecological Reserve Warden Program in this ecological reserve has been inactive for 10 years. • Current tailed frog habitat use and population is unknown.
Protecting cultural values	• Extent of traditional use within the ecological reserve is undetermined.
Providing ecological reserve information	• Currently, little information on the ecological reserve is available to the public. No boundary markers or signage is present informing public of sensitivity/formal designation of the site.

Management Direction

Priority Management Objectives and Strategies

Objective	Strategy
To mitigate adjacent logging impacts on the ecological reserve.	• Liaison with Forest Licencee and Ministry of Forests to ensure adequate buffers are placed along the ecological reserve boundary (as per MOU:The Management of Forestry Issues of Mutual Interest in Relation to Provincial Protected Areas 01/03) • Monitor edge effect (windthrow damage, species movement).
To increase knowledge of species diversity within the ecological reserve.	• Conduct rare and endangered species inventory. • Confirm existence of tailed frog and identify key habitat within the ecological reserve.
To manage reserve visitation to protect the reserve's ecological values.	• Initiate BRIM (Backcountry Receation Impact Monitoring) and gather ecological baseline data (e.g., Terrestrial Ecosystem Mapping/Predictive Ecosystem Mapping, site series classification, fire history). • Coordinate patrols of the ecological reserve with Gilnockie Provincial Park. • Reinstate Ecological Reserve Warden.
To protect the ecological reserve's cultural values.	• Work with First Nations to determine traditional use values, and work to protect these values.
To provide information to ecological reserve's visitors.	• Produce more accurate information about the ecological reserve through the internet. • Post signage (interpretive) informing public of the sensitivity of the site. Use enforcement tools to seek compliance.

Consultation and Future Planning

The Environmental Stewardship Division is accountable for planning, administration and management of the ecological reserve through the application of the *Ecological Reserve Act* and other relevant laws, regulations and policies.

Although no specific future planning is envisioned beyond the term of this management direction statement, the Environmental Stewardship Division will coordinate management of the ecological reserve with other agencies, the Regional District of the East Kootenay, various public stakeholders, and First Nations as required.

Photo 2:Wetland habitat of the Ecological Reserve

Appendix A: Table of Acceptable Uses, Activities and Facilities

Activity/Use/Facility	Acceptability
Aboriginal traditional activities and uses	**M**
Hunting	**N**
Fishing	**N**
Trapping	**N**
Utility Corridors	**N**
Communication Sites	**N**
Horse Use (Pack Animals)	**N**
Guide Outfitting (hunting)	**N**
Guide Outfitting (fishing)	**N**
Guide Outfitting (nature tours)	**N**
Ski hills	**N/A**
Grazing (Domestic Livestock)	**N**
Recreational Gold Panning/ Rock Hounding	**N**
Commercial Recreation (facility-based)	**N**
Commercial recreation (non-facility based)	**N**
Backcountry Huts	**N/A**
Water Control Structures	**N**
Fish Stocking and Enhancement	**N**
Road Access	**N**
Off-road Access (snowmobiling)	**N**
Off-road Access (motorized)	**N**
Off-road Access (mechanizedl activities)	**N**
Motorized Water Access (Non -swimming Areas)	**N/A**
Aircraft Access	**N/A**
Fire Management (suppression)	**N1**
Fire Management (prescribed fire management)	**N1**
Fire Management (prevention)	**N**
Forest Insect/Disease Control	**N1**
Noxious Weed Control	**Y**
Exotic Insect/Disease Control	**N1**
Scientific Research (specimen collection)	**N**
Scientific Research (manipulative activities)	**M**

Y= allowed, subject to conditions identified in the management direction statement or management plan
M= may be permitted if compatible with protected area objectives
N = not allowed
N1= allowed for expressed management purposes only
N2= present and allowed to continue, but not normally allowed
N/A = not applicable

Appendix B: Flora Species at Risk in the Rocky Mountain Forest District

(shading indicates confirmation in Gilnockie Creek Ecological Reserve)

Scientific Name	English Name	G Rank	Subnational	COSEWIC	BC Status
Allium validum	swamp onion	G4	S1		RED
Androsace chamaejasme ssp. *lehmanniana*	sweet-flowered fairy-candelabra	G5T5	S2S3		BLUE
Anemone canadensis	Canada anemone	G5	S2S3		BLUE
Apocynum x floribundum	western dogbane	G4G5	S2S3		BLUE
Arabis lemmonii var. *drepanoloba*	Lemmon's rockcress	G5T4?	S2S3		BLUE
Arnica chamissonis ssp. *incana*	meadow arnica	G5T?	S2S3		BLUE
Artemisia ludoviciana var. *incompta*	western mugwort	G5T?	S2S3		BLUE
Astragalus bourgovii	Bourgeau's milk-vetch	G5	S3		BLUE
Astragalus crassicarpus	ground plum	G5	S1		RED
Astragalus drummondii	Drummond's milk-vetch	G5	S1		RED
Astragalus microcystis	least bladdery milk-vetch	G5	S1		RED
Astragalus vexilliflexus var. *vexilliflexus*	bent-flowered milk-vetch	G4T?	S2S3		BLUE
Atriplex argentea ssp. *argentea*	silvery orache	G5T5	S1		RED
Besseya wyomingensis	Wyoming kitten-tails	G5	S2S3		BLUE
Botrychium crenulatum	dainty moonwort	G3	S2S3		BLUE
Botrychium simplex	least moonwort	G5	S2S3		BLUE
Bouteloua gracilis	blue grama	G5	S1		RED
Brickellia grandiflora	large-flowered brickellia	G5	S1	NAR (1996)	RED
Bupleurum americanum	American thorough-wax	G5	S2S3		BLUE
Carex geyeri	elk sedge	G5	S3		BLUE
Carex incurviformis var. *incurviformis*	curved-spiked sedge	G4G5T4T5	S2S3		BLUE
Carex lenticularis var. *lenticularis*	lakeshore sedge	G5T5	S2		RED
Carex paysonis	Payson's sedge	G4	S2S3		BLUE
Carex rupestris ssp. *drummondiana*	curly sedge	G5T5	S2S3		BLUE
Carex saximontana	Rocky Mountain sedge	G5	S3		BLUE
Carex sychnocephala	many-headed sedge	G4	S3		BLUE
Carex xerantica	dry-land sedge	G5	S2S3		BLUE
Castilleja cusickii	Cusick's paintbrush	G4G5	S1		RED
Cheilanthes gracillima	lace fern	G4G5	S2S3		BLUE
Cirsium scariosum	elk thistle	G5	S2S3		BLUE
Claytonia megarhiza var. *megarhiza*	alpine springbeauty	G4?T?	S2S3		BLUE
Cryptantha ambigua	obscure cryptantha	G4	S2		RED
Delphinium bicolor ssp. *bicolor*	Montana larkspur	G4G5T?	S2S3		BLUE
Draba densifolia	Nuttall's draba	G5	S2S3		BLUE
Elodea nuttallii	Nuttall's waterweed	G5	S2S3		BLUE
Epilobium leptocarpum	small-fruited willowherb	G5	S2S3		BLUE
Epilobium pygmaeum	smooth spike-primrose	G5	SH		RED
Scientific Name	**English Name**	**G Rank**	**Subnational**	**COSEWIC**	**BC**

					Status
Epilobium saximontanum	Rocky Mountain willowherb	G5	S2S3		BLUE
Epipactis gigantea	giant helleborine	G3	S2S3	SC (1998)	BLUE
Erigeron ochroleucus var. *scribneri*	buff daisy	G5T5	S2S3		BLUE
Erigeron ochroleucus var. *scribneri*	buff daisy	G5T5	S2S3		BLUE
Erigeron trifidus	three-lobed daisy	G2G3	S2		RED
Eriogonum androsaceum	androsace buckwheat	G4G5	S2S3		BLUE
Eriogonum pauciflorum var. *pauciflorum*	few-flowered buckwheat	G5T5	SH		RED
Gaura coccinea	scarlet gaura	G5	S1		RED
Gayophytum humile	dwarf groundsmoke	G5	S2S3		BLUE
Gayophytum racemosum	racemed groundsmoke	G5	S1		RED
Gayophytum ramosissimum	hairstem groundsmoke	G5	S1		RED
Gentiana affinis	prairie gentian	G5	S2S3		BLUE
Gentiana calycosa	mountain bog gentian	G4	S2S3		BLUE
Glycyrrhiza lepidota	wild licorice	G5	S2		RED
Hedeoma hispida	mock-pennyroyal	G5	S1		RED
Helenium autumnale var. *grandiflorum*	mountain sneezeweed	G5T?	S2S3		BLUE
Helianthus nuttallii var. *nuttallii*	Nuttall's sunflower	G5T5	S1		RED
Heterocodon rariflorum	Heterocodon	G5	S3		BLUE
Hypericum scouleri ssp. *nortoniae*	western St. John's-wort	G5T?	S2S3		BLUE
Impatiens ecalcarata	spurless touch-me-not	G3G4	S2S3		BLUE
Isoetes howellii	Howell's quillwort	G4G5	S1		RED
Juncus confusus	Colorado rush	G5	S1		RED
Juncus regelii	Regel's rush	G4?	S3		BLUE
Lathyrus bijugatus	pinewood peavine	G4	S1		RED
Lepidium densiflorum var. *pubicarpum*	prairie pepper-grass	G5T4	S1		RED
Lewisia triphylla	three-leaved lewisia	G4?	S2S3		BLUE
Linanthus septentrionalis	northern linanthus	G5	S2S3		BLUE
Lomatium sandbergii	Sandberg's desert-parsley	G4	S2S3		BLUE
Lomatium triternatum ssp. *platycarpum*	nine-leaved desert-parsley	G5T?	S2		RED
Lupinus arbustus ssp. *neolaxiflorus*	spurred lupine	G5T?	SH		RED
Lupinus arbustus ssp. *pseudoparviflorus*	Montana lupine	G5T?	S1		RED
Lupinus bingenensis var. *subsaccatus*	Suksdorf's lupine	G4G5T?	S1		RED
Melica spectabilis	purple oniongrass	G5	S2S3		BLUE
Minuartia austromontana	Rocky Mountain sandwort	G4	S2S3		BLUE
Minuartia elegans	northern sandwort	G4G5	S2S3		BLUE
Minuartia nuttallii ssp. *nuttallii*	Nuttall's sandwort	G5T4T5	S2S3		BLUE
Muhlenbergia filiformis	slender muhly	G5	S1		RED
Orobanche corymbosa ssp. *mutabilis*	flat-topped broomrape	G4T3?	S2		RED
Orobanche ludoviciana	Suksdorf's broomrape	G5T5	S1		RED
Scientific Name	**English Name**	**G Rank**	**Subnational**	**COSEWIC**	**BC**

					Status
Papaver pygmaeum	dwarf poppy	G3	S2S3		BLUE
Pellaea gastonyi	Gastony's cliff-brake	G2G3	S2		RED
Penstemon nitidus var. *nitidus*	shining penstemon	G5T?	S1		RED
Phacelia lyallii	Lyall's phacelia	G3G4	S2S3		BLUE
Physaria didymocarpa var. *didymocarpa*	common twinpod	G5T4	S2S3		BLUE
Plantago canescens	arctic plantain	G4G5	S2S3		BLUE
Plantago eriopoda	alkali plantain	G5	S1		RED
Polemonium elegans	elegant Jacob's-ladder	G4	S2S3		BLUE
Polygonum douglasii ssp. *austiniae*	Austin's knotweed	G5T4	S2S3		BLUE
Polygonum douglasii ssp. engelmannii	Engelmann's knotweed	G5T?	S2S3		BLUE
Potentilla diversifolia var. perdissecta	diverse-leaved cinquefoil	G5T4	S2S3		BLUE
Potentilla nivea var. pentaphylla	five-leaved cinquefoil	G5T4	S2S3		BLUE
Potentilla ovina var. ovina	sheep cinquefoil	G5?T5?	S2S3		BLUE
Prenanthes sagittata	arrow-leaved rattlesnake-root	G3G4	S1		RED
Salix boothii	Booth's willow	G5	S2S3		BLUE
Schizachyrium scoparium	little bluestem	G5	S1		RED
Scolochloa festucacea	Rivergrass	G5	S2		RED
Scutellaria angustifolia	narrow-leaved skullcap	G5	S2S3		BLUE
Senecio conterminus	high alpine butterweed	G3	S2S3		BLUE
Senecio hydrophiloides	sweet-marsh butterweed	G4G5	S1		RED
Senecio megacephalus	large-headed groundsel	G4?	S2S3		BLUE
Silene drummondii var. drummondii	Drummond's campion	G5T5	S3		BLUE
Silene spaldingii	Spalding's campion	G2	S1		RED
Sphaeralcea coccinea	scarlet globe-mallow	G5?	S1		RED
Sphenopholis intermedia	slender wedgegrass	G5	S2		RED
Stellaria obtusa	blunt-sepaled starwort	G5	S2S3		BLUE
Thermopsis rhombifolia	prairie golden bean	G5	S1		RED
Townsendia hookeri	Hooker's townsendia	G5	S2		RED
Townsendia parryi	Parry's townsendia	G4?	S1		RED
Valeriana edulis ssp. edulis	edible valerian	G5T5	S2S3		BLUE
Veronica catenata	pink water speedwell	G5	S1		RED

Appendix C: Fauna Species at Risk in the Rocky Mountain Forest District

Scientific Name	English Name	G Rank	Subnational	COSEWIC	BC Status
Aeronautes saxatalis	White-throated Swift	G5	S3S4B,SZN		BLUE
Ardea herodias herodias	Great Blue heron, *herodias* subspecies	G5T5	S3B,S4N		BLUE
Ascaphus montanus	Rocky Mountain Tailed Frog	G4	S1	E (May 2000)	RED
Asio flammeus	Short-eared Owl	G5	S3B,S2N	SC (1994)	BLUE
Botaurus lentiginosus	American Bittern	G4	S3B,SZN		BLUE
Buteo swainsoni	Swainson's Hawk	G5	S2B,SZN		RED
Chrysemys picta	Painted Turtle	G5	S3S4		BLUE
Clethrionomys gapperi galei	Southern Red-backed Vole, *galei* subspecies	G5T?Q	S3S4		BLUE
Colias meadii	Mead's Sulphur	G4G5	S3		BLUE
Cottus bairdi hubbsi	Mottled Sculpin, hubbsi subspecies	G5T4Q	S3	SC (MAY 2000)	BLUE
Dolichonyx oryzivorus	Bobolink	G5	S3B,SZN		BLUE
Everes comyntas	Eastern Tailed Blue	G5	S3		BLUE
Falco mexicanus	Prairie Falcon	G5	S2B,SZN	NAR (1996)	RED
Falco peregrinus anatum	Peregrine Falcon, *anatum* subspecies	G4T3	S2B,SZN	T (MAY 2000)	RED
Grus canadensis	Sandhill Crane	G5	S3S4B,SZN	NAR (1979) G. canadensis tabida assessed	BLUE
Gulo gulo luscus	Wolverine, *luscus* subspecies	G4T4	S3	SC (1989) WESTERN POPULATION ONLY	BLUE
Lycaena dione	Dione Copper	G5	S1		RED
Martes pennanti	Fisher	G5	S3		BLUE
Melanerpes lewis	Lewis's Woodpecker	G4	S3B,SZN	SC (NOV 2001)	BLUE
Myotis septentrionalis	Northern Long-eared Myotis	G4	S2S3		BLUE
Numenius americanus	Long-billed Curlew	G5	S3B,SZN	SC (1992)	BLUE
Oncorhynchus clarki lewisi	Cutthroat Trout, *lewisi* subspecies	G4T3	S3SE		BLUE
Otus flammeolus	Flammulated Owl	G4	S3S4B,SZN	SC (NOV 2001)	BLUE
Otus kennicottii macfarlanei	Western Screech-Owl, *macfarlanei* subspecies	G5T4	S1	E (MAY 2002)	RED

Scientific Name	English Name	G Rank	Subnational	COSEWIC	BC Status
Ovis canadensis	Bighorn Sheep	G4	S2S3		BLUE
Parnassius clodius altaurus	Clodius Appolo, *altaurus* subspecies	G5T3T4	S3S4		BLUE
Pyrgus communis	Checkered Skipper	G5	S3		BLUE
Rana pipiens	Northern Leopard Frog	G5	S1	E (May 2000)	RED
Rangifer tarandus pop. 1	Caribou (southern population)	G5T2Q	S2	T (MAY 2000) SC (MAY 2002) COSEWIC recognizes two	RED
Salvelinus confluentus	Bull Trout	G3	S3		BLUE
Sphyrapicus thyroideus nataliae	Williamson's sapsucker, *nataliae* subspecies	G5TU	S1S2B		RED
Tamias minimus oreocetes	Least Chipmunk, *oreocetes* subspecies	G5T3	S2S3		BLUE
Tamias ruficaudus ruficaudus	Red-tailed Chipmunk, *ruficaudus* subspecies	G5T5	S2		RED
Taxidea taxus	Badger	G5	S1	E (May 2000)	RED
Tympanuchus phasianellus columbianus	Sharp-tailed Grouse, *columbianus* subspecies	G4T3	S2S3		BLUE
Ursus arctos	Grizzly Bear	G4	S3	SC (MAY 2002)	BLUE