

Glacier Raft Company Ltd. Rafting on the Kicking Horse River Since 1982



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Executive Statement and Summary

Ryan Johannesen acquired Glacier Raft Company Ltd. ("GRC") effective April 1, 2010 from Jim Murphy and is currently its sole shareholder, director and President. Prior to acquisition Ryan guided for GRC on the Kicking Horse River for nine seasons, working his way up to Senior Trip Leader and River Manager.

GRC was started in 1982 and, in its early years, rafted on several different rivers in the Golden and upper East Kootenay areas, including: the Kicking Horse River, Toby Creek, Columbia River and the White River. While in recent years GRC restricted itself to rafting the Kicking Horse River, the company now plans to expand operations over the next few years to include several other rivers in the East Kootenay area. As a resident of Golden who enjoys and benefits from the East Kootenay's outstanding outdoor lifestyle, Ryan's general goals are to enhance his community's local employment opportunities and to augment the sustainable growth, development and diversification of the local economy. He hopes to achieve these goals by increasing GRC's business - in particular, by offering other rafting and adventure opportunities on portions of rivers such as the Blaeberry, Columbia, White and Kootenay. GRC's priority, as it always has been, is to offer interesting and exciting adventure and natural history rafting opportunities to residents and tourists in a sustainable, safe, and professional manner.

While the Kicking Horse River is great for people looking for a whitewater thrill, by adding other rivers GRC can offer more relaxed whitewater and non-whitewater options for those whose interests lean towards gentler or more natural history oriented water trips. For the 2011 season GRC intends to offer daily rafting trips on portions of the Blaeberry and Columbia rivers near Golden and a few 2-3 day expedition trips on the White and Kootenay rivers, near Radium.

Ryan Johannesen
President

General Overview

GRC offers daily whitewater rafting trips based out of Golden British Columbia. The Company has been operating on the Kicking Horse River since 1982.

Existing

In accordance with its current management plan, GRC offers full and half-day whitewater rafting trips on the Kicking Horse river from May to September each year. The more intense usage along the river occurs at the put-in's, take-outs and lunch spots including:

- the Beaverfoot bridge - the primary put-in
- Hunter creek as the primary lunch spot and half-day trip put-in
- the Kicking Horse Rest Area (Glenogle) as the upper take-out
- CPR access road and property for the Lower Canyon put-in
- Golden municipality land, near GRC's office, for the primary or last take-out

GRC has always employed the highest existing standard of professionally certified river guides. Since the movement of our governing legislation from the Province to the Federal Government fell through the cracks a few years ago, we as a part of the BC River Outfitters Association have maintained the old Provincial standards as a minimum requirement for our guides. Among other things, these standards include advanced first aid and swift water rescue training, the latter provided by Rescue Canada.

Key Areas of Concern

- There are no areas of concern with current operations on the Kicking Horse River at this time.
- No concern regarding wildlife, fish, forestry or First Nations have identified in recent years.
- Canadian Rockies Rafting has expressed interest in using an area near the Hunter Creek lunch site location in the past. GRC will work things out should this ever turn into a reality.

Memberships

BCROA – British Columbia River Outfitters Association
KHROA – Kicking Horse River Outfitters Association
Town of Golden Business License
Tourism Golden Member

1.1 General Description of Operation

1.1.1 General Area

GRC Operates in the Kicking Horse river canyon and in the Columbia Valley area based out of Golden British Columbia. Beginning in 2011 GRC will offer daily rafting trips on the Kicking Horse, Blaeberry and Columbia rivers as

well as a few demand based expedition raft trips on the White and Kootenay rivers.

- See maps

1.1.2 Base Operation

Primary staging areas for GRC are on the northwest side of the Beaverfoot bridge on Beaverfoot Road for full day trips and at the Hunter Creek lunch site for half-day and scenic float trips. GRC has no plans to change these staging locations in the future unless highway access forces us to. GRC uses a back up put-in location at Palliser if running a special trip.

- See maps # 1-3

1.1.3 Improvements

Kicking Horse River Tenure Amendments

Hunter Creek lunch site - 51°15'49.37"N, 166°44'45 22"W

- Upgrade from a "no trace" extensive use site to an **Intensive** use site to allow upgrading of the lunch shelter structure, storage bins, access road and paths and immediately surrounding areas. The purpose of these changes is to increase site safety and comfort for customers and GRC staff, increase site security for GRC assets and improve site aesthetics. See below and attached map #3
- Temporary portable toilets, pumped out weekly, will continue to be used

Palliser Put-in

- Optional put-in and **Intensive** use site. Will not be use daily. Only on days with special trips. No immediate plans for site modifications or additions.
- See map # 2

New Rivers

Blaeberry River

- New for GRC in 2011. Daily trips on the Blaeberry river – being a float with some class 1 and 2 rapids
- Two hour trip. Put-in and take-out shown in aerial pictures below and on attached maps
- Additionally, road access about $\frac{3}{4}$ of the way through the trip, via Golden Upper Donald Bridge, for potential early take-out
- See attached maps # 4 & 5

Columbia River

- New for GRC in 2011. Daily scenic float trips on class 1 water, likely in the late afternoon and early evening
- Three hour float from Nicholson Bridge to Golden Airport

- See attached maps # 6 & 7

White/Kootenay Rivers

- New for GRC in 2011. Two to three day expedition trips starting on the White River and ending on the Kootenay River
- Camp sites will be at the established roads and access outside of the Provincial Park
- See attached maps # 8-11

1.1.4 Access

Kicking Horse River

- Access via Trans Canada highway at Beaverfoot Road, Palliser, Hunter Creek, Glenogle, CPR lower canyon road, 7th street north in the town of Golden

Blaeberry River

- Access via Trans Canada highway at Moberly School Road, Blaeberry FSR and Blaeberry River Road

Columbia River

- Access via Highway 95 at Nicholson Road, Canyon Creek Road, and take-out on Fisher Road in the town of Golden

White/Kootenay Rivers

- Access via Highway 95 at Whiteswan FSR, White River FSR, Kootenay FSR and Nine Mile FSR

1.1.5 Staff

Staff Category	# of Employees/Contractors	Experience and or Certificates
River Guides (River manager, Trip Leaders, Senior Guides, Guides)	6	➤ Advanced First Aid ➤ Swiftwater Rescue Tech. ➤ Meet/exceed BCROA stds. ➤ Previous Guide Experience
Bus Drivers	2	➤ Class 2 drivers license ➤ Prior Bus driving experience ➤ First Aid
Truck Drivers	2	➤ Class 5 drivers license ➤ Prior experience with truck and trailer
Office Staff	2	Experience in: ➤ customer service ➤ reservations ➤ handling cash ➤ phones ➤ warehouse tasks

1.2 Commercial Recreation Activities Offered On Crown Land

1.2.1 Description of Experience being offered

- Guided whitewater and scenic rafting trips on the Kicking Horse, Blaeberry, Columbia, and White/Kootenay Rivers in British Columbia
- Season starts in May and, depending on water levels, can run to the second week of September

Typical Full-Day Trip Description: Kicking Horse River

Customers:

- arrive at GRC office in Golden at 9am
- check in, pay, have coffee, go to waiting area until all arrive
- Listen to lead guide give morning talk explaining/discussing:
 - generally, how the day will run
 - what clothing and gear will be worn
 - what not to wear
 - need for and meaning of liability waiver forms
 - some safety issues (others covered later on bus or at put-in)
 - assessment of group experience, strength, etc.
 - group comfort, asking for and answering questions
- read, indicate understanding of, then sign waivers
- Change into wetsuits, booties, fleeces and spray jackets
- listen to bus driver's bus/road/transit safety talk
- take 25 minute bus ride to Beaverfoot bridge put-in
- listen to lead guide give thorough safety briefing covering all hazards and risks on the river, risk reduction and prevention behaviors, and what to do in case something happens
- put on helmets and lifejackets
- raft "scenic float" section, about an hour, to Hunter creek lunch spot
- receive lunch; half-day customers arrive and receive safety briefing
- depart Hunter Creek at 1pm; raft the upper canyon section
- arrive at Glenogle take-out at 2:15pm, load rafts onto trailers
- board bus to lower canyon put-in, (half-day'ers bus back to GRC office)
- walk down to put-in; help unload/carry rafts to river edge
- raft the hour long lower canyon to shore beside GRC office,
- carry boats the short walk to GRC office arriving at 3:30pm
- change, have a drink, socialize, view/buy the trip's video and photos

On a busy weekend we may run a second upper/lower canyon trip at 4:30pm if there is demand.

Typical Day: Blaeberry River Scenic, Mild Whitewater, Float

Blaeberry Class 2 whitewater raft trips will be offered on weekends and a few weekdays per week. Customers:

- arrive at GRC office in Golden at 4:30 pm
- check in, pay, have refreshment, go to waiting area until all arrive
- listen to lead guide give talk explaining/discussing:
 - generally, how the day/evening will run
 - what clothing and gear will be worn
 - what not to wear
 - need for and meaning of liability waiver forms
 - some safety issues (others covered later on bus or at put-in)
 - assessment of group experience, strength, etc.
 - group comfort, asking for and answering questions
- read, indicate understanding of, then sign waivers
- change into wetsuits, booties, fleeces and spray jackets, as needed
- listen to bus driver's bus/road/transit safety talk
- depart at 5 p.m. on 30 minute bus ride to Blaeberry FSR put-in
- listen to lead guide give thorough safety briefing covering all hazards and risks on the river, risk reduction and prevention behaviors, and what to do in case something happens
- put on helmets and lifejackets
- raft for scenic 2.5 hours to the Blaeberry River Road take-out
- load rafts and gear, ride for 15 minutes back to GRC office
- change, have a drink, socialize, view/buy the trip's video and photos

Typical Day: Columbia River Scenic Float

Columbia Class 1 scenic float trips will be offered as late afternoon or evening trips, or as custom booked trips. Customers will:

- arrive at GRC office in Golden at 4:30 pm
- check in, pay, have refreshment, go to waiting area until all arrive
- listen to lead guide give talk explaining/discussing:
 - generally, how the day/evening will run
 - what clothing and gear will be worn
 - what not to wear
 - need for and meaning of liability waiver forms
 - some safety issues (others covered later on bus or at put-in)
 - assessment of group experience, strength, etc.
 - group comfort, asking for and answering questions
- read, indicate understanding of, then sign waivers
- change into appropriate river gear for class 1 water, as needed
- listen to bus driver's bus/road/transit safety talk
- depart at 5 pm on 15 minute drive to the Nicholson Bridge put-in
- listen to lead guide give thorough safety briefing covering all hazards and risks on the river, risk reduction and prevention behaviors, and what to do in case something happens
- put on lifejackets and enjoy a 3 hour sightseeing, wildlife viewing float to the Golden airport adjacent Fisher Road take-out

- five minute ride back to GRC office
- change, have refreshment, socialize

Typical Trip: White/Kootenay Rivers (multi day)

This trip will run based upon demand only. Tentative dates will be set with a required minimum number of customers needed in order to run. The logistics will be adjusted and finalized to meet the needs of the trip group. Generally, customers will:

- check in at GRC office in early a.m., pay (if not already done, have refreshment, go to waiting area until all arrive
- Listen to lead guide give talk explaining/discussing:
 - generally, how the 2-3 days will run
 - check customer's clothing/gear for safety and adequacy
 - need for and meaning of liability waiver forms
 - some safety issues (others covered later on bus or at put-in)
 - assessment of group experience, strength, etc.
 - group comfort, asking for and answering questions
- read, indicate understanding of, then sign waivers
- load personal gear into van/bus
- listen to bus driver's bus/road/transit safety talk
- drive a few hours to White River FSR bridge put-in
- help unload rafts and gear
- change into wetsuits, booties, fleeces and spray jackets
- listen to lead guide give thorough safety briefing covering all hazards and risks on the river, risk reduction and prevention behaviors, and what to do in case something happens
- put on helmets and lifejackets, begin trip
- run the upper White River whitewater section, to the just above Whiteswan FSR, twice on the first day
- driver watches rafters from shore, then carries gear and sets up camp
- have dinner and camp at the proposed White River camp site
- raft the lower river next morning
- lunch stop at White/Kootenay confluence
- raft a few hours on Kootenay to the Nine Mile FSR bridge take-out
- load van/bus/trailer and ride to planned restaurant dinner
- after meal, ride to GRC office, view video/photos, debrief

1.2.2 Detailed Listing of Activities and Level of use
Table 1.1 Extensive Areas of Use

Activity Report					Client Days					
Extensive Area Map Reference	Activity	Specific References On Map	Frequency Of Use	Period Of Use	Existing Or Proposed Use	Current Year	Next Year	Year 3	Full Cap.	Year Full Cap. Is Reached
Beaverfoot Map #1	Rafting	All Crown Sites Highlighted On Maps	Daily	May-Oct	No Trace Site Put In	Kicking Horse River 1926 visitors	2100	2500	4000	2015
Paliser Map #2	Rafting	All Crown Sites Highlighted On Maps	Infrequent	May-Oct	Intensive					
Hunter Creek Map #3	Rafting	All Crown Sites Highlighted On Maps	Daily	May-Oct	Intensive					
Glenogle (not Crown land)	Rafting	All Crown Sites Highlighted On Maps	Daily	May-Oct	Intensive					
Lower Put in (not Crown Land)	Rafting	All Crown Sites Highlighted On Maps	Daily	May-Oct	No Trace					
Blaeberry FSR Map # 4	Rafting	All Crown Sites Highlighted On Maps	1-4 times per week	May-Oct	No Trace Put in	Blaeberry River N/A	50	100	300	2015
Blaeberry River Rd. Map # 5	Rafting	All Crown Sites Highlighted On Maps	1-4 times per week	May-Oct	No Trace Take out					
Columbia-Nicholson Bridge Map # 6	Rafting	All Crown Sites Highlighted On Maps	1-4 times per week	May-Oct	No Trace Put in	Columbia River N/A	50	100	300	2015

Columbia-Fisher Rd. Map # 7	Rafting	All Crown Sites Highlighted On Maps	1-4 times per week	May-Oct	No Trace Take out				
White River FSR Map # 8	Rafting	All Crown Sites Highlighted On Maps	1-3 times per Summer	May-Oct	Intensive	White River N/A	10	20	40 2015
White River Camp site Map # 9	Rafting	All Crown Sites Highlighted On Maps	1-3 times per Summer	May-Oct	Intensive				
Kootenay/White Confluence Rec Site Map # 10	Rafting	All Crown Sites Highlighted On Maps	1-3 times per Summer	May-Oct	Intensive				
Nine Mile FSR Map # 11	Rafting	All Crown Sites Highlighted On Maps	1-3 times per Summer	May-Oct	Intensive				

1.2.3 Improvements

Kicking Horse River:

- Hunter Creek and Palliser upgrading to Intensive Use Sites.
- Trail access maintenance and improvements, hazard tree removal and other safety improvements, as needed or desired.
- Larger lunch structure to be built over the next couple of years at Hunter Creek.
- Toilets will remain self-contained outhouses pumped once per week at Hunter Creek.
- Possible Tree removal for larger lunch area at Hunter Creek.
- Possible storage container at Hunter Creek site.
- Possible aesthetic improvements.

Other Rivers:

- Everything on the Blaeberry, Columbia and White/Kootenay Rivers is new for GRC and therefore no site modifications are planned at this time.
- Only maintenance and regular upkeep will be performed to maintain GRC's "no trace" policy and otherwise leave sites in the best condition possible.

1.4 Intensive Use Sites

Kicking Horse River

Beaverfoot Bridge Put-In: as per map

- 0.40ha on NW side of bridge.
- Put-in only, No Trace Site.
- Used daily.
- 0.16ha on SE side of bridge as a “back up only” put-in

Palliser: as per map

- 0.50ha Proposed Intensive Use Site on N side of river.
- Currently a No Trace Site
- To be used sporadically
- No plan for any structures or modifications

Hunter Creek: as per map

- 0.18ha proposed Intensive Use Site on N side of river.
- Used daily.
- Lunch site, as well as half-day trips put-in and take-out site
- Currently No Trace Site.
- Possible improvements include lunch shelter, trails, portable toilets, hazard tree removal and other safety improvements, storage container, maintenance and aesthetic improvements.

Glenogle: No Map. Highway’s Land.

- Continued use of the Glenogle Take Out and rest area.
- Daily use.

Lower Canyon: No Map. CPR land. Continued use of Canadian Pacific railway land at the Lower Canyon access road and Put-in. Take-out is on the river shore adjacent to the GRC office in Golden.

- Daily use.

Blaeberry River

Blaeberry FSR: as per map

- 0.25ha on NW of Blaeberry River FSR bridge.
- Put-in only. No Trace
- Used 1-4 times per week.

Blaeberry River Road: as per map

- 0.25ha on W side of river S of Trans Canada Bridge.
- Take-out. No Trace Site
- Used 1-4 times per week.

Columbia River (Put in and take out may not be on Crown Land. TBD)
Nicholson Bridge: as per map

- 0.25ha on NE side of bridge.
- Put-in. No Trace Site.
- Used 1-4 times per week.

Fisher Road: as per map

- 0.75ha on N side of river.
- Take-out, No Trace Site.
- Used 1-4 times per week.

White River/Kootenay River

White River FSR Bridge: as per map

- 0.84ha on SW side of bridge.
- Put-in. Intensive use site.
- Staging for multiday trip.
- Used 1-4 times per season.

White Camp Site: as per map

- 3.12ha on N sides of bridge outside of park.
- Take-out/put-in. Intensive use site. Tent camp site.
- Used 1-4 times per season.

Kootenay/White River Confluence: as per map

- 3.27ha on N side of river.
- Intensive use site. Tent camp site. Put-in/take-out.
- Used 1-4 times per season.

Nine Mile FSR Bridge: as per map

- 0.40ha on SW side of bridge.
- Take-out, No Trace Site.
- Used 1-4 times per season.

Table 1.2 Details of Intensive use sites

Intensive use Map Reference	Intended Use	Frequency Of Use	Period of Use	Desired Exclusivity	Existing or Proposed Improvements	Environmentally Sensitive Area	Distance To Environ Sensitive Area
#1 Beaver Foot	Put in No Trace	Daily	May-Oct	Currently Shared (CRR)		Located next to river	Located next to River
#2 Palliser	Put in Intensive Use	Rarely	May-Oct	Shared		Located next to River	Located next to River
#3 Hunter Creek #3.5	Lunch Put in Take out Intensive Use	Daily	May-Oct	Would like Exclusive Currently Shared (CRR)	Lunch Shelter Trail Main.. Some Tree Removal. Storage.	Located next to River	Located next to River

Hunter Creek Layout					Temp Portable Toilets		
#4 Blaeberry FSR	Put in No trace	1-4 times per week	May-Oct	Exclusive		Located next to River	Located next to River
#5 Blaeberry River Rd	Take out No trace	1-4 times per week	May-Oct	Exclusive		Located next to River	Located next to River
#6 Nicholson Bridge	Put in No trace	1-4 times per week	May-Oct	Exclusive		Located next to River	Located next to River
#7 Fisher Rd	Take Out No trace	1-4 times per week	May-Oct	Exclusive		Located next to River	Located next to River
#8 White River Br.	Put in Intensive Use	1-4 times per season	May-Oct	Shared		Located next to River	Located next to River
#9 WhiteRiver Camp	Put in Take out Tent camp Intensive use	1-4 times per season	May-Oct	Shared		Located next to River	Located next to River
#10 Kootenay/ White River Confluence	Put in Take out Tent camp Intensive use	1-4 times per season	May-Oct	Shared		Located next to River	Located next to River
#11 Nine Mile FSR Bridge	Take out No trace	1-4 times per season	May-Oct	Shared		Located next to River	Located next to River

2.0 Overlap with Environmental and Cultural Values

2.1, 2.2, 2.3 Fish, Wildlife and Other Environmental Values

- GRC operations have little or no known effect on habitat or wildlife values in any areas in which GRC runs trips. Fish, wildlife, and their habitats are integral aspects of our tours - benefiting us greatly - and therefore GRC has and will continue to focus on maintaining and, where possible, improving the fish and wildlife habitat throughout our areas of operation. GRC regularly takes steps to minimize any foreseen impact that our operations may have by, for example, using existing access roads previously or currently used for logging, mining, forestry, CPR access (and currently being used extensively by the Ministry of Highways contractors on the Trans Canada Highway project). GRC also uses the least number of vehicles possible on a road, sometimes parking on highway or CPR sites rather than on riverbank or

takes steps to minimize any foreseen impact that our operations may have by, for example, using existing access roads previously or currently used for logging, mining, forestry, CPR access (and currently being used extensively by the Ministry of Highways contractors on the Trans Canada Highway project). GRC also uses the least number of vehicles possible on a road, sometimes parking on highway or CPR sites rather than on riverbank or unspoiled ground. As all GRC vehicles must be regularly maintained and checked for safety, and must be reliable for heavy regular use, the pollution they cause, including things such as leaks, is kept to a minimum.

- GRC expressly requires that all customers stay on maintained trails and intense usage areas and use only the provided portable toilets. GRC provides temporary portable toilets at our Hunter Creek site. Together with the other members of the KHROA, we stagger our raft trip start times to keep group sizes (and thus their impacts) as small as possible in any given area at any given time.
- Rafts draw only a few inches of water and therefore rarely touch or affect the river bottom. Where rafts do touch bottom, such as at the shoreline, we attempt to use the smallest area possible.
- Guides watch for and point out wildlife and habitat features to customers as they raft by. Customers appreciate this as they take raft trips for the whole experience, which includes - and on some trips focuses completely upon - animals, birds and their habitats. Most guides even include geological aspects in their discussions, such as pointing out and explaining the silt and the color of the river water. Protecting these environmental values is important to us as daily operators in the river and riparian environment.

2.3.4 Cultural and Heritage Values

- The histories of the Kicking Horse Pass and the communities that once existed along the Kicking Horse River are common points of discussion on our tours. Landmarks are pointed out and explained by our knowledgeable guides.

2.3.5 Hazardous Material and Waste Disposal Handling

- We will have one or two temporary portable outhouse toilets as indicated on the site plan at our Hunter Creek site to deal with human waste. All garbage from lunch will be packed out with the trip each day, and all river gear is washed at our base in Golden, BC.

2.4 First Nations

- We have never had any issues with First Nations on the Kicking Horse river and would love to chat about any concerns they may have with our operation as we strive to have the lowest impact on the environment that we can. We are happy to discuss and resolve any issues that may arise with our proposed operations on the Blaeberry, Columbia, White and Kootenay Rivers.

3.0 Overlap with Existing Use

3.1 Mineral Tenure

- GRC has found no conflicting issues with any mineral claims on our current or proposed tenure. We will be happy to discuss any issues that may arise in the future.

3.2 Timber Tenure and Forest Use

- While travelling on active logging roads GRC vehicles tune their radios to the applicable frequencies and channels for each road.

4.0 Operations and Safety Plans

4.1 All Rivers in Operation Plan:

- Our office staff informs customers of river class, hazards and restrictions upon reservation. When customers arrive guides assess their comfort and skill levels, discuss any concerns customers have, and inform them of any new information or changes that affect the rivers or GRC's trips. Liability Waiver forms and their content are discussed in some detail with customers and they are given many opportunities to ask questions about the waivers before they complete and sign them. Furthermore, staff members require customers to state expressly that they understand what they are waiving before they are given pens to sign the waiver forms. Customers are not allowed on trips with GRC unless they have signed a liability waiver form.
- Bus drivers give a vehicle-specific safety talk - much like an airline - before the bus leaves GRC's office. Among other things, items such as the location of the vehicle first aid kit, vehicle fire extinguisher and emergency escape exists are shown to our customers and their operation is explained.
- At the water's edge, a GRC trip leader provides an in-depth safety briefing and equipment review prior to trip departure.
- At the beginning of each trip guides require that customers practice paddling techniques and show that their clearly understand their guide's instructions and can respond appropriately.
- A description of the trip or tour is given and any hazards are reviewed before the boats depart.
- Boats are organized by such things as experience, comfort level, ability and strength.
- All safety equipment including life jackets and helmets are checked continuously throughout the day.
- Guides review river safety on rafts and cover additional safety before major rapids.
- At strategic locations along the river GRC has placed things such as spine boards to better enable our guides to deal with potential serious customer injuries
- At every location raft guides know that they can radio in a helicopter if needed for an emergency evacuation. Our base will call the RCMP, who will dispatch Search and Rescue to our location on the river.

4.2 Kicking Horse River

Upper Kicking Horse River Section

- Put in at Beaverfoot Bridge - W116 39.238 N 51 14.23 to Hunter Creek W116 44.768 N 51 15.807 Approx 10 km.; One hour on the water.

River Characteristics

- Class 1 to 2 with a short section of class 3.
- Braided section for first 5 km, then single channel with class 2 sections.
- Class 3 section called Hopi's Hole.

Hazards

- Gravel Bars, Shallow Channels, Braided river with dead end channels
- Log jams
- Sweeper Hazard
- Require guides to constantly focus on route selection and be ready and able to make last minute route changes depending on such things as wood in the river. Some advance paddling is required for a large log jam at Palliser.
- Hopi's Hole, Class 3, requires avoiding a large rock call Penny's in the middle of the river before working to stay river middle or left to avoid a ledge drop call Hopi's hole, which at high water has the potential to flip a raft. Large waves are present at higher water levels.

Access and Evacuation Points

- Beaverfoot road on river left to Beaverfoot bridge.
- Railway on river right until just above Palliser, then on river left.
- Palliser Road access on river right.
- Hunter Creek access road and GRC lunch site on river right.

Hunter Creek to Portage-Shotgun Rapids

- 2.5 km to scout for rapids

Characteristics

- Class 2 to 3
- Log jams easily avoidable
- Small holes and corners
- Ensure take-out at Portage-Shotgun rapid scout.

Access and Evacuation Points

- Railway on river left
- Access roads to Beaverfoot FSR on river left

Portage Shotgun Rapids to Pebble Beach

- 7 km section with 1 km continuous class 4. Option is given to guests to walk around this section.

Characteristics

- Long Class 4 continuous rapid. Large waves, ledges and holes dispersed among many boulders. Potential for flips and long swims.

- Specific lines for clean runs. Rafts travel close together and pay attention to entire group.
- Watch for new debris caught in rocks.
- Large hole to avoid at the entrance to the rapids on river left (Terminator)
- Large hole river middle about 150m into the rapids (Bart's) Go slightly left
- Sharp rock river left beside Bart's. Thread the needle in between two obstacles
- Shotgun ledge 200m further on river right. Steep drop, avoid by going as far left as safely possible and square up.
- Table Saw wave is right after Shotgun in river middle at water levels above 81.5. Go left or right of it.
- Ledge drops 150m after Shotgun drop. Avoid by going river right after Shotgun.
- After the ledges river turns to Class 2-3.
- Rafts signal to each other OK. If not, pull over and check on everyone.
- Avoid house rock in river middle at high water.
- Stay in fast water and watch for the odd boulder and sharp sudden whole for rest of way to pebble beach.

Access and Evacuation Points

- Railway on river right for Portage-Shotgun
- Railway crosses to river right at Man Eater hole.
- Pebble Beach road and railway access on river right W 116 47.43 N 51 16.759
- Backboard, blankets, first aid materials located at Pebble Beach and below Shotgun Rapid.
- Helicopter landing zone at Pebble Beach and Portage-Shotgun Scout.

Pebble Beach W 116 47.43 N 51 16.759 to Glenogle N 51 17.268 W 116 99.405 Take out

- 6 km stretch of class 2-4 depending on water levels.

Characteristics

- Attention to submerged rocks and deep channels.
- Some big rocks river left called Witches Hat
- Roller coast rapid has several big waves in a row. At high water it is sometimes necessary to avoid going into the waves.
- Flip potential at high water.
- Twin Towers rapid in river middle is to be avoided at high water by going left or right. Flip potential.
- Stay river middle for rest of way to take out and watch for boulders.

Access and Evacuation

- Railway on river right.
- Highway on river left

Lower Canyon Put in N 51 17.235 W 116 51.804 to Blue Guy eddy N 51 18.048 W 116 53.535

- 4 km with 2.5km continuous class 4. Many specific lines and plenty of potential for flips and long swims.
- Guides pay close attention to all rafts and stay close together for added safety.
- An all-clear signal will be displayed at the end of the class 4 rapids.

Characteristics

- Class 4 stretch begins with Wavetrain, several large waves river middle and one big hole at the end on river left to avoid.
- Rafts stay river middle for Double Trouble, a small drop and waves, then avoiding some boulders and holes on river left
- Boulder garden follows, rafts stay river right to avoid getting hung up.
- Townhouse rock is crux of Lower Canyon. It is river middle and is to be avoided on either side at all times.
- Large pour over rocks on river left, rafts keep right.
- Frenchy's hole is river middle and is to be avoided on river left.
- Very strong diagonal wave and eddy line called Rip Tide on river left. Rafts are to hit on river right side with speed and squared up.
- Large boulders dispersed throughout.
- Large drop river left called Otter slide. Rafts stay river middle.
- Tight, pushy corner at the Nozzle. Rafts must work to stay river left and set up for last few large waves before the calm stretch to Blue Guy eddy.
- Rafts Pull over and signal to the Trip Leader and OK hand signal.
- Backboard, blankets, spine collars are cached in the trees at Blue Guy eddy.

Access and Evacuation

- Access to put-in and upper rapids through CPR access road.
- Helicopter landing areas at Townhouse rock and above Blue Guy Eddy.
- Railway on river right until it crosses river at Blue Guy Eddy.

Blue Guy Eddy to Golden Take out

- Class 2 with one class 3 wave
- 5 km

Characteristics

- Watch for large boulders dispersed in all areas of river.
- Power lines and railway debris on shore, stay in deeper water
- Play Wave, class 3 wave river middle under railway bridge. Very calm afterwards, flipping hazard is not very high. Some rafts will surf this wave.
- Class 1-2 for the rest of the float into Golden, BC.

Access and Evacuation

- Lower CPR access road to Railway bridge. Evacuation on river right or left.

- Railway on river right
- Helicopter landing zones near railway tracks
- Town and road access when out of canyon

Notes

- The Kicking Horse River is Glacier Fed and prone to rapid rise and decrease in volume. The River can change dramatically with different water levels. Extreme caution and scouting required at high water and flood levels. Lots of debris, logs, log jams, sweepers, large holes, large waves, flip hazard, long swims, cold water at high water. Guides must be aware of customer's condition and monitor river levels and weather daily.

Blaeberry River

- Class 1-2 river. Fun family rafting trip with approximately 2 hours on water.
- Put in at Blaeberry FSR Bridge. Take out at Blaeberry River Road.

Characteristics

- Braided river channels for first hour of trip in wide valley.
- Guides must pay attention and choose correct channels with the most flow.
- Log jam, sweepers, shallow areas.
- Last hour on river is in canyon.
- Deeper water, some small waves, few logs.
- Watch for boulders and small holes.

Access and Evacuation

- Blaeberry FSR at put-in
- Blaeberry Road on river left while in open valley
- Many helicopter landing zones in open valley, minimal in canyon area
- Upper Donald road and bridge half way through canyon.
- Some houses and properties along the river
- Trans Canada Highway and Blaeberry River Road at take-out.

Columbia River

- Class 1 river. 3 hour float time.
- Put in at Nicholson Bridge. Take out at Fisher Road in Golden, BC.

Characteristics

- Wide, deep, slow moving
- Current can sometime provide resistance and can be hazardous to swimmers.
- Dead head logs and anchored logs from paddle wheel boats.
- Strong winds can occur.

Access and Evacuation

- Canyon Creek Road at Nicholson Bridge at put-in.
- Many residential houses on river right.
- Helicopter landing zones.
- Fisher Road in Golden near and at Take out.

White/Kootenay Rivers

- Multi day raft trip with vehicle support. Further planning for this location is required and that planning will likely entail some customization for each trip.
- Day 1 runs the upper White river twice; has class 2-4 whitewater.
- Day 2 runs the lower White river with class 2-3 water and a short section of the Kootenay river with Class 2 waters.

Characteristics

- Low volume river. Only raftable in late spring and early summer: May-June.
- Many easy to read class 2 and 3 rapids.
- Wave trains, holes, small drops.
- Logs jams, sweepers.
- Class 4 rapid on tight corner. Only 150m long. Scout.
- Big holes in middle, avoid on river right, watch for bounce off river right rock wall. Customers will have option to walk around this section.
- More friendly class 2-3 until Whiteswan FSR Bridge.
- Repeat morning run and camp at recreation site at Whiteswan FSR Bridge.
- Day 2 is mainly class 2
- A few braided channels, boulders, small holes.
- Confluence with Kootenay on river right. Possible ending point, or continue downstream.
- Class 1-2 slightly deeper and wider river.
- Take out at Nine Mile FSR Bridge

Access and Evacuation

- White River FSR runs very close to the river on river right most of the way to the Whiteswan FSR Bridge. Very good for safety and spotting.
- Whiteswan FSR at camp site.
- Day 2 White River FSR is further away from the river. Possible to hike, helicopter rescue is most likely with satellite phone and radio.
- Logging FSR channels may be of some use in an emergency.
- Road access at the White/Kootenay Confluence.
- Kootenay River FSR runs along river all the way to the take-out at Nine Mile FSR Bridge.

First Aid and Rescue

- Every Raft and Vehicle has a first aid kit.
- Trips leaders 1 and 2 (lead and sweep) carry more extensive first aid kits and marine radios with truck and sometimes straight to base contact.
- All guides carry smaller FRS radios to communicate between rafts.
- Trip leader carry's oxygen.

- On remote trips driver will carry satellite phone with extra batteries.

In case of Emergency

- Guides to contact shuttle vehicle as soon as possible. Relay important information, location, and what support is needed. Shuttle driver relays information to base who will contact the RCMP and Search and Rescue if needed.
- Guides will decide on best way to evacuate if needed perform first aid on patient, and maintain crowd control.
- Full accident reports will be filled out after every incident. If situation permits, photo or video will be taken of the scene. All information gathering and recording will be completed at our office and will be kept on record. Guides also fill out a daily log.

GRC radio frequency
VHF Marine Channel 11

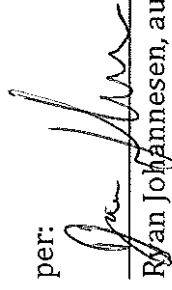


I certify that I have prepared a Hazards and Safety Plan which that meets or exceeds Workers Compensation Board and approved industry standards and that GRC operation will meet the requirements of this plan.

Dated: Jan 10, 2010

Glacier Raft Company Ltd.

per:



Ryan Johannesen, authorized signatory

Jan 10 2011 Date

Resource List

Glacier Raft Company (250 344-6521)
RCMP Golden (250 344-2221)
Search and Rescue (RCMP will initiate)
Canadian Helicopters (250 344-5311)

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Glacier Raft Company (250 344-6521)
RCMP Golden (250 344-2221)
Search and Rescue (RCMP will initiate)
Canadian Helicopters (250 344-5311)
Alpine Helicopters (250 344-6226)
Golden Hospital (250 344-5271)
Rafting Companies
 Alpine (250 344-6778)
 Wet n' Wild (250 344-6546)
 CRR (403 688-6535)
 Wildwater (403 522-2211)
 Kootenay (250 347-9210)
Harry Mitchel, R.P.F.
Regional Manager – ILMB Columbia office (250 426 1718)