Executive Summary

Triton Environmental Consultants Ltd. was retained by Repap Smithers Inc. in partnership with the Ministry of Environment, Lands and Parks (MOELP) in Smithers to conduct reconnaissance level fish and fish habitat inventories in the Kispiox Forest District. The information obtained from existing information was limited to several mainstem records, the majority of the study area is lacking known fish distribution data. The records indicate that Dolly Varden and rainbow trout are scattered throughout the study area. Coho and chinook salmon are found in lower Shedin Creek and coho are recorded in Kuldo Creek. The analysis of the maps for the study areas indicates the general morphology of the watershed, which is defined by steep valley walls, icefields and mountainous regions. A total of 118 sites were sampled between September 10 and 18, 1996. It was originally thought that the majority of tributaries to the Skeena would be too steep to support fish populations but rainbow trout and/or Dolly Varden were captured at 7 sites that had gradients greater than 20%.

Acknowledgements

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1.0 INTRODUCTION

1.1 Background

Repap Smithers Inc. (Repap) retained Triton Environmental Ltd. (Triton) to conduct reconnaissance level fish and fish habitat inventory in the Skeena mainstem tributaries (between Sicintine R. and Kuldo Cr., and between Deep Canoe Cr. and Babine R.), Tommy Jack, Upper Shedin, Kuldo, Deep Canoe, Sam Green and Lower Shedin watershed areas within the Kispiox Forest District.

1.2 Objectives

In partnership with MELP and Repap Smithers, Forest Renewal BC (FRBC) is implementing fish and fish habitat inventories to provide information required for resource planning. Triton's goal was to describe fish distributions and habitat characteristics, and provide stream classifications according to the Forest Practices Code. Fish and fish habitat operational inventories consist of:

- reconnaissance-level species and habitat surveys to determine values and sensitivities in areas subject to or affected by forest harvesting;
- identification of fish and fish habitat values that require special designation under the Forest Practices Code (e.g. sensitive areas); and
- new, reinterpreted, or augmented data to meet Forest Practices Code requirements for classification of areas (e.g. fish stream classification).

Stream classification is now required under the Forest Practices Code (FPC) of British Columbia Act (Bill 40 - 1994) and the associated Operational Planning Regulation enacted in June 1995. One of the objectives of the FPC is to integrate fisheries and forestry resource management in areas proposed or approved for logging to ensure that fish habitat is protected. Stream classification is designed to identify the presence of sensitive fish habitat and species, and to assist in the determination of the appropriate riparian management areas in order to develop a responsible management strategy required for Operational Plans.

2.0 STUDY AREA

2.1 Location and General Morphology

The Kispiox Forest District is located in north-central British Columbia and contains several major tributaries to the Skeena River including the Sicintine, Babine, Suskwa, Kispiox, Kitwanga and Kitseguecla rivers. The 1:20,000 TRIM maps that cover the study area are 93M071, 93M072, 93M073, 93M081, 93M091, 93M092, 94D001, 94D002, and 104A010. Due to the late date of the request for proposal, the watershed coverage focused on sections that are included in Repap's Five Year Development Plans.

The watersheds surveyed are located within the Interior Cedar Hemlock biogeoclimatic zone (Ketcheson et al. 1991). This low to middle elevation zone is the most productive in the interior and has cool/wet winters and warm/dry summers. Western hemlock, western red cedar, white-Engelmann spruce hybrids and subalpine fir are the dominant trees. At higher elevations, the biogeoclimatic zone is Engelmann Spruce-Subalpine Fir (Ketcheson et al. 1991). The landscape at higher elevations is open parkland with trees interspersed with meadow, heath, and grassland. Englemann spruce, subalpine fir and lodgepole pine are the dominant trees.

The streams studied include Skeena mainstem tributaries (between Sicintine R. and Kuldo Cr., and between Deep Canoe Cr. and Babine R.) and partial or complete coverage of the Tommy Jack, Upper Shedin, Kuldo, Deep Canoe, Sam Green and Lower Shedin drainages (**Figure 1**). Specifically, the following streams were inventoried:

2.1.1 Tommy Jack Creek

The headwaters of Tommy Jack Creek lie on the slopes of Mount Tommy Jack and it flows north and northeast into the Sicintine River. The watershed ranges in elevation from 840 m to 1400 m. Based on a 1:50,000 NTS map, Tommy Jack Creek has a mainstem length of 19 km long stream with 6 tributary streams. The total length of the tributaries studied is 25 km for an total length classified of 43 km (compared to a proposed 23 km to be inventoried).

2.1.2 Upper Shedin Creek and Lower Shedin Creek

The headwaters of Shedin Creek flow south into Babine River near its junction with Skeena River. The watershed ranges in elevation from 330 m to 1320 m. Based on a 1:50,000 NTS map, Shedin Creek is a 45 km long stream with 32 tributary streams. The total length of the tributaries is 215 km for a total inventoried length of 260 km (compared to a proposed 66 km to be inventoried).

2.1.3 Kuldo Creek

Kuldo Creek flows south-east into Skeena River, south of Kuldo. The watershed ranges in elevation from 366 m to 460 m and has a mainstem length of 10.5 km measured to the edge of NTS map 93M13. Twelve tributaries were inventoried with a length of 51 km for a total inventoried length of 62 km (compared to a proposed 24 km to be inventoried).

2.1.4 Deep Canoe Creek

Deep Canoe Creek flows east into the Skeena River. Deep Canoe was not sampled due to the increased sampling effort in other watersheds.

2.1.5 Sam Green Creek

Sam Green Creek flows into the Babine River just upstream of its confluence with the Skeena River. The elevation of the watershed ranges from 320 to 1555 m and it has a mainstem length of 17.5 km. The watershed had 32 tributaries with a total length of 58 km. The inventoried length of 75 km is significantly greater than the proposed 9 km.

2.2 Access

Portions of the Kuldo Creek and Deep Canoe Creek watersheds are partially accessible by road. Access is from Highway 16 traveling to Hazelton then north from Kispiox on the Kuldo Creek Forest Service road. This allows access by truck to several sites. The majority of the sites were accessed via helicopter and foot; in many instances the access was quite difficult due to the steep terrain.

2.3 Resource Use

The dominant resource activity in the watersheds studied will be the proposed logging. No farming or ranching activities were observed. This area is difficult to access and is probably used only for recreational purposes such as hunting, fishing and camping.

2.4 Summary of Existing Information and Sources Consulted

The first task in stream classification was to collect existing information on fish distribution within the watersheds under investigation. Data from the provincial and federal government sources such as the Stream Information Summary System (SISS) and the evolving Fisheries Information Summary System (FISS) were researched for information. However, for the most part the streams that were investigated were 1st, 2nd, and 3rd order streams mapped at 1:20,000 scale which are not reported in the government databases.

In the 1970's, B.C. Hydro proposed to build the Cutoff Mountain Dam on the Skeena River immediately upstream of the confluence with the Babine River. A pre-feasibility study exists but any data collected would be included on the FISS maps.

The extent of existing information is minimal and summarized by watershed.

2.4.1 Tommy Jack Creek

Tommy Jack Creek flows northeast into the left bank of the Sicintine Creek. Dolly Varden were observed at approximately 3 km from the creek mouth.

2.4.2 Upper Shedin Creek and Lower Shedin Creek

Shedin Creek flows south into the Babine River, near its junction with Skeena River. Existing SISS information notes that coho salmon are present. Chinook salmon, Dolly Varden, Rocky Mtn. whitefish, and rainbow trout have been observed at 0.2 km. The SISS records show an 8 m falls that is impassable to all species located 3.5 km upstream. There is also a 20 m fall recorded at 12.0 km upstream. The stream summary catalogue for Subdistrict 4C has a distribution summary that notes rainbow trout at 15 and 26 km on the mainstem and rainbow trout in Damsumlo Lake.

2.4.3 Kuldo Creek

Kuldo Creek flows south-east into Skeena River, south of Kuldo. Cascades are located at 34.0 km, and a 15.0 m rock falls at 41.0 km which is the first of two major barriers which is impassable. The other major barrier is not detailed in the records. Coho salmon were observed at 15 km and Dolly Varden have been observed throughout the system.

2.4.4 Deep Canoe Creek

Deep Canoe Creek flows east into the Skeena River. No specific data was located for Deep Canoe Creek.

2.4.5 Sam Green Creek

Sam Green Creek flows into the Babine River just upstream of its confluence with the Skeena River. No specific information was found for Sam Green Creek except that Dolly Varden and rainbow trout were suspected species according to a record attached to the mouth of the creek.

3.0 METHODS

3.1 Physical

Prior to the start of the field program 1:20,000 TRIM maps were used to estimate the location of reach breaks, determine the length of the reaches and identify potential sampling sites. The locations of these reach breaks were subsequently confirmed or modified during the field studies.

The survey was conducted by a four person field crew working in two teams. Sites at the top of the watershed were done first to determine fish presence whenever possible. DFO/MELP Stream Inventory Survey forms were filled out for each site (Department of Fisheries and Oceans and Ministry of Environment, 1989). Channel widths were measured with a measuring tape and depths were measured with a meter stick. Strea classifications, whether fish bearing or non fish bearing, require the measurement of a minimum of six channel widths. Stream gradients were measured using a Suunto clinometer. In order to allow for future verification of sampling sites, all sampling sites were permanently marked with unique flagging tape (blue and white striped) and the GPS locations of all sites were noted.

Photos were taken at each site to document field data and conditions. Canon Sure Shot A1 Prima AS-1 cameras were used for this purpose. The camera is an automatic, 32 mm lens requiring 35 mm, 200 ISO film. Photos were usually taken of both the upstream and downstream view of the stream and any characteristic features such as beaver dams. Photos were often taken of fish captured at the site. **Appendix 1** documents these photos.

The report maps were generated using 1:20,000 scale TRIM base maps provided by MELP. Using ARC Info, these files were projected into UTM and coverages were created from the field sampling and stream classification data.

3.2 Biological

Triton obtained fish sampling permits from the appropriate DFO and MOELP offices which are included in **Appendix 2**. Fish presence/absence was determined by electrofishing and/or minnow trapping. Electrofishing was conducted at all sites where it was deemed necessary. That is, where fish presence had not been determined upstream or habitat characteristics were sufficiently different from other sites. A minimum area of approximately 100 m² was sampled where fish were present. The effort, or shocking time and distance shocked, was recorded for each sample site. Electrofishing was done by one person operating the shocking device and the second person collecting stunned fish with a dip net and placing them in a bucket. The fork length of each fish collected was then measured and, whenever necessary, voucher specimens were collected and stored in a

10% formaldehyde solution in plastic bags. These specimens were delivered to the Smithers office of the BC Environment.

3.3 Stream Flow and Water Quality

The hydrological records were reviewed from existing sources, namely Water Survey of Canada (WSC) records. An estimate of daily flows (m³/s) was based on Water Survey of Canada Daily maximums, minimums, and maximum instantaneous flows were also summarized from existing records if available. Mean annual discharge (m³/s) was calculated from existing hydrological records.

As agreed with the Ministry Representative, water samples were not collected for chemical analyses. The parameters that were measured for each site, however, were turbidity, pH and conductivity. Conductivity was measured with a handheld LaMotte TDSTestr 3TM conductivity meter with a range of 0 to 1990 μS. The acceptable values of conductivity for electroshocking purposes must exceed 30 μS. The pH at each site was measured with a handheld LaMotte pHTestr 2TM pH meter. Turbidity was determined subjectively, although it was stipulated by the ministry representative during the quality assurance phase of the project that the depth of the deepest pool would be the default value in the database when the water was clear to the bottom.

3.4 Reporting

Using 1:20,000 scale TRIM maps meant that some of the first order (headwater) streams marked on the map were not necessarily stream channels. Under the FPC's *Operational Planning Regulation* (June 1995) a stream is defined as:

"... a watercourse, having an alluvial sediment bed, formed when water flows on a perennial or intermittent basis between continuous definable banks;"

During the field classification, crews would define a watercourse as "not a creek" if there were no alluvial sediments and no continuous, definable banks. Watercourses that had a substrate that consisted entirely of organic material were not considered to have an alluvial sediment bed.

The data collected from existing sources and during the field program were used to determine the riparian class as defined under the *Forest Practices Code*. **Table 1** provides the FPC definition of each riparian class:

Draft procedures are also outlined in the guidebook to determine the riparian management areas (RMA) for lakes (L1 - L4), wetlands (W1 - W5) and fisheries sensitive zones.

The summary table for all sites within the study area includes:

- the results of fish sampling;
- the average channel width (m);
- the average gradient (%); and
- the riparian class according to the FPC. .

A stream survey card and photograph(s) are presented for each sampling site following the order in which they are listed in the summary table. The stream survey data, for each site, is an electronic duplication of the stream survey forms completed in the field and provides additional information used by the field crew to designate a stream as non-fish bearing.

An S5 or S6 classification was based on electrofishing results, substrate composition, stream gradient, general fish habitat characteristics and location of barriers that may preclude fish use in the area. The absence of fish during sampling did not rule out an S1 to S4 designation. At sites where no fish were collected but there was no reason to conclude that fish would not use the segment of creek, the reach was classified as fish bearing and given the appropriate S1 to S4 classification. Additional sampling, at different times of the year, would be required to confirm that fish do not utilize a stream reach before an S5 or S6 final designation would be accepted. The rationale for S5 and S6 designations was summarized in coordination with recommended sites for further sampling.

4.0 RESULTS - PHYSICAL CHARACTERISTICS

4.1 Stream Flow

There was no recorded information available for any watersheds in the study area except for the mainstem Skeena River. Water Survey of Canada stations were located on the Skeena River above the Babine River confluence for the period between 1979 to 1994 (08EB005) and on the Skeena River at Glen Vowell between 1960 to 1985 (08EB003). The station at the Skeena River above Babine River encompasses a drainage of 12,400 km² while the station for the Skeena River at Glen Vowell measures the flow from a drainage area of 25,900 km².

Figure 2 compares average daily average flow for the period of record, 1970 to 1994 at the Water Survey of Canada station located on the Skeena River above the Babine River (WSC Station 08EB005). In the month of September at the time of sampling, the typical average flow is approximately 500 m³/s on the Skeena at this location.

Figure 3 compares average daily average flow for the period of record, 1960 to 1985 at the Water Survey of Canada station located on the Skeena River at Glen Vowell (WSC Station 08EB003). In the month of September at the time of sampling, the typical average flow is approximately 1000 m³/s on the Skeena at this location.

The discharge of the following main creeks were measured using the floating chip method and appear to be fairly comparable at sites where more than one reach was sampled.

Kuldo Creek

(Reach 3, Site B14): flow estimate of 12.5 m³/s at an estimated medium discharge level.

Sam Green Creek

(Reach 1, Site B45): flow estimate of 1.8 m³/s at an estimated medium discharge level (Reach 6, Site B44): flow estimate of 0.4 m³/s at an estimated medium discharge level

Sheladamus Creek

(Reach 2, Site A49): flow estimate of 1.3 m³/s at an estimated medium discharge level

Tommy Jack Creek

(Reach 3, Site B38): flow estimate of 0.03 m³/s at an estimated high discharge level

Willowflat Creek

(Reach 1, Site B65): flow estimate of 1.2 m³/s at an estimated medium discharge level. (Reach 2, Site B64): flow estimate of 1.3 m³/s at an estimated medium discharge level.

4.2 Water Quality

Water temperatures during this period ranged between 4 and 13°C. **Table 2** summarizes the temperature, pH, conductivity and turbidity measures collected during the course of this inventory project. The average water temperature was 8°C. pH values ranged from 6.6 to 9.3, with an average pH of 8.0. The turbidity values are not discussed here as the values were defaulted on request of the QA/QC monitor to the depth of the deepest pool when turbidity was recorded as clear to the bottom. This value is not considered indicative of the stream turbidity by Triton and will not be discussed further. The conductivity ranged from 10 to 270 (umhos/cm) with an average value of 80. The low values are considered questionable given the successful application of electrofishing to most sites and are considered to be a result of equipment error.

5.0 RESULTS AND DISCUSSION

The survey took place between September 10 and 18, 1996. The weather at the time of survey was variable with general overcast/rainy conditions with morning fog. The air temperatures ranged from 7 to 17°C. A total of 118 sites were sampled and only 3 sites were classified as "Not a creek" due to a lack of defined channel. The stage at the time of sampling was Medium-High which allowed for fish sampling at the majority of sites. An item of note was the difficult access into many sites. This resulted in a larger than normal percentage of sites that were surveyed from the air as denoted by AE (aerial estimate) in the methodologies section.

The summary information for all sites is listed in **Table 3**. The table is organized by watershed whenever possible. The stream summaries and accompanying photos are in the same order as the summary table. Photocopies of the original field cards are included in **Appendix 3**. **Figure 4** includes histograms of the fish species sampled during the study. Only species which had frequencies greater than 10 were included as a histogram with only two fish sampled is not informative. The fish collection data including site location and water temperature is summarized in **Appendix 4**.

5.1 Tommy Jack Creek (94D002)

5.1.1 Physical

Only the upper portion of Tommy Jack Creek was included within the scope of this survey. Twelve sites were sampled including the mainstem which has a gradient of 5%. Several falls and cascades were observed in the mainstem.

5.1.2 Fish

Fish sampling was conducted by electrofishing at most of the sites which resulted in the capture of fish at five sites. Dolly Varden were captured at A23, A24, and A25. Both Dolly Varden and rainbow trout were captured at A26 and A27. There is an unnamed lake upstream of B40 which has a low probability of resident fish but should be checked.

5.1.3 Stream Classification

The mainstem of Tommy Jack Creek is classified as S2 based on an average channel width of 10.2 m at Site B40. No fish were captured in the mainstem but Dolly Varden and rainbow trout were captured in the tributaries.

5.1.4 Tributaries

The majority of tributaries sampled were S3. Dolly Varden were captured in 22% gradient at Site A24 which is an S4. A tributary at Site A30 is not shown on the TRIM

map and is classified as S4. Site B39 is a headwater tributary that has a 10m falls downstream and was considered to lack overwintering habitat. Site B38 is located in a reach above a 4m cascade and is classified as S5 due to the presence of an impassable barrier and lack of overwintering habitat.

5.2 Upper Shedin Creek (93M092, 94D002)

It is noted that there is a gap in data collection between Upper and Lower Shedin Creek due to the limited scope of the inventory. Any future surveys should include 93M082/93

5.2.1 Physical

Upper Shedin Creek was sampled as well as Damsumlo Lake and its tributaries. Twenty-three sites were sampled including the mainstem of Upper Shedin Creek. There is a 15 m falls downstream of all the sites sampled in the Upper Shedin as well as a 25 m falls near the headwaters. The watershed has several small lakes upstream of the 25 m falls that are above the treeline which are classified as non-fish bearing. The mainstem of Shedin Creek appears to have a high debris transport potential which is indicated by the large log jam observed at B20 in a side channel.

5.2.2 Fish

Despite fairly intensive sampling at twenty three sites and minnow traps in Damsumlo Lake, no fish were captured in this area. Damsumlo Lake has historical records of rainbow trout according to the SISS map although no fish were captured or visually observed. There were also historical records of rainbow trout at 15 and 26 km in Shedin Creek. It is recommended that the area be selectively re-sampled as it may be possible that the entire watershed above the 15 m falls is non-fish bearing. It is noted that there is a gap in the fish distribution data as the study did not include the entire Shedin watershed.

5.2.3 Stream Classification

The mainstem of Upper Shedin Creek is classified as S1 due to the historical records of rainbow trout within the study area. The mainstem of Upper Shedin Creek is considered to be non fish-bearing upstream of the 25 m falls due to the lack of overwintering habitat.

5.2.4 Tributaries

5.3 Lower Shedin Creek

Shedin Creek flows south into the Babine River, near its junction with Skeena River. Existing SISS information notes that coho salmon are present. Chinook salmon, Dolly Varden, Rocky Mtn. whitefish, and rainbow trout have been observed at 0.2 km. The

SISS records show an 8 m falls that is impassable to all species located 3.5 km upstream. There is also a 20 m fall recorded at 12.0 km upstream. The stream summary catalogue for Subdistrict 4C has a distribution summary that notes rainbow trout at 15 and 26 km on the mainstem and rainbow trout in Damsumlo Lake.

- 5.3.1 Physical
- 5.3.2 Fish
- 5.3.3 Stream Classification
- 5.3.4 Tributaries

5.4 Kuldo Creek

Kuldo Creek flows south-east into Skeena River, south of Kuldo. Cascades are located at 34.0 km, and a 15.0 m rock falls at 41.0 km which is the first of two major barriers which is impassable. The other major barrier is not detailed in the records. Coho salmon were observed at 15 km and Dolly Varden have been observed throughout the system.

- 5.4.1 Physical
- 5.4.2 Fish
- 5.4.3 Stream Classification
- 5.4.4 Tributaries

5.5 Deep Canoe Creek

Deep Canoe Creek flows east into the Skeena River. No specific data was located for Deep Canoe Creek.

5.6 Sam Green Creek

Sam Green Creek flows into the Babine River just upstream of its confluence with the Skeena River. No specific information was found for Sam Green Creek except that Dolly Varden and rainbow trout were suspected species according to a record attached to the mouth of the creek.

- 5.6.1 Physical
- 5.6.2 Fish
- 5.6.3 Stream Classification
- 5.6.4 Tributaries

5.7 Tributaries to Skeena River

- 5.7.1 Physical
- 5.7.2 Fish
- 5.7.3 Stream Classification
- 5.7.4 Tributaries

5.8 Wildlife Observations

Wildlife species observed included a frog near Damsumlo Lake. Tracks were observed at several sites including moose, white-tailed deer, black bear. The region near Damsumlo Creek was observed to contain sections of excellent moose habitat.

Mountain goat were observed in a tributary to Shedin Creek at sites

Wildlife that inhabit this region are adapted to either survive or avoid the deep snows of winter. Grizzly and black bears are the most common large mammals with bears being well adapted to survive the long winters by hibernating (Ketcheson et al. 1991).

6.0 CONCLUSION AND RECOMMENDATIONS

Rainbow trout were found to be present throughout Bambrick Creek and many of its tributaries. Farming and cattle activity seem to have effected the stream and its bank integrity in many spots, particularly in the lower three reaches, but probably has not caused any overall degradation to fish habitat. Mitigating this concern would require the construction of cattle fences and crossings throughout a large area.

Beaver activity is also extensive in the watershed. Dams create temporary barriers to fish migration but can also create large pools used as refuge by fish and can add to the LOD used as cover.

Fish densities in the Bambrick watershed ranged between 0.01 and 1.86 fish/m² (Table 2). The highest density involved juvenile rainbow trout and was related to good, complex habitat for juvenile fish including cut banks, LOD and boulders dispersed throughout the channel.

Table 3 provides a summary of the tributaries surveyed. All first order tributaries were dry and as a consequence were not sampled. Two out of seven second order tributaries or 29% were dry in mid-September. Due to the relatively flat topography of the Bambrick watershed there are usually no significant barriers (except beaver dams) restricting fish movement. Therefore, fish would be able to move into the dry creek channels during spring run-off. The degree of fish utilization of first order tributaries should be assessed in May or June when water levels would allow fish access to these tributaries.

We recommend that further sampling for fish be conducted at several sites in the watershed to confirm fish use. Sites 1, 11, 12, 17 and 18 should be resampled during appropriate periods of flow or fish life history, e.g. spawning. Willan Creek is a major tributary to Bambrick Creek and fish presence was not determined in a large section of the system. Approximately 1000 m of Willan Creek above Willan Lake were electroshocked and no fish were found. Large sections were dry and many areas of the riparian zone appeared impacted by cattle activity. Table 4 summarizes the sampling done on all these sites and suggests appropriate resampling times.

6.0 CONCLUSION AND RECOMMENDATIONS

The Riparian Management Areas (RMA) around streams, lakes and wetlands consist of a riparian management zone, the width which is determined by the presence of fish species and channel width. The retention of streamside vegetation is required to protect water quality, stabilize stream banks, regulate water temperature, and supply woody debris to the stream channel. The RMA can consist of both a management zone and of a reserve zone. Timber harvesting is not permitted within the reserve zone of the RMA and there are recommended management practices for the management zone.

Table 3 summarizes the specified Riparian Management Area (RMA) which is adjacent to the stream. The RMA extends from the top of the stream bank to the slope distance specified in the table.

The recommended management practices for these classifications are as follows:

S1, S2 and S3 Streams (fish-bearing)

The RMA adjacent to these creeks contain a reserve zone and management zone whose objective is to reduce the risk of windthrow to the reserve zone and provide opportunities for meeting wildlife tree objectives.

S4 Streams (fish-bearing)

S4 streams have a management zone of 30 m and do not have a reserve zone, with the exception of a 10 m reserve zone required in the interior where the risk of windthrow is considered low. The management objectives are to reduce the risk of windthrow to the reserve zone and retain all high valued wildlife trees contained in the reserve zone.

S5 and S6 Streams (non fish-bearing)

S5 and S6 streams do not have a reserve zone. The management zone should maintain wildlife habitat, provide a source of large woody debris and root networks for bank stability, and shading for stream temperature control.

Gullies or "Not a creek"

It is also noted that several waterways shown on the maps were classified as "not a creek" as they did not meet the definition of a stream. A stream is a watercourse formed when water flows between continuous definable banks. These drainages are usually gullies and will need to be included in the gully assessment procedure.

Gullies are defined in the Forest Practices Code by channel dimensions. A gully channel has:

- greater than 25% overall stream gradient from the fan apex to the top of the headwall; and,
- from the fan apex to the top of the headwall, at least one stream reach greater than 100 m long, with
 - ≥ 40 % sidewall slope
 - ≥ 20 % channel gradient
 - \geq 3 m gully height.

A stream channel must have both of these attributes to be defined as a gully. The majority of field observations were of transport zones which is often a confined, V-notch ravine. The sediment transported from gullies can have detrimental effects on fish habitat in downstream channels. Gully management goals should maintain channel stability and the natural rates of erosion and transport of sediment and debris.

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- Province of British Columbia. 1995d. Resource Inventory Committee (RIC): BC Standards, Specifications and Guidelines for Resource Surveys Using Global Positioning Systems (GPS) Technology.
- Province of British Columbia. 1993. Resource Inventory Committee (RIC): Field Key to the Freshwater Fishes of British Columbia.

Table 1 Summary of the Forest Practices Code riparian classifications for streams.

Riparian Class	Fish Presence	Stream Width
S1	fish present and/or stream gradient <20%	>20 m
S2	fish present and/or stream gradient <20%	5 - 20 m
S3	fish present and/or stream gradient <20%	1.5 - 5 m
S4	fish present and/or stream gradient <20%	<1.5 m
S5	fish not present and/or stream gradient >20%	>3 m
S6	fish not present and/or stream gradient >20%	<3 m

Table 2. Water Quality Data for the Kispiox Fish Habitat Inventory (values in italics are questionable).

Watershed Code	Stream Name "Local"	Site Number	pН	Temperature (°C)	Turbidity (cm)	Conductivity (umhos/cm)
4006362556000000000000	Trib. to Tommy Jack Cr.	A23	8.1	6.0	48	90
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	A24	8.3	7.0	27	140
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	A25	8.2	8.0	26	120
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	A26	8.2	7.0	22	140
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	A27	7.7	6.0	37	90
	Trib. to Tommy Jack Cr.	A28	8.0	6.0	15	110
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	A30	8.0	6.0	14	100
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	B40	8.0	7.0	60	100
40063625560000000000000000000000000000000	Trib. to Tommy Jack Cr.	B39	7.6	7.0	120	
40063625560000000000000000000000000000000	Tommy Jack Cr.	B38	8.3	7.0	36	
4800278000000000000000000000000000000000	Trib. to Shedin Cr.	B21	7.7	9.0	17	20
4800278000000000000000000000000000000000	Shedin Cr.	B20	8.2	9.0	40	40
4800278000000000000000000000000000000000	Trib. to Shedin Cr.	B28	7.6	9.0	34	30
4800278000000000000000000000000000000000	Trib. to Shedin Cr.	B27	7.6	8.0	22	30
4800278000000000000000000000000000000000	Trib. to Shedin Cr.	B27	8.4	8.5	42	60
4800278000000000000000000000000000000000	Trib. to Shedin Cr.	B32	0.4	9.0	60	00
			(((0
480027865700000000000	Trib. to Damsumlo L.	B24 B25	6.6	13.0 10.0	100	60
480027865700000000000	Trib. to Damsumlo L.		6.9		35	20
480027800000000000000	Trib. to Shedin Cr. Trib. to Damsumlo L.	B26	7.1	9.0	35	20
480027865700000000000		B29	8.1	8.5	60	60
4800278000000000000000	Trib. to Shedin Cr.	B30	8.3	8.5	38	80
480027865700000000000	Trib. to Damsumlo L.	A22	6.9	9.0	53	10
480027865700000000000	Trib. to Damsumlo L.	A20	7.6	9.0	63	40
4800278657000000000000	Trib. to Damsumlo L.	A21	7.6	9.0	82	40
4800278657000000000000	Trib. to Damsumlo L.	A18	7.8	9.0	64	50
4800278657000000000000	Trib. to Damsumlo L.	A19	8.0	9.0	29	20
4800278000000000000000	Trib. to Shedin Cr.	B31	8.0	8.5	70	40
4800278000000000000000	Trib. to Shedin Cr.	B22	8.2	9.0	50	40
4800278000000000000000	Trib. to Shedin Cr.	B34	8.0	9.0	100	30
4800278000000000000000	Shedin Cr.	B33	8.2	9.0	80	50
4800278000000000000000	Trib. to Shedin Cr.	B35	8.2	7.0	26	40
4800278000000000000000	Shedin Cr.	B36	8.2	6.5	100	40
	Trib. to Shedin Cr.	B37	8.3	9.0	70	40
4800278000000000000000	Trib. to Shedin Cr.	B56			40	
4800278000000000000000	Trib. to Shedin Cr.	B55			40	
4800278000000000000000	Trib. to Shedin Cr.	B52	7.1	9.0	80	
4800278000000000000000	Trib. to Shedin Cr.	A32	8.0	6.0	40	70
4800278000000000000000	Trib. to Shedin Cr.	B54			40	
4800278000000000000000	Trib. to Shedin Cr.	B53			80	
4800278000000000000000	Trib. to Shedin Cr.	A40				
4800278000000000000000	Trib. to Shedin Cr.	B50	7.1	9.0	24	
4800278000000000000000	Trib. to Shedin Cr.	B51				
4800278000000000000000	Trib. to Shedin Cr.	A38	8.0	6.0	50	100
4800278000000000000000	Trib. to Shedin Cr.	B49	8.7	7.0	50	
	Trib. to Shedin Cr.	A39	8.0	8.0	24	70
	Kuldo Cr.	B14	8.6	11.0	100	80
4005903000000000000000	Trib. to Kuldo Cr.	B13	8.6	9.5	70	90
48001290000000000000000	Sam Green Cr.	B45	8.4	7.0	100	
4800129000000000000000	Trib. to Sam Green Cr.	B43	8.1	7.0	80	
48001290000000000000000	Trib. to Sam Green Cr.	B42	8.0	6.5	70	
48001290000000000000000000000000000000000	Trib. to Sam Green Cr.	B41	8.0	6.5	60	
48001290000000000000000000000000000000000	Sam Green Cr.	B44	8.3	6.0	60	
400636600000000000000000000000000000000	Sheladamus Cr.	A50	8.2	9.0	55	60
400636600000000000000000000000000000000	Trib. to Sheladamus Cr.	A47	7.4	8.0	12	10
400636600000000000000000000000000000000	Sheladamus Cr.	A49	8.1	7.0	34	60
400636600000000000000000000000000000000	Trib. to Sheladamus Cr.	A49 A48	7.8	7.0	28	40
400636600000000000000000000000000000000	Sheladamus Cr.	B67	7.1	7.0	40	70
400636000000000000000000000000000000000	Guish Cr.	B60	7.1	7.0	40	
400636000000000000000000000000000000000		_		7.0	40	
400000000000000000000000000000000000000	Guish Cr.	B61	7.1	7.0	40	

Table 2. Water Quality Data for the Kispiox Fish Habitat Inventory (values in italics are questionable).

		Site		Temperature		Conductivity
Watershed Code	Stream Name "Local"	Number	pН	(°C)	Turbidity (cm)	(umhos/cm)
4006294000000000000000	Willowflat Cr.	B65	7.1	9.0	80	60
4006294000000000000000000000000000000000	Willowflat Cr.	B64	7.1	9.0	60	00
400000000000000000000000000000000000000	Trib. to Skeena R.	B46	8.7	9.0	40	
4800278000000000000000000000000000000000	Trib to Shedin Cr.	B48	0.7	9.0	30	
			0.4	0.0		270
400000000000000000000000000000000000000	Trib. to Skeena R.	A41	8.4	8.0	23	270
400000000000000000000000000000000000000	Trib. to Skeena R.	B58	8.9	8.0	29	
400000000000000000000000000000000000000	Trib. to Skeena R.	B59	8.4	8.5	47	1.40
400000000000000000000000000000000000000	Trib. to Skeena R.	A45	8.2	8.0	26	140
4000000000000000000000	Trib. to Skeena R.	A44	8.3	7.0	20	220
4000000000000000000000	Trib. to Skeena R.	A43	7.4	4.0	60	250
4000000000000000000000	Trib. to Skeena R.	A42	7.2	5.0	34	70
4000000000000000000000	Trib. to Skeena R.	A46	8.1	8.0	21	140
4000000000000000000000	Trib. to Skeena R.	B15	8.4	9.0	20	160
4000000000000000000000	Trib. to Skeena R.	B16	9.3	7.0	18	220
4000000000000000000000	Trib. to Skeena R.	B19	8.6	9.0	10	210
40000000000000000000000	Trib. to Skeena R.	B18	8.3	10.0	15	50
4000000000000000000000	Trib. to Skeena R.	B17	7.9	10.0	16	50
40000000000000000000000	Swift Cr.	A17	8.1	9.0	53	100
40000000000000000000000	Trib. to Skeena R.	A15	8.2	7.0	16	190
400000000000000000000000000000000000000	Trib. to Skeena R.	A14	8.0	9.0	34	150
4000000000000000000000	Trib. to Skeena R.	A12	8.2	9.0	26	120
4000000000000000000000	Trib. to Skeena R.	A11	8.2	12.0	22	70
4000000000000000000000	Trib. to Skeena R.	B12	8.4	9.0	30	80
4000000000000000000000	Nancy Cr.	B11	8.3	9.0	60	80
4000000000000000000000	Nancy Cr.	B10	8.5	10.0	52	70
4000000000000000000000	Trib. to Skeena R.	B2		8.0	82	
40000000000000000000000	Trib. to Skeena R.	B4		9.5	74	
40000000000000000000000	Trib. to Skeena R.	В3		9.0	20	
4000000000000000000000	Trib. to Skeena R.	B1		8.0	66	
40000000000000000000000	Trib. to Skeena R.	A9	8.3	8.0	150	40
40000000000000000000000	Trib. to Skeena R.	A3		8.0	20	
40000000000000000000000	Trib. to Skeena R.	A2		9.0	26	
4000000000000000000000	Trib. to Skeena	A1		8.0	48	
4000000000000000000000	Trib. to Skeena R.	A4		8.0	18	
4000000000000000000000	Trib. to Skeena R.	A5		9.0	26	
4000000000000000000000	Trib. to Skeena R.	A6	8.2	9.0	37	40
400000000000000000000000000000000000000	Trib to Skeena R.	A8	7.7	9.0	200	
4000000000000000000000	Trib. to Skeena R.	A7	7.6	10.0	45	
400000000000000000000000000000000000000	Trib. to Skeena R.	A10	8.0	9.0	29	50
400000000000000000000000000000000000000	Trib. to Skeena R.	B6	8.1	9.0	100	40
400000000000000000000000000000000000000	Trib. to Skeena R.	B5	0.1	9.0	100	10
400000000000000000000000000000000000000	Trib. to Skeena R.	B9	8.2	10.0	22	
400000000000000000000000000000000000000	Trib. to Skeena R.	B8	8.5	10.0	70	60
400000000000000000000000000000000000000	Trib. to Skeena R.	B7	8.2	9.0	70	50
400000000000000000000000000000000000000	Trib. to Skeena R.	B66	7.6	8.0	80	30
400000000000000000000000000000000000000	Trib. to Skeena R.	B63	7.6	8.0	55	
400000000000000000000000000000000000000	Trib. to Skeena R.	B62	6.6	12.0	40	
400000000000000000000000000000000000000	Trib. to Skeena R.	A51	7.8	7.0	40	80
+00000000000000000000000000000000000000	THU. W SKEEHA K.	AJI	7.0	7.0		οU

Table 3. Summary of sampling sites for the Kispiox Fish Habitat Inventory.

	Stream Name		Average		Stream		Sampling
Watershed Code	"Local"	Site Number	Channel	Gradient (%)	Classification	Fish Species	Method
400636600000000000	Trib. to Sheladamus	A48	4.5	39	S5	NF	EL
400636600000000000	Sheladamus Cr.	B67	8.5	2	S5	NF	EL
400636000000000000	Guish Cr.	B60	4.9	8	S3	DV,RB	EL
400636000000000000	Guish Cr.	B61	6.6	9	S5	NF	EL
400629400000000000	Willowflat Cr.	B65	12.3	5	S2	DV,RB	EL
400629400000000000	Willowflat Cr.	B64	15.7	5	S5	NF	EL
400000000000000000	Trib. to Skeena R.	B46	4.1	22	S3	RB	EL
400000000000000000	Trib. to Skeena R.	B47	3.0	10	S3	(RB)	VO
400000000000000000	Trib. to Skeena R.	A41	3.1	13	S3	RB	EL
400000000000000000	Trib. to Skeena R.	B58	2.0	30	S6	NF	EL
400000000000000000	Trib. to Skeena R.	B59	3.8	17	S3	DV,RB	EL
400000000000000000	Trib. to Skeena R.	A45	3.4	26	S3	(DV,RB)	EL
400000000000000000	Trib. to Skeena R.	A44	8.3	9	S2	RB,DV	EL
400000000000000000	Trib. to Skeena R.	A43	8.3	22	S2	(DV,RB)	EL
400000000000000000	Trib. to Skeena R.	A42	1.3	4	S4	(DV,RB)	EL
400000000000000000	Trib. to Skeena R.	A46	5.0	11	S2.	RB,DV	EL
400000000000000000	Trib. to Skeena R.	B15	2.2	24	S3	DV,RB	EL
400000000000000000	Trib. to Skeena R.	B16	1.5	20	S6	NF	EL
400000000000000000	Trib. to Skeena R.	B19	2.0	15	S3	(RB)	EL
400000000000000000	Trib. to Skeena R.	B18	2.7	22	S3	LKC	MT
400000000000000000	Trib. to Skeena R.	B17	1.1	2	S4	LKC	EL
400000000000000000	Trib. to Skeena R.	A16	1.5	75	S6	NF	VO
400000000000000000	Swift Cr.	A17	3.9	22	S5	NF	EL
400000000000000000	Trib. to Skeena R.	A15	1.9	22	S6	NF	EL
400000000000000000	Trib. to Skeena R.	A14	2.1	3	S3	(DV,RB)	EL
40000000000000000	Trib. to Skeena R.	A13	NA	1	NC	NF	NA
40000000000000000	Trib. to Skeena R.	A12	3.7	26	S3	CT,DV,RB	EL
40000000000000000	Trib. to Skeena R.	A11	1.6	5	S3	(DV, RB)	EL
40000000000000000	Trib. to Skeena R.	B12	3.8	25	S3	DV	EL
40000000000000000	Nancy Cr.	B11	7.0	25	S2	DV, RB	EL
40000000000000000	Nancy Cr.	B10	6.2	17	S2	DV, (ST)	EL
40000000000000000	Trib. to Skeena R.	B2	6.0	12	S5	NF	EL
40000000000000000	Trib. to Skeena R.	B4	6.5	8	S2	CH,DV,PK	EL
40000000000000000	Trib. to Skeena R.	B3	3.2	3	S5	NF	EL
40000000000000000	Trib. to Skeena R.	B1	5.4	5	S5	NF	EL
40000000000000000	Trib. to Skeena R.	A9	6.2	10	S2	SA	VO
40000000000000000	Trib. to Skeena R.	A3	0.5	23	S6	NF	VO
40000000000000000	Trib. to Skeena R.	A2	1.3	23	S6	NF	EL
40000000000000000	Trib. to Skeena R.	A1	6.0	4	S2	(DV)	EL
40000000000000000	Trib. to Skeena R.	A4	0.6	18	S6	NF	EL
40000000000000000	Trib. to Skeena R.	A5	2.5	6	S3	(DV)	EL
	Trib. to Skeena R.	A6	2.6	9	S3	(DV,RB)	EL
	Trib. to Skeena R.	A8	2.4	1	S3.	(DV,RB)	EL
40000000000000000	Trib. to Skeena R.	A7	4.2	4	S3	(DV,RB)	EL
40000000000000000	Trib. to Skeena R.	A10	2.9	40	S6	NF DV DD	EL
40000000000000000	Trib. to Skeena R.	B6	3.8	10	S3	DV,RB	EL
400000000000000000	Trib. to Skeena R.	B5	3.4	3	S5	NF (BB)	EL
40000000000000000	Trib. to Skeena R.	B9	4.1	3	S3	(RB)	VO
400000000000000000	Trib. to Skeena R.	B8	12.1	4	S2	RB	EL
400000000000000000000000000000000000000	Trib. to Skeena R.	B7	14.8	5	S2	(DV,RB)	EL
400000000000000000000000000000000000000	Trib. to Skeena R.	B66	3.1	3	S3	(DV,RB)	VO
40000000000000000	Trib. to Skeena R.	B63	2.9	3	S6	NF	VO
40000000000000000	Trib. to Skeena R.	B62	1.4	2	S6	NF	EL
400000000000000000	Trib. to Skeena R.	A51	0.9	6	S6	NF	VO

Table 3. Summary of sampling sites for the Kispiox Fish Habitat Inventory.

Watershell Code		C4 N	I	A		C4	1	C1:
4605625500000000 Tink to Tommy Jack A23	Watarshad Cada	Stream Name	Sita Numbar	Average	Cradient (%)	Stream Classification	Fish Species	Sampling Mothed
40063625500000000 The bot Tommy Jack A25								
A006362550000000 Trib. to Tommy Jack A25 1.4 11 83 DV FL								
A9063625500000000								
A0054525500000000		J						
No. No								
## ## ## ## ## ## ## #								
## 49063625569000000		J						
400616255500000000								
40061625500000000 Trib to Shadim Cr. B38 3.8 5 S5 NF EL							`	
## S00278000000000 This to Shedm Cr. B20 23.1 5 5 5 1 (RB) EL.								
#\$80027800000000000 This to Shedim Cr. B28 1.0 1 \$4 \$4 \$6 \$6 \$1 \$4 \$4 \$6 \$6 \$1 \$4 \$4 \$6 \$6 \$6 \$6 \$6 \$6		-						
#8002780000000000 This to Shedin Cr B28 1.0 1 S4 (RB) FIL #80078000000000 This to Shedin Cr B27 1.1 8 S4 (DV) FIL #80078000000000 This to Shedin Cr B23 2.8 7 S3 (RB) EL #80078000000000 This to Shedin Cr B23 2.8 7 S3 (RB) EL #80078000000000 This to Danssumb L B24 2.5 1 S3 (RB) EL #8002780570000000 This to Danssumb L B26 0.9 4 S4 (DV)RB) FIL #8002780570000000 This to Danssumb L B26 0.9 4 S4 (DV)RB) FIL #8002780570000000 This to Danssumb L B29 2.4 2 S3 (DV)RB FIL #8002780570000000 This to Danssumb L B29 2.4 2 S3 (DV)RB EL #8002780570000000 This to Danssumb L A22 2.0 7 S3 (RB) EL #8002780570000000 This to Danssumb L A22 2.0 7 S3 (RB) EL #8002780570000000 This to Danssumb L A21 4.9 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 4.9 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 4.9 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 A49 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 A49 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 A49 2 S2 (DV,RB) EL #8002780570000000 This to Danssumb L A21 A39 S S NF EL #800278000000000 This to Shedin Cr B22 10.3 S S NF EL #800278000000000 This to Shedin Cr B22 10.3 S S NF EL #800278000000000 This to Shedin Cr B34 C6 A S6 NF EL #800278000000000 This to Shedin Cr B34 C6 A S6 NF EL #800278000000000 This to Shedin Cr B36 S9 T S5 NF EL #800278000000000 This to Shedin Cr B36 S9 T S5 NF EL #800278000000000 This to Shedin Cr B36 S9 T S5 NF EL #800278000000000 This to Shedin Cr B36 S9 T S5 NF EL #800278000000000 This to Shedin Cr B36 S9 T S5 NF EL #8002780000000000								
## S002780000000000							_ ` /	
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## S002786570000000				-			/	
## Section ##								
ASDO27856700000000 Trib. to Damsumlo L. B25 1.5 4 S3 (RB) EL.								
AS002786570000000							\ /	
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AS00278000000000 Trib. to Shedin Cr. B30 2.0 6 S3 (DV-RB) EL								
A800278000000000 Trib. to Damsumlo L. A18								
AS002780000000000								
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					2.			
AS002780000000000 Trib. to Shedin Cr. B34 2.6 4 S6 NF EL								
A8002780000000000 Shedin Cr. B33 14.5 2 S5 NF EL								
A800278000000000 Trib. to Shedin Cr. B35 B35 B35 B35 B35 B48 B55 B66 B76 B14 A8002780000000000 Trib. to Shedin Cr. B36 B37 B37 B37 B1.5 A B36 B18 B2 B24 A800278000000000 Trib. to Shedin Cr. B49 B37 B37 B38 B32 B38 B32 B48 A800278000000000 Trib. to Shedin Cr. B49 B37 B38 B38								
A8002780000000000 Shedin Cr. B36 9.0 7 S5 NF EL								
A800278000000000								
4800278000000000 Trib. to Shedin Cr. B49 6.3 18 S2 DV EL 48002780000000000 Trib. to Shedin Cr. B57 5.0 15 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B56 5.0 33 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B55 5.0 30 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B52 4.0 15 S3 (DV) VO 48002780000000000 Trib. to Shedin Cr. B52 4.0 15 S3 (DV,RB) VO 4800278000000000 Trib. to Shedin Cr. B54 5.0 18 S2 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B53 5.0 12 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. A40 3.0 10 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
48002780000000000 Trib. to Shedin Cr. B57 5.0 15 S3 (DV,RB) VO 480027800000000000 Trib. to Shedin Cr. B56 5.0 33 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B55 5.0 30 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B52 4.0 15 S3 (DV) VO 48002780000000000 Trib. to Shedin Cr. A32 18.7 4 S2 DV EL 48002780000000000 Trib. to Shedin Cr. B54 5.0 18 S2 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B53 5.0 12 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B50 2.8 2 S3 DV EL 48002780000000000 Trib. to Shedin Cr. B51 3.0 1 S5 NF NA 48002780000000000 Trib. to Shedin Cr. A36								
4800278000000000 Trib. to Shedin Cr. B56 5.0 33 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B55 5.0 30 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B52 4.0 15 S3 (DV) VO 48002780000000000 Trib. to Shedin Cr. A32 18.7 4 S2 DV EL 48002780000000000 Trib. to Shedin Cr. B54 5.0 18 S2 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B53 5.0 12 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B50 2.8 2 S3 DV EL 48002780000000000 Trib. to Shedin Cr. B51 3.0 1 S5 NF NA 48002780000000000 Trib. to Shedin Cr. A38 11.5 3 S2 DV EL 48002780000000000 Trib. to Shedin Cr. A34							(DV.RB)	
48002780000000000 Trib. to Shedin Cr. B55 5.0 30 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B52 4.0 15 S3 (DV) VO 48002780000000000 Trib. to Shedin Cr. A32 18.7 4 S2 DV EL 48002780000000000 Trib. to Shedin Cr. B54 5.0 18 S2 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B53 5.0 12 S3 (DV,RB) VO 48002780000000000 Trib. to Shedin Cr. B50 2.8 2 S3 DV EL 48002780000000000 Trib. to Shedin Cr. B51 3.0 1 S5 NF NA 48002780000000000 Trib. to Shedin Cr. A38 11.5 3 S2 DV EL 48002780000000000 Trib. to Shedin Cr. A36 10.0 7 S5 NF VO 480027800000000000 Trib. to Shedin Cr. A33 <								
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Table 4. Summary of S5 and S6 sites for the Kispiox Fish Habitat Inventory.

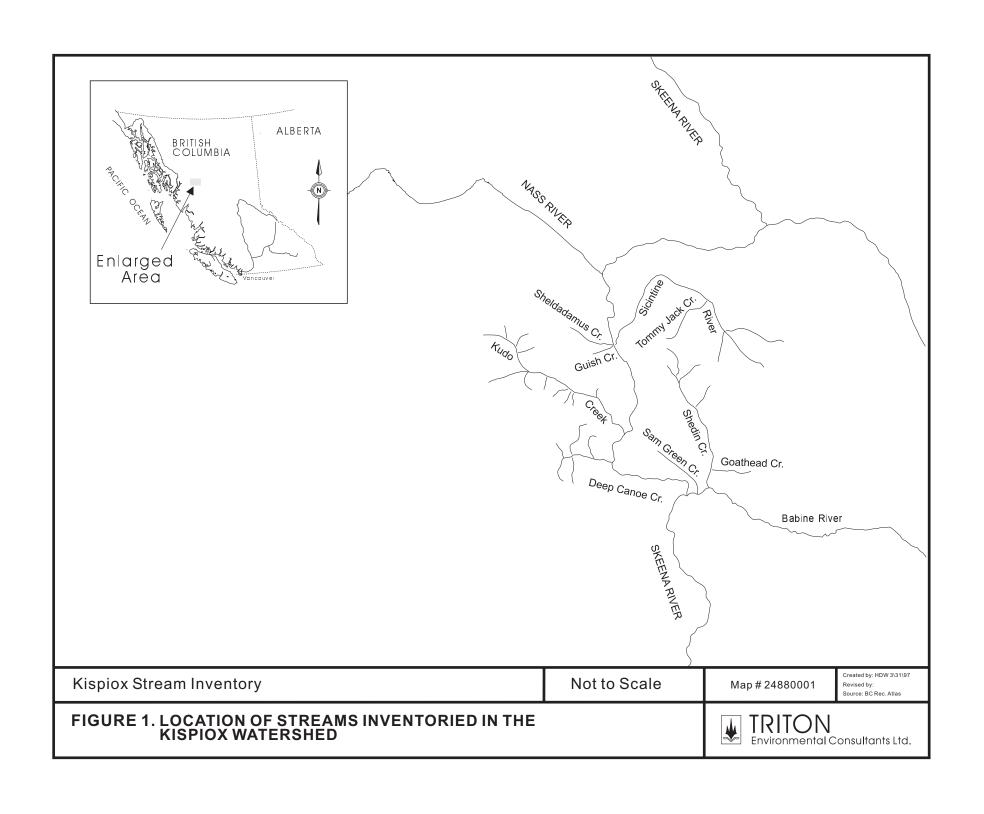
Site Number	Classification	Comment
A28	S6	Some very nice rearing habitat, with a lot of LOD cover, was observed at this site. However, the falls at the mouth of this stream appear to prevent fish access upstream, resulting in the S6 classification.
B39	S5	The 10 meter falls located downstream of the sampling area and the lack of overwintering habitat make the presence of fish at this site unlikely. As a result this reach has been classified as non fish bearing.
B38	S5	This reach has been classified as non fish bearing because of a 4 m cascade (located downstream of the sampling area), which
B21	S6	appears to prevent fish passage upstream and a lack of lakes which could support resident populations. This site has been classified as an S6 because of the steep gradient and lack of suitable fish habitat. The absence of holding pools in
B32	S5	particular was noted by the crew. No fish were caught at this site which is located 1.2 km upstream of the 25m falls and 2.0 km upstream of the 6m falls. As a result
B31	S5	this reach has been classified as non fish bearing. This reach has been classified as non fish bearing because it is located above a 25m and a 6m falls and no evidence of a resident
B22	S5	poulation was found in the electroshocking trial. No fish were caught in the sampling area, which occurs upstream of an impassable 25 meter falls. As a result this reach has been
B34	S6	classified as non fish bearing. No fish were caught at this site, which is located above the 25 meter falls on Shedin Creek. As a result this stream has been given a
B33	S5	non fish bearing classification. The creek flows from a shallow alpine lake in which fish would be subject to winter kill. The falls below would also prevent fish
B35	S6	passage upstream. As a result this section of Shedin Creek has been classified as non fish bearing. This site could provide rearing habitat and limited spawning habitat. However, there is a lack of overwintering habitat in this stream
B36	S5	above the 25 meter falls. As such it is classified as non fish bearing. Some very nice deep pool cover was observed at this site. However, it is extremely unlikely that this site, which is located above a
B37	S6	25 meter falls, would support a resident population. Reach 1 has a gradient of 50% and has cascades up to 5 meters in height. Reach 2 has a lower gradient and some pool habitat. It is
B51	S5	also connected to a small, shallow lake. The entire area has been classified as non fish bearing as a result. Suitable fish habitat does not occur in this intermittent channel. As a result a non fish bearing classification was assigned. Future
A36	S5	sampling is recommended at high flow. This stream was classed as non fish bearing. The large falls on this system would prevent fish access from the main creek and it is
		unlikely that a resident population would reside between the two large falls on this stream.
A37	S5	This stream occurs above a large falls. In addition, the gradient in reach 2 of this stream is far too steep to accommodate fish. As a result this stream has been classified as non fish bearing.
A34	S6	No fish habitat exists at this site. The gradient is too steep to accomodate fish.
A35	S6	This site provides no fish habitat. The gradient is too steep to accommodate fish.
A33	S5	The steep gradient at this site precludes the presence of fish.
B13	S5	The steep gradient and 7 meter falls would prevent fish access into this stream from Kuldo Creek. A resident population is not expected upstream of the barrier system due to the lack of overwintering habitat.
B43	S5	There is a very low probability of the presence of a resident population above the 10 meter falls on this stream and as such this real has been classified as non fish bearing. An additional 8 and 4 meter cascade was also noted.
B42	S5	The 5 m and 4m falls would prevent fish access upstream. Upstream of the falls lacks overwintering habitat which resulted in a nefish bearing classification.
B41	S6	The 7, 5 and 3m cascades, as well as the lack of overwintering habitat have resulted in this stream being classed as non fish bearing
B44	S5	There are several falls downstream of the site which bar fish passage upstream. There is also a low probability of a resident fish population. As a result this stream has been classified as non fish bearing. Future sampling is recommended however.
A47	S6	This stream has been classified as an S6 because it does not contain suitable fish habitat and has a steep gradient at the mouth, which would impede fish passage upstream.
A49	S5	Great rearing cover and spawning habitat occurs at this site, located above an impassable 10m falls. No evidence of a resident fish population was found in the electroshocking trial at this site or at B67, hence the non fish bearing classification.
A48	S5	This stream was given a non fish bearing classification because of the steep gradient and lack of suitable fish habitat observed in t sampling area. Water was sheeting over bedrock at the mouth of the stream.
B67	S5	Some good spawning and rearing habitat was observed at the inouth of the stream. Some good spawning and rearing habitat was observed at this site. However, the 10 meter falls below the sampling area would prevent fish passage into this reach and there is a lack of overwintering habitat.
B61	S5	The series of falls and the low probability of a resident population has resulted in the classification of this reach as non fish bearing
B64	S5	Future sampling is recommended to confirm the absence of fish at this site. A 10 meter falls was observed 50 meters downstream of the road crossing. No fish were caught at this site, which is located above 7 meter falls. As such this road is also find as now fish bearing.
B58	S6	7 meter falls. As such this reach is classified as non fish bearing. This stream has been classified as non fish bearing because of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient, lack of overwintering habitat and the presence of the steep gradient and the steep gradient gradient and the steep gradient grad
		falls and cascades near the mouth. An aerial reconnaisance revealed that large sections of blowdown occur in this area.

Table 4. Summary of S5 and S6 sites for the Kispiox Fish Habitat Inventory.

Site Number	Classification	Comment
A16	S6	The falls at the mouth of this stream are an obstruction to fish passage upstream. As a result the stream was classified as an S6.
A17	S5	The cascades noted at the confluence of this stream with the Skeena River would be significant barriers to fish passage. A large falls was observed at the road crossing at this site.
A15	S6	Some nice step pool habitat was noted at this site, upstream of the road crossing. However, there is a 3 meter cascade 100 meters from the confluence with the Skeena and the series of cascades (some up to 1 meter in height).
B2	S5	This stream has been classified as non fish bearing because of the series of falls and cascades on this creek, which would prevent fish passage upstream.
В3	S5	This stream has been classified as non fish bearing because of the 8 meter falls located downstream of the sampling area.
B1	S5	This reach has been classified as non fish bearing because it is located above an impassable 8 meter falls and it lacks overwintering habitat. Future sampling is recommended to confirm that the reach is non fish bearing.
A3	S6	No fish habitat was observed at this site. This stream is currently running over a moss bed and contains much debris which will likely wash out at higher flow. The lack of suitable habitat has resulted in this stream being classified as an S6.
A2	S6	This tributary is located above a 7m and two, 3m falls on the main tributary and has steep gradient and numerous cascades which would make fish use improbable, hence the non fish bearing classification.
A4	S6	This creek did not appear on the field map and is most likely ephemeral. It does not contain suitable fish habitat and as a result has been classified as an S6.
A10	S6	This stream has been given a non fish bearing classification because the 2 meter high cascade located 45 meters from the mouth and the 40% gradient noted in the sampling area would prevent fish passage upstream.
В5	S5	This reach has been given a non fish bearing classification because the 3m falls located approximately 150m upstream of the confluence with the Skeena River, prevent fish passage upstream.
B62	S6	Poor fish habitat was observed at this site and the steep gradient downstream of the sampling area would prevent fish passage upstream. As a result this reach has been classified as non fish bearing.
A51	S6	This is an ephemeral creek with no suitable fish habitat. The channel is ill defined at the outlet of the small lake to which this stream is attached. Steep gradient and chutes were noted at the mouth

Table 5 Summary of the Riparian Management Area for streams based on riparian class.

		Reserve Zone Width	Management Zone	
Riparian Class	Channel Width (m)	(m)	Width (m)	Total RMA Width (m)
S1 Large Rivers	>100	0	100	100
S1	>20	50	20	70
S2	>5 - 20	30	20	50
S3	1.5 - 5	20	20	40
S4	<1.5	0	30	30
S5	> 3	0	30	30
S6	<3	0	20	20



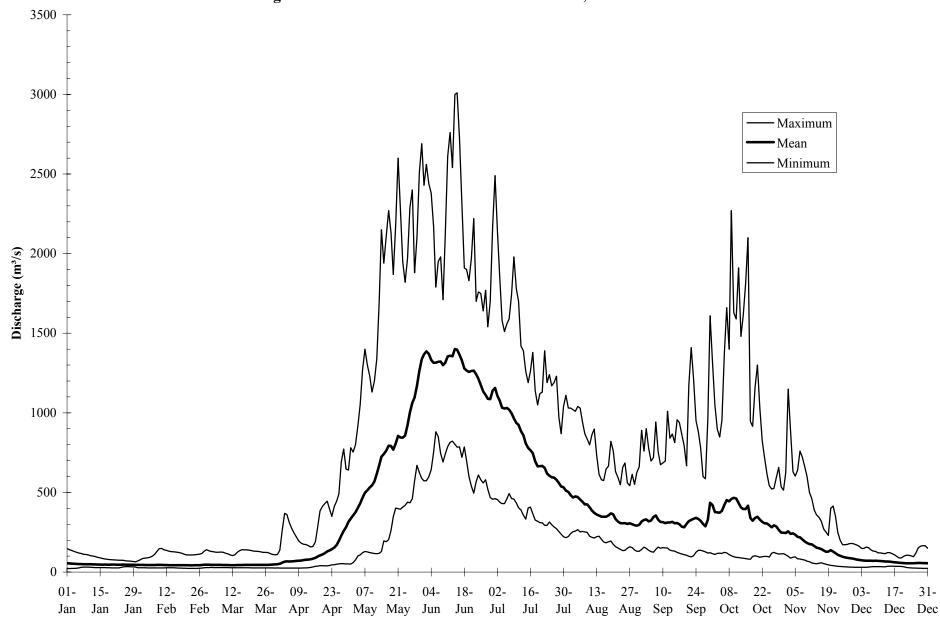


Figure 2. Skeena River above the Babine River, 1970 to 1994

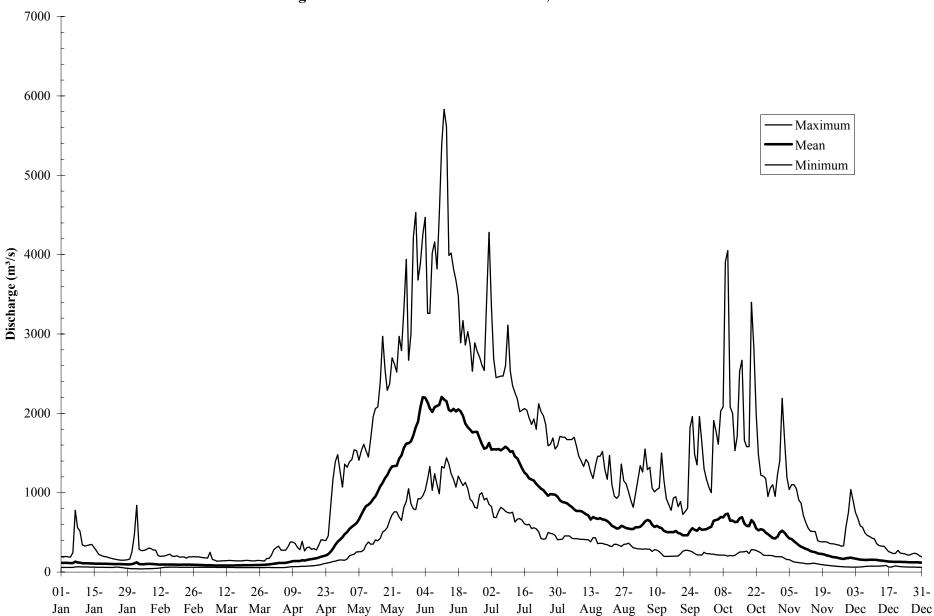
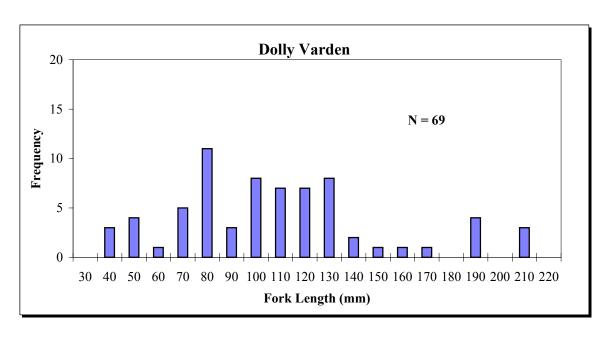


Figure 3. Skeena River at Glen Vowell, 1960 to 1985



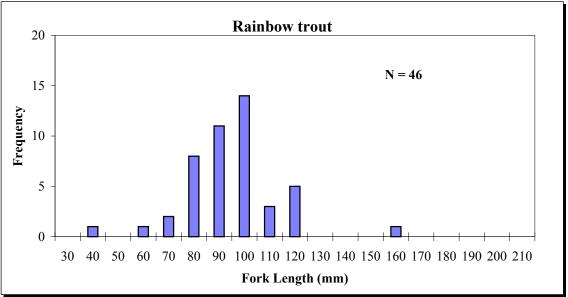


Figure 4. Fork length frequencies of two main salmonid species caught in the Skeena watershed. Data principally from Skeena River, Tommy Jack Creek and Shedin Creek, with some specimens from Willowflat Creek, Guish Creek, Kuldo Creek, Nancy Creek, and Sam Green Creek.

It appears that the Dolly Varden population is made up of at least two, possibly three, age groups, whereas the rainbow trout population is made up of individuals belonging to one age group.

Appendix 1

Photodocumentation

Appendix 1. 1996 Kispiox Surveys Photo-documentation (all photos taken with Canon Sure-Shot A1 Prima AS-1, automatic camera, 32 mm lens, using 24 exposure 200 ISO film)

Crew		Frame								UTM			Reach	Site		Photo	Photo		
Initial	Roll	Number	Watershed Code	Survey Crew	Site #	Agency	Survey Date	Stream "Local"	Map #	Zone	Easting	Northing	Number	Number	Aspect	Direction	Type	Scale Item	Caption
A	1	4	400000000000000000000000000000000000000	GM KG	A1	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5728	62007	4	1	NW	Up	Ch	D K L C	Looking upstream at site A1.
A	1	5	400000000000000000000000000000000000000	GM KG GM KG	A1 A2	TEC TEC	10-Sep-96 10-Sep-96	Trib to Skeena R. Trib to Skeena R.	93 M 091 93 M 091	9	5728 5725	62007	4	2	NW NW	Dn Dn	Ch	Person - Karla G.	Looking downstream at site A1. There are a series of falls downstream. Looking downstream.
A	1	6	400000000000000000000000000000000000000	GM KG	A2	TEC	10-Sep-96 10-Sep-96	Trib to Skeena R.	93 M 091	9	5725	6200	4	2	NW	Up	Ch	Person - Karla G.	Looking upstream at an ephemeral stream.
A	1	8	400000000000000000000000000000000000000	GM KG	A3	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5722	62004	3	3	NW		Ch	reison - Kana G.	Looking upstream.
A	1	9	400000000000000000000000000000000000000	GM KG	A3	TEC	10-Sep-96	Trib to Skeena R	93 M 091	9	5722	62004	3	3	NW	∪p Dn	Ch		Looking downstream. Stream running over moss bed.
A	1	10	400000000000000000000000000000000000000	GM KG	A4		10-Sep-96	Trib to Skeena R	93 M 091	9	5729	62005	1	4	N	Up	Ch		Looking upstream.
A	1	11	400000000000000000000000000000000000000	GM KG	A4		10-Sep-96	Trib to Skeena R.	93 M 091	9	5729	62005	1	4	N	Dn	Ch		Looking downstream.
A	1	14	400000000000000000000000000000000000000	GM KG	A4		10-Sep-96	Trib to Skeena R.	93 M 091	9	5729	62005	1	4	N	Up	Ch	Aerial photo.	Falls d/s of A4. Aerial photo.
A	1	15	400000000000000000000000000000000000000	GM KG	A4	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5729	62005	1	4	N	Up	Ch	Aerial photo.	Falls d/s of A4. Aerial photo.
A	1	16	400000000000000000000000000000000000000	GM KG	A4	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5729	62005	1	4	N	Up	Ch	Aerial photo.	Falls on mainstem downstream of A4 tributary. Aerial photo.
A	1	12	4000000000000000000000000000000000000	KG GM	A5	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5730	62005	4	5	W	Up	Ch	Log across creek.	Looking downstream.
A	1	13	400000000000000000000000000000000000000	KG GM	A5	TEC	10-Sep-96	Trib to Skeena R.	93 M 091	9	5730	62005	4	5	W	Dn	Ch		Looking upstream.
A	1	17	400000000000000000000000000000000000000	GM KG	A6	TEC	11-Sep-96	Trib to Skeena R.	93 M 091	9	5743	62009	4	6	W	Dn	Ch	Log.	Looking downstream.
A	1	18	400000000000000000000000000000000000000	GM KG	A6	TEC	11-Sep-96	Trib to Skeena R.	93 M 091	9	5743	62009	4	6	W	Up	Ch	Person - Guy M.	Looking upstream.
A	1	19	400000000000000000000000000000000000000	GM KG	A7	TEC	11-Sep-96	Trib to Skeena R.	93 M 091	9	5730	62013	4	7	NW	Dn	Ch		Photo taken at confluence.
A	1	20	400000000000000000000000000000000000000	GM KG GM KG	A7	TEC	11-Sep-96	Trib to Skeena R. Outlet of Smokee Lake	93 M 091 93 M 091	9	5730 6325	62013	4	8	NW SE	Up	Ch		Large organic debris in pool.
A	1	21	400000000000000000000000000000000000000	GM KG	A8 A8	TEC	11-Sep-96 11-Sep-96	Outlet of Smokee Lake	93 M 091	9	6325	61023	4	8	SE SE	Up Dn	Ch Ch		Channel with willows in it. Looking unstream
A	2	1	400000000000000000000000000000000000000	GM KG	A8	TEC	11-Sep-96	Outlet of Smokee Lake	93 M 091	9	6325	61023	4	8	SE	Xs	Ch		Open meadow.
A	2	3	400000000000000000000000000000000000000	GM KG	A9	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5696	62015	1	9	NW	Up	Ch		Cascades at confluence with Skeena.
A	2	4	400000000000000000000000000000000000000	GM KG	A9	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5696	62015	1	9	NW	Dn	Ch		Confluence with Skeena R.
A	2	5	400000000000000000000000000000000000000	GM KG	A10	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5694	62021	1	10	W	Up	Ch	Person - Karla G.	40% gradient
A	2	6	400000000000000000000000000000000000000	GM KG	A10	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5694	62021	1	10	W	Dn	Ch		Confluence with Skeena R.
A	2	10	4000000000000000000000000000000000000	GM KG	A11	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5697	61947	2	11	W	Up	Ch	Person - Guy M.	2.5 m high falls.
A	2	11	4000000000000000000000000000000000000	GM KG	A11	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5697	61947	2	11	W	Dn	Ch	Flagging tape in tree	Flagging tape in tree over channel
A	2	7	4000000000000000000000000000000000000	GM KG	A11	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5697	61947	2	11	W	Up	Ch		Falls.
A	2	8	400000000000000000000000000000000000000	GM KG	A11	TEC	12-Sep-96	Trib to Skeena R.	93 M 091	9	5697	61947	2	11	W	Up	Ch	Person - Guy M.	Falls.
A	2	9	400000000000000000000000000000000000000	GM KG	A11		12-Sep-96	Trib to Skeena R.	93 M 091	9	5697	61947	2	11	W	Up	Ch		3 m falls.
A	2	12	40000000000000000000000000000000000000	GM KG	A12	TEC	12-Sep-96	Trib to Skeena R.	93 M 091 93 M 091	9	5705	61964	1	12	NW NW	Up	Ch	Person - Guy M.	Cascade that is not a barrier to fish passage.
A	2	13 14	400000000000000000000000000000000000000	GM KG	A12		12-Sep-96	Trib to Skeena R.	93 M 091	9	5705 5705	61964	1	12		D	Fi	Anode, book,	Rainbow trout captured by electrofishing.
A A	2	15	400000000000000000000000000000000000000	GM KG GM KG	A12 A12		12-Sep-96 12-Sep-96	Trib to Skeena R. Trib to Skeena R.	93 M 091	9	5705	61964	1	12 12	NW NW	Dn Dn	Ch Ch		Looking d/s at confluence with Skeena River. Looking d/s at confluence with Skeena River.
A	2	16	400000000000000000000000000000000000000	GM KG	A13		12-Sep-96	Trib to Skeena R.	93 M 081	9	5699	61954	0	13	S	Dii	Ch		Tree roots exposed by high flows.
A	2	17	400000000000000000000000000000000000000	GM KG	A13		12-Sep-96	Trib to Skeena R.	93 M 081	9	5699	61954	0	13	S		Ch		Dry channel.
A	2	18	400000000000000000000000000000000000000	GM KG	A13		12-Sep-96	Trib to Skeena R.	93 M 081	9	5699	61954	0	13	S	Dn	Ch	Anode pole	Trickle flow observed in exposed sections.
A	2	19	400000000000000000000000000000000000000	GM KG	A14	TEC	12-Sep-96	Trib to Skeena R.	93 M 081	9	5697	61947	1	14	W	Up	Ch		Upstream view through culvert.
A	2	20	400000000000000000000000000000000000000	GM KG	A14	TEC	12-Sep-96	Trib to Skeena R.	93 M 081	9	5697	61947	1	14	W	Up	Ch		Upstream view through culvert.
A	2	21	4000000000000000000000000000000000000	GM KG	A14	TEC	12-Sep-96	Trib to Skeena R.	93 M 081	9	5697	61947	1	14	W	Dn	Ch		Looking downstream.
A	2	22	400000000000000000000000000000000000000	GM KG	A15	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5692	61939	2	15	NW	Up	Ch		Looking upstream from culvert.
A	2	23	400000000000000000000000000000000000000	GM KG	A15	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5692	61939	2	15	NW	Dn	Ch	culvert	Looking downstream from culvert.
A	2	24	400000000000000000000000000000000000000	GM KG	A15	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5692	61939	2	15	NW NW	Up	Ch	meterstick	Culvert parallel to flow.
A	3	23	400000000000000000000000000000000000000	GM KG GM KG	A15 A16	TEC TEC	13-Sep-96 13-Sep-96	Trib to Skeena R. Trib to Skeena R	93 M 081 93 M 081	9	5692 56808	61939	1	15 16	SE	Up	Ch		
A	3	2	400000000000000000000000000000000000000	GM KG	A16	TEC	13-Sep-96 13-Sep-96	Trib to Skeena R.	93 M 081	9	56808	619208	1	16	SE	Up Up	Ch		Falls into Skeena, upstream view. Falls are an obstruction to fish passage.
A	3	4	400000000000000000000000000000000000000	GM KG	A16	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	56808	619208	1	16	SE	Up	Ch		Aerial photo of falls.
A	3	6	400000000000000000000000000000000000000	GM KG	A17	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5689	61932	2	17	SE	Up	Ch	John P.	Looking upstream at 5m falls.
A	3	7	400000000000000000000000000000000000000	GM KG	A17	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5689	61932	2	17	SE	Dn	Ch	Guy M.	Looking downstream.
A	3	8	400000000000000000000000000000000000000	GM KG	A17	TEC	13-Sep-96	Trib to Skeena R.	93 M 081	9	5689	61932	2	17	SE	Xs	Ch		Upstream view of Skeena river, falls on left are a barrier to fish passage.
A	3	10	480300000000000000000000000000000000000	GM KG	A18	TEC	13-Sep-96	trib to Damsulo L.	93 M 092	9	5755	62025	1	18	Е	Up	Ch	helicopter	Looking upstream.
A	3	9	480300000000000000000000000000000000000	GM KG	A18	TEC	13-Sep-96	trib to Damsulo L.	93 M 092	9	5755	62025	1	18	Е	Dn	Ch		Looking downstream. Gravel bar in creek.
A	3	11	480300000000000000000000000000000000000	GM KG	A19	TEC	13-Sep-96	trib to Damsulo L.	93 M 092	9	5754	62024	1	19	E	Up	Ch	Person	Potential rearing habitat.
A	3	12	480300000000000000000000000000000000000	GM KG JP	A20	TEC	13-Sep-96	trib to Damsulo L.	93 M 092	9	57606	620120	1	20	S	Dn	Ch		Looking downstream.
A	3	13	480300000000000000000000000000000000000	GM KG JP	A20	TEC	13-Sep-96	trib to Damsulo L.	93 M 092	9	57606	620120	1	20	S	Up D-	Ch	Decels Isl D V '	Looking upstream.
A A	3	14 15	480300000000000000000000000000000000000	GM JP KG GM JP KG	A21	TEC	13-Sep-96	trib to Damsulo L.	93 M 092 93 M 092	9	5763 5763	62009	2	21	S	Dn	Ch	People - John P., Karla	Potential rearing habitat.
A	3	16	480300000000000000000000000000000000000	GM JP KG GM KG JP	A21		13-Sep-96 13-Sep-96	trib to Damsulo L.	93 M 092	9	5777	62009	1	22	SW	Up Dn	Ch	person	Looking downstream.
A	3	17	480300000000000000000000000000000000000	GM KG JP	A22		13-Sep-96 13-Sep-96	trib to Damsulo L.	93 M 092	9	5777	62000	1	22	SW	Up	Ch	1	Large organic debris in creek.
A	3	23	40063625560000000000000000000000000000000	GM KG	A23	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5808	62177	i	23	NW	Xs	Ch	Karla G.	Looking towards mouth of tributary from Tommy Jack Creek.
A	3	24	40063625560000000000000000000000000000000	GM KG	A23		14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5808	62177	1	23	NW	Up	Ch	Karla G.	Looking upstream.
A	4	1	4006362 5560000000000000000000000000000000000	GM KG	A24	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5805	62168	1	24	N	Up	Ch	Log across creek	Cascade in background.
A	4	2	4006362 5560000000000000000000000000000000000	GM KG	A24	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5805	62168	1	24	N	Dn	Ch		LOD parallel to flow
A	4	3	40063625560000000000000000000000000000	GM KG	A25	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	580	62168	1	25	W		Fi	Fish on 6" anode ring,	Dolly Varden on anode.
A	4	4	40063625560000000000000000000000000000000	GM KG	A25	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	580	62168	1	25	W	Dn	Ch	Zip-loc bags on right	Looking downstream.
A	4	5	40063625560000000000000000000000000000000	GM KG	A25	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	580	62168	- 1	25	W	Up	Ch	Tree trunk	Looking upstream.
A	4	6	40063625560000000000000000000000000000000	GM KG	A25	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	580	62168	1	25	W		Fi	Fish in bags	Dolly Varden in bags.
A	4	8	400 6362 5560000000000000000000000000000000000	GM KG	A26	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5805	62162	1	26	NW	Dn	Ch	Log	Mossy log across channel
A A	4	9 10	400 6362 5560000000000000000000000000000000000	GM KG KG DD	A26 A27	TEC	14-Sep-96	trib to Tommy Jack Cr.	94 D 002 94 D 002	9	5805 5802	62162 62149	1	26 27	NW NW	Up	Ch		Looking upstream.
	4	11	40063625560000000000000000000000000000000	KG DD KG DD	A27	TEC	15-Sep-96 15-Sep-96	trib to Tommy Jack Cr. trib to Tommy Jack Cr.	94 D 002	0	5802	62149	1	27	NW	Up Dn	Ch	Backpack	Looking upstream, blowdown across channel. 2 logs across channel. looking downstream.
A	4	11	~00030233000000000000000000000000000000	עת מא	1421	ILC	13-3cp-90	uto to roudilly Jack Cr.	74 D 002	, ,	3002	02149	1	21	IN W	DII	CII	Баскраск	2 1053 across channer, fooking downstream.

Crew		Frame								UTM			Reach	Site		Photo	Photo		
Initial	Roll	Number	Watershed Code	Survey Crew	Site #	Agency	Survey Date	Stream "Local"	Map #	Zone	Easting	Northing	Number	Number	Aspect	Direction	Type	Scale Item	Caption
A	4	12	40063625560000000000000000000000000000000	DD KG	A28	TEC	15-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5800	62145	2	28	NW	Up	Ch	Darrel D.	There are falls at the mouth of the tributary.
A	4	13	40063625560000000000000000000000000000000	DD KG	A28	TEC	15-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5800	62145	2	28	NW	Dn	Ch		Woody debris over fine substrate.
A	4	14	40063625560000000000000000000000000000000	DD KG	A28	TEC	15-Sep-96	trib to Tommy Jack Cr.	94 D 002	9	5800	62145	2	28	NW	Up	Ch	Darrel D.	Falls at the mouth of the creek.
A	4	15	400 6362556000000000000000000000000000000000	DD KG	A29	TEC	15-Sep-96	back channel of Tommy Jack Cr.	94 D 002	9	5800	62145	0	29	N.E.	Xs	Ch	hat	Not a creek due to a lack of defined channel.
A	4	16 17	40063625560000000000000000000000000000000	KG DD KG DD	A30 A30	TEC	15-Sep-96	trib to Tommy Jack Cr. trib to Tommy Jack Cr.	94 D 002 94 D 002	9	5798 5798	62142 62142	1	30 30	NE NE	Up	Ch	Darrel D.	Looking upstream. Small channel at base of tree.
A A	4	18	4800278000000000000000000000000000000000	JP KG	A30 A32	TEC	15-Sep-96 16-Sep-96	trib to 1 ommy Jack Cr.	94 D 002 93 M 073	9	5874	62142	1	32	NE NE	Up Up	Ch Ch		Large cobble/gravel bars.
A	4	19	4800278000000000000000000000000000000000	JP KG	A32	TEC	16-Sep-96	trib to Shedin Cr.	93 M 073	9	5874	61854	1	32	NE NE	Dn	Ch	Helicopter	Looking downstream
A	4	20	4800278000000000000000000000000000000000	JP KG	A32	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5755	61769	1	33	NW	Up	Ch	Aerial photo	Aerial photo of falls
A	4	21	480027811600000000000000000000000000000000000	KG JP	A34	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5910	61813	1	34	SW	Xs	Ch		Steep gradient - alpine run off. Aerial photo.
A	4	22	480027811600000000000000000000000000000000000	KG JP	A35	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5912	61813	1	35	SW	Up	Ch	Aerial photo	Aerial photo of confluence at falls.
A	5	7	480027811600000000000000000000000000000000000	JPKG	A36	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5789	62025	1	36	S	Up	Ch		Falls on tributary to Goathead Creek.
A	4	23	480027811600000000000000000000000000000000000	JP KG	A37	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5943	61836	1	37	W		Ch	Aerial photo	Aerial photo of falls.
A	5	1	480027811600000000000000000000000000000000000	JP KG	A37	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5943	61836	1	37	W	Up	Ch	Aerial photo	Aerial photo of creek.
A	5	2	480027811600000000000000000000000000000000000	JP KG	A37	TEC	16-Sep-96	trib to Goathead Cr.	93 M 073	9	5943	61836	1	37	W	Up	Ch	Aerial photo	
A	5	10	480027811600000000000000000000000000000000000	JP KG	A38	TEC	16-Sep-96	Goathead Cr.	93 M 073	9	5910	61834	1	38	W	Xs	Ch		Looking across channel.
A	5	11	480027811600000000000000000000000000000000000	JP KG	A38	TEC	16-Sep-96	Goathead Cr.	93 M 073	9	5910	61834	1	38	W	Dn	Ch		Looking downstream.
A	5	9	480027811600000000000000000000000000000000000	JP KG JP KG	A38 A39	TEC	16-Sep-96	Goathead Cr.	93 M 073	9	5910 5910	61834	1	38	W	Xs	Fi Ch		Dolly Varden in bag.
A A	5	12	480027811600000000000000000000000000000000000	JP KG JP KG	A39	TEC	16-Sep-96 16-Sep-96	trib to Goathead Cr. trib to Goathead Cr.	93 M 073	9	5910	61834	1	39	S	Dn	Ch	Karla	Gravel bar in creek. Sampling by electrofishing.
A	5	14	4800278000000000000000000000000000000000	KG JP	A39 A40	TEC	16-Sep-96 16-Sep-96	trib to Goathead Cr.	93 M 073	9	5881	61816	2	40	E	Up	Ch	Kana	Aerial photo, creek not visible.
A	5	15	4800278000000000000000000000000000000000	KG JP	A40	TEC	16-Sep-96	trib to Shedin Cr.	93 M 073	9	5881	61816	2	40	E	Xs	Ch		Aerial photo, creek at top of photo.
A	5	16	4800278000000000000000000000000000000000	KG JP	A40	TEC	16-Sep-96	trib to Shedin Cr.	93 M 073	9	5881	61816	2	40	E		Ch		Aerial photo, creek not visible.
A	5	17	4800278000000000000000000000000000000000	KG JP	A40	TEC	16-Sep-96	trib to Shedin Cr.	93 M 073	9	5881	61816	2	40	E	Bd	Ch	Helicopter skid	Aerial photo, creek below.
A	5	18	400000000000000000000000000000000000000	KG JP	A41	TEC	16-Sep-96	Trib to Skeena R.	93 M 072	9	5756	61796	1	41	SE		Fi		Rainbow trout in bag.
A	5	19	400000000000000000000000000000000000000	KG JP	A41	TEC	16-Sep-96	Trib to Skeena R.	93 M 072	9	5756	61796	1	41	SE	Xs	Ch	notebook	Looking downstream.
A	5	20	400000000000000000000000000000000000000	KG JP	A41	TEC	16-Sep-96	Trib to Skeena R.	93 M 072	9	5756	61796	1	41	SE	Up	Ch	person	Looking upstream.
A	6	1	400000000000000000000000000000000000000	JP KG	A42	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5707	61834	3	42	S	Dn	Ch	Jean	Looking downstream.
A	6	2	400000000000000000000000000000000000000	JP KG	A42	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5707	61834	3	42	S	Up	Ch		Potential rearing habitat.
A	6	3	400000000000000000000000000000000000000	JP KG	A43	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5721	61829	2	43	SW	Dn	Ch	notebook	Looking downstream.
A	6	4	400000000000000000000000000000000000000	JP KG	A43	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5721	61829	2	43	SW	Up	Ch		Looking upstream.
A A	6	5	40000000000000000000000000000000000000	JP KG JP KG	A44 A44	TEC	17-Sep-96	Trib to Skeena R. Trib to Skeena R	93 M 071	9	5712 5712	61778	1	44	S	Up	Ch Ch	W 1	Cascade at confluence which is not a barrier to fish passage. Looking unstream
A	6	7	400000000000000000000000000000000000000	JP KG JP KG	A44	TEC	17-Sep-96 17-Sep-96	Trib to Skeena R. Trib to Skeena R.	93 M 071	9	5712	61778	1	44	S	Up Dn	Ch	Karla	Looking upstream. Looking downstream.
A	6	8	400000000000000000000000000000000000000	JP KG	A44	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	0	5712	61778	1	45	NE	Up	Ch	notebook	Logiam above cascade.
A	6	9	400000000000000000000000000000000000000	JP KG	A45	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5712	61778	1	45	NE	Dn	Ch	поссоок	Looking downstream.
A	6	10	400000000000000000000000000000000000000	JP KG	A46	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5698	61778	1	46	NW	Up	Ch	Karla	Sampling by electrofishing at confluence.
A	6	11	400000000000000000000000000000000000000	JP KG	A46	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5698	61778	1	46	NW	Up	Ch		Looking upstream.
A	6	12	400000000000000000000000000000000000000	JP KG	A46	TEC	17-Sep-96	Trib to Skeena R.	93 M 071	9	5698	61778	1	46	NW	Dn	Ch		Looking downstream.
A	6	16	400636600000000000000000000000000000000	JP KG	A47	TEC	18-Sep-96	trib to Sheladamus Cr.	94 D 001	9	5628	62115	1	47	N	Up	Ch	Karla	Small cascade.
A	6	17	400636600000000000000000000000000000000	JP KG	A47	TEC	18-Sep-96	trib to Sheladamus Cr.	94 D 001	9	5628	62115	1	47	N	Dn	Ve		
A	6	14	400636600000000000000000000000000000000	JP KG	A48	TEC	18-Sep-96	trib to Sheladamus Cr.	94 D 001	9	5627	62117	1	48	SW		Ch		Photo location on map.
A	6	18	400636600000000000000000000000000000000	JP KG	A48	TEC	18-Sep-96	trib to Sheladamus Cr.	94 D 001	9	5627	62117	1	48	SW	Up	Ch		Cascade.
A	6	19	400636600000000000000000000000000000000	JP KG JP KG	A48 A49	TEC	18-Sep-96	trib to Sheladamus Cr. Sheladamus Cr.	94 D 001 94 D 001	9	5627 5628	62117 62116	1	48 49	SW E	Dn	Ch	meterstick	Looking downstream.
A A	6	20	400636600000000000000000000000000000000	JP KG JP KG	A49 A49	TEC	18-Sep-96 18-Sep-96	Sheladamus Cr. Sheladamus Cr.	94 D 001	9	5628	62116	2	49	E	Up	Ch Ch		Tributary coming in. Looking upstream.
A	6	20	400636600000000000000000000000000000000	JP KG	A49	TEC	18-Sep-96	Sheladamus Cr. Sheladamus Cr.	94 D 001	9	5628	62116	2	49	E	Dn	Ch		Looking downstream
A	6	22	400636600000000000000000000000000000000	JP KG	A49	TEC	18-Sep-96	Sheladamus Cr	94 D 001	9	5628	62116	2	49	E	Dii	Ch		10 m Falls - downstream from site A49.
A	6	15	400636600000000000000000000000000000000	JP KG	A50	TEC	18-Sep-96	Sheladamus Cr.	94 D 001	9	5645	62115	1	50	NE		Ch		Photo location on map.
A	6	23	400636600000000000000000000000000000000	JP KG	A50	TEC	18-Sep-96	Sheladamus Cr.	94 D 001	9	5645	62115	1	50	NE	Xs	Ch		Confluence at A50 site.
A	7	1	400636600000000000000000000000000000000	JP KG	A50	TEC	18-Sep-96	Sheladamus Cr.	94 D 001	9	5645	62115	1	50	NE	Bd	Ch		Looking at channel bottom.
A	7	2	400000000000000000000000000000000000000	JP KG	A51	TEC	18-Sep-96	Trib. to Skeena R.	94 D 001	9	5631	62140	2	51	S	Up	Ch	Jean	Ephemeral creek.
A	7	3	400000000000000000000000000000000000000	JP KG	A51	TEC	18-Sep-96	Trib. to Skeena R.	94 D 001	9	5631	62140	2	51	S	Bd	Ch		Ephemeral creek.
В	1	2	400000000000000000000000000000000000000	JP DD	B1	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5686	62004	2	1	Е	Up	Ch		Looking upstream.
В	1	3	400000000000000000000000000000000000000	JP DD	B1	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5686	62004	2	1	E	Dn	Ch	Б.	Looking downstream.
В	1	4	400000000000000000000000000000000000000	JP DD	B2	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5686	61997	2	2	E	Up	CI	Darrel	Looking upstream.
B B	1	5	40000000000000000000000000000000000000	JP DD JP DD	B2	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5686 5686	61997	2	2	E	Dn V-	Ch		Looking downstream.
B	1	7	400000000000000000000000000000000000000	JP DD JP DD	B2 B2	TEC	10-Sep-96 10-Sep-96	Trib. to Skeena R. Trib. to Skeena R.	93 M 091	9	5686	61997	2	2 2	E E	Xs Up	 	Darrel	Looking across at road crossing. 5 m falls.
В	1	8	400000000000000000000000000000000000000	JP DD	B3	TEC	10-Sep-96 10-Sep-96	Trib. to Skeena R.	93 M 091	9	5687	61997	1	3	E	Up	 	meterstick	Looking upstream.
В	1	9	400000000000000000000000000000000000000	JP DD	B3	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5687	61997	1	3	E	Dn	Ch		Looking downstream at culvert.
В	1	12	400000000000000000000000000000000000000	JP DD	B4	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5694	62000	1	4	E	Up	Ch		Looking upstream.
В	1	13	400000000000000000000000000000000000000	JP DD	B4	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5694	62000	1	4	Е	Dn	Ch		Looking downstream at confluence with Skeena.
В	1	14	400000000000000000000000000000000000000	JP DD	B4	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5694	62000	1	4	E	Xs	Ch		Small section of slumping banks.
В	1	15	400000000000000000000000000000000000000	JP DD	B4	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5694	62000	1	4	E	Up	Ch		8 m falls.
В	1	16	400000000000000000000000000000000000000	JP DD	B4	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5694	62000	1	4	E	Xs	Fi		Gravel fan at confluence with Skeena R.
В	1	17	400000000000000000000000000000000000000	JP DD	B5	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5680	62027	2	5	Е	Up	Ch		3 m falls in aerial photograph.
В	1	18	400000000000000000000000000000000000000	JP DD	B5	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5680	62027	2	5	E	Up	Ch		
В	1	19	400000000000000000000000000000000000000	JP DD	B5	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5680	62027	2	5	E	Up	Ch		Looking upstream through dense undergrowth.
В	1	20	400000000000000000000000000000000000000	JP DD	B5	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5680	62027	2	5	E	Dn	Ch		
В	1	21	400000000000000000000000000000000000000	JP DD	B5	TEC	10-Sep-96	Trib. to Skeena R.	93 M 091	9	5680	62027	2	5	E	Xs	CI		Road under construction at time of survey.
B B	1	23	40000000000000000000000000000000000000	JP DD JP DD	B6 B6	TEC	11-Sep-96 11-Sep-96	Trib. to Skeena R. Trib. to Skeena R.	93 M 091	9	5685 5685	62032 62032	1	6	E E	Up Dn	Ch Ch	реоріе	Chute in canyon. Looking downstream.
ь	1	24	+00000000000000000000000000000000000000	JF DD	ю	TEC	11-3cp-30	THU, IO SECTION.	73 IVI U71	7	2002	02032	1	U	E	Dii	CII		LOOKIII G GOWII SUCAIII.

Crew		Frame								UTM			Reach	Site		Photo	Photo		
Initial B	Roll	Number	Watershed Code 4000000000000000000000000000000000000	Survey Crew	Site #	Agency	Survey Date	Stream "Local"	Map # 93 M 091	Zone	Easting	Northing	Number	Number	Aspect	Direction	Type	Scale Item	Caption
B	2	25	400000000000000000000000000000000000000	JP DD JP DD	B6 B6	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5685 5685	62032	1	6	E E	Up	Ch Fi	Julie	Cascades. Rainbow trout in bag.
В	2	2	400000000000000000000000000000000000000	JP DD	B7	TEC	11-Sep-96 11-Sep-96	Trib. to Skeena R. Trib. to Skeena R.	93 M 091	9	5634	62032	3	7	E	Up	Ch		Upstream of site.
B	2	3	400000000000000000000000000000000000000	JP DD	B7	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5634	62035	3	7	E	Up	Ch		Aerial photo of falls.
B	2	4	400000000000000000000000000000000000000	JP DD	B7	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5634	62035	3	7	E	Up	Ch		Falls in aerial photo.
В	2	5	400000000000000000000000000000000000000	JP DD	B7	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5634	62035	3	7	E	Up	Ch	Jean	Looking upstream.
В	2	6	400000000000000000000000000000000000000	JP DD	B7	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5634	62035	3	7	E	Dn	Ch	helicopter	Looking downstream.
В	2	7	400000000000000000000000000000000000000	JP DD	В7	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5634	62035	3	7	E	Dn		0	Unstable section of left bank.
В	2	10	400000000000000000000000000000000000000	JP DD JP	B8	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5678	62045	1	8	E				
В	2	11	400000000000000000000000000000000000000	JP DD JP	B8	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5678	62045	1	8	E				
В	2	12	400000000000000000000000000000000000000	JP DD JP	B8	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5678	62045	1	8	E				
В	2	8	400000000000000000000000000000000000000	JP DD JP	B8	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5678	62045	1	8	E	Dn	Ch		Looking downstream.
В	2	9	400000000000000000000000000000000000000	JP DD JP	B8	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5678	62045	1	8	E	Up	Fi		Looking upstream, rainbow trout in bag.
B	2	13	400000000000000000000000000000000000000	JP DD JP DD	B9	TEC	11-Sep-96	Trib. to Skeena R.	93 M 091	9	5681 5689	62041	2	9	E E	**	Ch		r 1:
В	2	14 15	400000000000000000000000000000000000000	JP DD	B10 B10	TEC	11-Sep-96 11-Sep-96	Trib. to Skeena R. Trib to Skeena R	93 M 091	9	5689	61992	2	10	E	Up Dn	Ch		Looking upstream. Looking downstream.
B	2	16	400000000000000000000000000000000000000	JP DD	B11	TEC	12-Sep-96	Nancy Cr.	93 M 091	9	5693	61994	1	11	E	Dii	Fi		Fish captured by electrofishing
B	2	17	400000000000000000000000000000000000000	JP DD	B11	TEC	12-Sep-96	Nancy Cr	93 M 091	9	5693	61994	1	11	E	Un	Ch	Julie	Looking upstream.
В	2	18	400000000000000000000000000000000000000	JP DD	B11	TEC	12-Sep-96	Nancy Cr.	93 M 091	9	5693	61994	1	11	E	Dn	Ch	June	Looking downstream towards confluence with Skeena R.
В	2	19	400000000000000000000000000000000000000	JP DD	B12	TEC	12-Sep-96	Trib. to Skeena R.	93 M 091	9	5695	61990	1	12	E	Up	Ch	Darrel	Looking upstream.
В	2	20	400000000000000000000000000000000000000	JP DD	B12	TEC	12-Sep-96	Trib. to Skeena R.	93 M 091	9	5695	61990	1	12	E	Dn	Ch		Looking downstream.
В	2	21	4005903000000000000000000000000000000000	JP DD	B13	TEC	12-Sep-96	trib to Kuldo Cr.	93 M 081	9	5665	61910	2	13	S	Up	Ch		Falls from air.
В	2	22	4005903000000000000000000000000000000000	JP DD	B13	TEC	12-Sep-96	trib to Kuldo Cr.	93 M 081	9	5665	61910	2	13	S	Up	Ch		Falls from air.
В	2	23	4005903000000000000000000000000000000000	JP DD	B13	TEC	12-Sep-96	trib to Kuldo Cr.	93 M 081	9	5665	61910	2	13	S	Up	Ch	Todd	Looking upstream.
В	2	24	4005903000000000000000000000000000000000	JP DD	B13	TEC	12-Sep-96	trib to Kuldo Cr.	93 M 081	9	5665	61910	2	13	S	Dn	Ch		Looking downstream.
В	2	25	4005903000000000000000000000000000000000	JP DD	B14	TEC	12-Sep-96	Kuldo Cr.	93 M 081	9	5642	61921	2	14	SE	Xs	Ch	people	Looking across Kuldo Creek.
В	2	26	4005903000000000000000000000000000000000	JP DD	B14	TEC	12-Sep-96	Kuldo Cr.	93 M 081	9	5642	61921	2	14	SE	Dn	Ch		Looking upstream on Kuldo Creek.
B	2	27	4005903000000000000000000000000000000000	JP DD JP DD	B14 B15	TEC	12-Sep-96 12-Sep-96	Kuldo Cr. Trib to Skeena R	93 M 081	9	5642 5694	61921	2	14 15	SE W	Up	Fi Ch	Darrel	Dolly Varden in bag. Looking upstream.
В	3	1	400000000000000000000000000000000000000	JP DD	B15	TEC	12-Sep-96 12-Sep-96	Trib. to Skeena R.	93 M 081	9	5694	61899	1	15	W	Dn Dn	Ch	Todd	Looking downstream.
В	3	2	400000000000000000000000000000000000000	JP DD	B15	TEC	12-Sep-96	Trib. to Skeena R.	93 M 081	9	5694	61899	1	15	W	Dii	Fi	Todd	Looking downstream:
В	3	3	400000000000000000000000000000000000000	JP DD	B15	TEC	12-Sep-96	Trib. to Skeena R.	93 M 081	9	5694	61899	1	15	W		Fi		
В	3	4	400000000000000000000000000000000000000	JP DD	B16	TEC	12-Sep-96	Trib. to Skeena R.	93 M 081	9	5705	61098	2	16	SW	Up	Ch		Looking upstream.
В	3	5	400000000000000000000000000000000000000	JP DD	B16	TEC	12-Sep-96	Trib. to Skeena R.	93 M 081	9	5705	61098	2	16	SW	Dn	Ch		Looking downstream.
В	3	6	400000000000000000000000000000000000000	JP DD	B17	TEC	13-Sep-96	Trib. to Skeena R.	93 M 081	9	5689	61929	2	17	NW	Dn	Ch	meterstick	Meterstick across channel.
В	3	7	400000000000000000000000000000000000000	JP DD	B17	TEC	13-Sep-96	Trib. to Skeena R.	93 M 081	9	5689	61929	2	17	NW	Up	Ch		Channel ingrown with grasses.
В	3	8	400000000000000000000000000000000000000	JP DD	B17	TEC	13-Sep-96	Trib. to Skeena R.	93 M 081	9	5689	61929	2	17	NW			0	Looking downstream.
В	3	10	400000000000000000000000000000000000000	JP DD	B18	TEC	13-Sep-96	Trib. to Skeena R.	93 M 081	9	5689	61929	1	18	NE			Darrel	Looking upstream.
В	3	9	400000000000000000000000000000000000000	JP DD	B18	TEC	13-Sep-96	Trib. to Skeena R.	93 M 081	9	5689	61929	1	18	NE	Up	Ch		Water flowing over bedrock.
B	3	14	4800278000000000000000000000000000000000	JP DD	B20	TEC	13-Sep-96	Shedin Cr.	93 M 092 93 M 092	9	5805 5805	62007	0	20	S	Up	Ch	D. I	Shedin Creek
B	3	15 16	4800278000000000000000000000000000000000	JP DD JP DD	B20 B20	TEC	13-Sep-96 13-Sep-96	Shedin Cr. Shedin Cr.	93 M 092	9	5805	62007 62007	0	20 20	S	Dn Un	Ch Ch	Darrel Darrel	Log jam on side channel of Shedin Creek.
B	3	17	4800278000000000000000000000000000000000	JP DD	B21	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5804	62010	1	21	E	Up	Ch	Darrer	Looking upstream.
B	3	18	4800278000000000000000000000000000000000	JP DD	B21	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5804	62010	1	21	E	Dn	Ch		Looking downstream
В	3	19	4800278000000000000000000000000000000000	JP DD	B22	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5797	62069	0	22	S	Up	Ch		Falls downstream of site, aerial photo.
В	3	20	4800278000000000000000000000000000000000	JP DD	B22	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5797	62069	0	22	S	Up	Ch		Falls downstream of site, aerial photo.
В	3	21	4800278000000000000000000000000000000000	JP DD	B22	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5797	62069	0	22	S	Up	Ch	Darrel	Looking upstream at site.
В	3	22	4800278000000000000000000000000000000000	JP DD	B22	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5797	62069	0	22	S	Dn	Ch		Looking downstream at site.
В	3	25	4800278000000000000000000000000000000000	JP DD	B23	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5781	62055	1	23	S	Up	Ch	Darrel	Looking upstream.
В	4	1	4800278000000000000000000000000000000000	JP DD	B23	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5781	62055	1	23	S	Dn	Ch		Looking downstream.
В	4	2	4800278000000000000000000000000000000000	JP DD	B24	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092	9	5790	62009	2	24	SW	Up	Ch	Darrel	This stream is connected to Damsumlo Lake.
В	4	3	4800278000000000000000000000000000000000	JP DD	B24	TEC	13-Sep-96	trib to Shedin Cr.	93 M 092 93 M 092	9	5790	62009	2	24	SW	Dn	Ch	D. I	Lilypads in water.
B	4	4	4803000600000000000000000000000000000000	JP DD JP DD	B25 B25	TEC	14-Sep-96	trib to Damsulo L.	93 M 092 93 M 092	9	5788 5788	62030	1	25	SW SW	Dn	Ch	Darrel	Looking upstream.
A	3	18	4800278000000000000000000000000000000000	GM KG	B25 B27	TEC	14-Sep-96 14-Sep-96	trib to Damsulo L.	93 M 092	9	5791	62030	2	25 27	SW E	Up Up	Ch		Looking downstream. 2 logs across creek.
A	3	19	4800278000000000000000000000000000000000	GM KG	B27	TEC	14-Sep-96 14-Sep-96	trib to Shedin Cr.	93 M 092	9	5791	62032	2	27	E	Up	Ch	stump	Looking downstream.
A	3	20	4800278000000000000000000000000000000000	GM KG	B27	TEC	14-Sep-96	trib to Shedin Cr.	93 M 092	9	5791	62032	2	27	E	Up	Ch	жипр	Looking upstream, moss-covered log across channel.
A	3	21	4800278000000000000000000000000000000000	GM KG	B28	TEC	14-Sep-96	trib to Shedin Cr.	93 M 092	9	5791	62032	1	28	E	Bd	Ch		Grass and willows , fine substrate.
A	3	22	4800278000000000000000000000000000000000	GM KG	B28	TEC	14-Sep-96	trib to Shedin Cr.	93 M 092	9	5791	62032	1	28	E	Up	Ch	Guy M.	Very marginal rearing habitat.
В	4	6	4803000600000000000000000000000000000000	JP DD	B29	TEC	14-Sep-96	trib to Damsulo L.	93 M 092	9	5783	62024	1	29	SE	Up	Ch	camera case	Looking upstream.
В	4	7	4803000600000000000000000000000000000000	JP DD	B29	TEC	14-Sep-96	trib to Damsulo L.	93 M 092	9	5783	62024	11	29	SE	Dn	Ch	Ward	Looking downstream.
В	4	8	4803000600000000000000000000000000000000	JP DD	B30	TEC	14-Sep-96	trib to Damsulo L.	93 M 092	9	5772	620402	2	30	SE	Up	Ch		Step pool habitat, looking upstream.
В	4	9	4803000600000000000000000000000000000000	JP DD	B30	TEC	14-Sep-96	trib to Damsulo L.	93 M 092	9	5772	620402	2	30	SE	Dn	Ch	Ward	Looking downstream.
В	4	10	4803000600000000000000000000000000000000	JP DD	B31	TEC	14-Sep-96	trib to Shedin Cr.	94 D 002	9	5786	62065	2	31	SE	Up	Ch		Looking upstream.
В	4	11	4803000600000000000000000000000000000000	JP DD	B31	TEC	14-Sep-96	trib to Shedin Cr.	94 D 002	9	5786	62065	2	31	SE	Dn	Ch		Looking downstream.
В	4	12	4803000600000000000000000000000000000000	JP DD	B32	TEC	14-Sep-96	trbi to Shedin Cr.	93 M 092	9	5786	62065	1	32	E	Up	Ch		Looking upstream.
B	4	13 16	4803000600000000000000000000000000000000	JP DD JP DD	B32 B33	TEC TEC	14-Sep-96 14-Sep-96	trbi to Shedin Cr. Shedin Cr.	93 M 092 94 D 002	9	5786 5799	62065 62087	0	32 33	E S	Dn Up	Ch Ch	Darral	Looking downstream. Wide and shallow channel flowing from an alpine lake.
B	4	16	4803000600000000000000000000000000000000	JP DD	B33	TEC	14-Sep-96 14-Sep-96	Shedin Cr. Shedin Cr	94 D 002 94 D 002	9	5799	62087	0	33	S	∪p Dn	Ch	Darrel	Wide and shallow channel flowing from an alpine lake. Wide and shallow channel with falls downstream.
В	4	17	4803000600000000000000000000000000000000	JP DD	B33	TEC	14-Sep-96 14-Sep-96	snedin Cr. trib to Shedin Cr.	94 D 002	9	5799	62087	1	34	E	Up	Ch		Looking upstream.
В	4	19	4803000600000000000000000000000000000000	JP DD	B34	TEC	14-Sep-96	trib to Shedin Cr.	94 D 002	9	5799	62085	1	34	E	Dn	Ch	meterstick	Looking downstream.
В	4	20	4800278000000000000000000000000000000000	JP AL	B35	TEC	15-Sep-96	trib to Shedin Cr.	94 D 002	9	5804	62089	i	35	W	Up	Ch	Adam	Looking downsdeam.
В	4		4800278000000000000000000000000000000000	JP AL	B35	TEC	15-Sep-96	trib to Shedin Cr.	94 D 002	9	5804	62089	1	35	W	Dn	Ch		Looking downstream.
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Crew Initial	Roll	Frame Number	Watershed Code	Survey Crew	Site #	Agency	Survey Date	Stream "Local"	Man#	UTM Zone	Easting	Northing	Reach Number	Site Number	A	Photo Direction	Photo	Scale Item	Caption
B	4	22	4800278000000000000000000000000000000000	JP AL	B36	TEC	15-Sep-96	Shedin Cr.	94 D 002	Zone	5791	62100	0	36	Aspect SE	Up	Type Ch	Adam	Looking upstream.
В	4	23	4800278000000000000000000000000000000000	JP AL	B36	TEC	15-Sep-96 15-Sep-96	Shedin Cr.	94 D 002	9	5791	62100	0	36	SE SE	Up	Ch	Adam	Cascade in channel.
В	4	24	4800278000000000000000000000000000000000	JP AL	B37	TEC	15-Sep-96 15-Sep-96	trib to Shedin Cr.	94 D 002	9	5790	62100	2	37	SW	Up	Ch	meterstick	Looking unstream
B	5	24	40063625560000000000000000000000000000000	JP AL JP AL	B37			Tommy Jack Cr.	94 D 002	9	5813	62100	2	38	NE NE			meterstick	8 4
		1				TEC	15-Sep-96	. ,		9			2	50		Up	Ch		Looking upstream.
В	5	2	40063625560000000000000000000000000000000	JP AL	B38	TEC	15-Sep-96	Tommy Jack Cr.	94 D 002	9	5813	62114	2	38	NE	Dn	Ch		Looking downstream.
В	5	4	40063625560000000000000000000000000000000	JP AL	B39	TEC	15-Sep-96	Tommy Jack Cr.	94 D 002	9	5792	62126	2	39	NE	Up	Ch		Aerial view of falls located downstream of site.
В	5	6	40063625560000000000000000000000000000000	JP AL	B39	TEC	15-Sep-96	Tommy Jack Cr.	94 D 002	9	5792	62126	2	39	NE	Up	Ch	Adam	Looking upstream.
В	5	7	40063625560000000000000000000000000000000	JP AL	B39		15-Sep-96	Tommy Jack Cr.	94 D 002	9	5792	62126	2	39	NE	Dn	Ch		Looking downstream.
В	5	8	40063625560000000000000000000000000000000	JP AL	B40	TEC	15-Sep-96	Tommy Jack Cr.	94 D 002	9	5792	62126	2	40	NE	Up	Ch		Looking upstream.
В	5	9	40063625560000000000000000000000000000000	JP AL	B40	TEC	15-Sep-96	Tommy Jack Cr.	94 D 002	9	5792	62126	2	40	NE	Dn	Ch		Looking downstream.
В	5	12	480020000000000000000000000000000000000	JP DD	B41	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5811	61831	2	41	E	Up	Ch		Looking upstream.
В	5	13	480020000000000000000000000000000000000	JP DD	B41	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5811	61831	2	41	E	Dn	Ch	Darrel	Looking downstream.
В	5	14	480020000000000000000000000000000000000	JP DD	B41	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5811	61831	2	41	E	Up	Ch	notebook	Falls that serve as a barrier to fish passage.
В	5	15	48012900000000000000000000000000000000000	JP DD	B42	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5816	61829	1	42	E	Up	Ch		Looking upstream.
В	5	16	48012900000000000000000000000000000000000	JP DD	B42	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5816	61829	1	42	E	Dn	Ch	Darrel	Looking downstream.
В	5	17	48012900000000000000000000000000000000000	JP DD	B42	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5816	61829	1	42	E	Up	Ch		4 m falls that are a barrier to fish passage.
В	5	18a	48001290000000000000000000000000000000000	JP DD	B43	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5815	61829	2	43	S	Dn	Ch	meterstick	Looking down on a 10 m falls.
В	5	18b	48001290000000000000000000000000000000000	JP DD	B43	TEC	16-Sep-96	trib to Sam Greene Cr.	93 M 072	9	5815	61829	2	43	S	Up	Ch	helicopter	Looking upstream.
В	5	22	48001290000000000000000000000000000000000	JP DD	B44		16-Sep-96	Sam Greene Cr.	93 M 072	9	5771	61828	3	44	SE	Up	Ch	Darrel	Looking upstream.
В	5	23	48001290000000000000000000000000000000000	JP DD	B44		16-Sep-96	Sam Greene Cr.	93 M 072	9	5771	61828	3	44	SE	Dn	Ch		Looking downstream.
В	5	24	48001290000000000000000000000000000000000	JP DD	B44	TEC	16-Sep-96	Sam Greene Cr.	93 M 072	9	5771	61828	3	44	SE	Up	Ch		Falls downstream which are a barrier to fish passage.
В	6	1	48001290000000000000000000000000000000000	JP DD	B45	TEC	16-Sep-96	Sam Greene Cr.	93 M 072	9	5833	61776	1	45	SE	Up	Ch	Darrel	Dolly Varden captured in Sam Green Creek.
B	6	2	48001290000000000000000000000000000000000	JP DD	B45	TEC	16-Sep-96	Sam Greene Cr.	93 M 072	á	5833	61776	1	45	SE	Dn	Ch		Downstream view, note high potential for debris transport.
В	6	3	48001290000000000000000000000000000000000	JP DD	B45	TEC	16-Sep-96	Sam Greene Cr.	93 M 072	á	5833	61776	1	45	SE	-211	Fi		Dolly Varden captured by electrofishing.
В	6	4	400000000000000000000000000000000000000	JP DD	B46	TEC	16-Sep-96	trib to Skeena R.	93 M 072	0	5788	61770	1	46	E	Up	Ch	meterstick	Looking unstream
B	6	5	400000000000000000000000000000000000000	JP DD	B46			trib to Skeena R.	93 M 072	9	5788	61770	1	46	E	Dn	Ch	meterstick	Looking downstream.
		3					16-Sep-96			9			1			Dii	_		
В	6	/	400000000000000000000000000000000000000	JP DD	B47	TEC	16-Sep-96	trib to Skeeena R.	93 M 072	9	57608	617605	1	47	N	_	Ch		Aerial view of confluence with Skeena R.
В	6	10	480027811600000000000000000000000000000000000	JP DD	B48	TEC	16-Sep-96	Goathead Cr.	93 M 071	9	5952	61822	3	48	W	Dn	Ch	** **	Loking downstream.
В	6	9	480027811600000000000000000000000000000000000	JP DD	B48	TEC	16-Sep-96	Goathead Cr.	93 M 071	9	5952	61822	3	48	W	Up	Ch	Helicopter	Looking upstream.
В	6	11	480027811600000000000000000000000000000000000	JP DD	B49	TEC	17-Sep-96	trib to Shedin Cr.	93 M 072	9	5874	61782	1	49	E	Up	Ch		20 - 30 m falls from air.
В	6	12	480027811600000000000000000000000000000000000	JP DD	B49	TEC	17-Sep-96	trib to Shedin Cr.	93 M 072	9	5874	61782	1	49	E	Up	Ch		Falls from air.
В	6	13	480027811600000000000000000000000000000000000	JP DD	B49	TEC	17-Sep-96	trib to Shedin Cr.	93 M 072	9	5874	61782	1	49	E	Up	Ch		Looking upstream.
В	6	14	480027811600000000000000000000000000000000000	JP DD	B49		17-Sep-96	trib to Shedin Cr.	93 M 072	9	5874	61782	1	49	E	Dn	Ch	Darrel	Looking downstream.
В	6	15	480027811600000000000000000000000000000000000	JP DD	B49	TEC	17-Sep-96	trib to Shedin Cr.	93 M 072	9	5874	61782	1	49	E		Fi		Dolly Varden in bag.
В	6	16	480027811600000000000000000000000000000000000	JP DD	B50	TEC	17-Sep-96	trib to Shedin Cr.	93 M 073	9	5885	61846	1	50	SE		Ch		Dolly Varden in bag.
В	6	17	480027811600000000000000000000000000000000000	JP DD	B50	TEC	17-Sep-96	trib to Shedin Cr.	93 M 073	9	5885	61846	1	50	SE	Up	Ch		Dry channel near Shedin Creek.
В	6	20	480027811600000000000000000000000000000000000	JP DD	B50	TEC	17-Sep-96	trib to Shedin Cr.	93 M 073	9	5885	61846	1	50	SE	Up	Ch		Aerial photo of cascades.
В	6	19	480027811600000000000000000000000000000000000	JP DD	B51	TEC	17-Sep-96	trib to Shedin Cr.	93 M 073	9	5883	61897	2	51	N	Dn	Ch		Area appears to have contained standing water in the past.
В	6	18	480027811600000000000000000000000000000000000	JP DD	B51	TEC	17-Sep-96	trib to Shedin Cr.	93 M 073	9	5883	61897	2	51	N	Up	Ch		Channel only marginally defined.
В	6	21	400000000000000000000000000000000000000	JP DD	B58	TEC	17-Sep-96	trib to Skeena R.	93 M 071	9	5744	61772	1	58	SE	Up	Ch		Looking upstream at cascades and falls.
B	6	22	400000000000000000000000000000000000000	JP DD	B58	TEC	17-Sep-96	trib to Skeena R.	93 M 071	9	5744	61772	1	58	SE	Dn	Ch		Looking at confluence with Skeena R.
B	6	23	400000000000000000000000000000000000000	JP DD	B59	TEC	17-Sep-96	trib to Skeena R.	93 M 071	á	5729	61769	1	59	NW	Dn	Ch	Darrel	Looking downstream.
В	6	24	400000000000000000000000000000000000000	JP DD	B59	TEC	17-Sep-96	trib to Skeena R.	93 M 071	ó	5729	61769	l i	59	NW	Up	Ch	Darrer	Looking upstream.
B	6	25	400000000000000000000000000000000000000	JP DD	B59	TEC	17-Sep-96	trib to Skeena R.	93 M 071	ó	5729	61769	1	59	NW	ОР	Fi		Rainbow trout in bag.
B	6	26	400636000000000000000000000000000000000	JP DD	B60	TEC	17-3ep-96 18-Sep-96	Guish Cr.	94 D 001	9	5647	62111	1	6	E	Hn	Ch		Looking upstream.
B	7	20	400636000000000000000000000000000000000	JP DD	B60	TEC		Guish Cr.	94 D 001	9	5647	62111	1 1	6		Up	_	Darral	Cascades
B	7	2	400636000000000000000000000000000000000	JP DD	B60	TEC	18-Sep-96 18-Sep-96		94 D 001	9	5647	62111	1	6	E E	Up D-	Ch Ch	Darrel	
В	7	2 2a	400636000000000000000000000000000000000	JP DD JP DD	B60	TEC	18-Sep-96 18-Sep-96	Guish Cr. Guish Cr.	94 D 001 94 D 001	9	5647	62111	1	6	E	Dn	- Ch - Fi		Looking downstream. Rainbow trout.
	7	2a								9			1						
В	,	3	400636000000000000000000000000000000000	JP DD	B61	TEC	18-Sep-96	Guish Cr.	94 D 001	9	5632	62102	3	61	E	Up	Ch		Looking upstream.
В	7	4	400636000000000000000000000000000000000	JP DD	B61	TEC	18-Sep-96	Guish Cr.	94 D 001	9	5632	62102	3	61	E	Dn	Ch		Looking downstream.
В	7	5	400000000000000000000000000000000000000	JP DD	B62	TEC	18-Sep-96	trib to Skeena R.	94 D 001	9	5645	62094	3	62	S	Up	Ch		Channel overgrown with willow.
В	7	6	400000000000000000000000000000000000000	JP DD	B62	TEC	18-Sep-96	trib to Skeena R.	94 D 001	9	5645	62094	3	62	S	Dn	Ch		Channel overgrown with willow.
В	7	7	400000000000000000000000000000000000000	JP DD	B63	TEC	18-Sep-96	trib to Skeena R.	94 D 001	9	5642	60090	3	63	SE	Up	Ch		Looking upstream.
В	7	8	400000000000000000000000000000000000000	JP DD	B63	TEC	18-Sep-96	trib to Skeena R.	94 D 001	9	5642	60090	3	63	SE	Dn	Ch		Looking downstream.
В	7	10	4006294000000000000000000000000000000000	JP DD	B64	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5656	62074	2	64	E	Dn	Ch	Darrel	Looking downstream.
В	7	11	4006294000000000000000000000000000000000	JP DD	B64	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5656	62074	2	64	E	Dn	Ch		3 m cascade.
В	7	12	4006294000000000000000000000000000000000	JP DD	B64	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5656	62074	2	64	E	Up	Ch		Falls from aerial photo.
В	7	9	4006294000000000000000000000000000000000	JP DD	B64	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5656	62074	2	64	E	Up	Ch		Looking downstream.
В	7	13	4006294000000000000000000000000000000000	JP DD	B65	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5661	62075	1	65	E	Up	Ch		Looking upstream.
В	7	14	4006294000000000000000000000000000000000	JP DD	B65	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5661	62075	1	65	E	Dn	Ch		Looking downstream.
В	7	15	4006294000000000000000000000000000000000	JP DD	B65	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5661	62075	1	65	E		Fi		Rainbow trout captured by electrofishing.
В	7	16	4006294000000000000000000000000000000000	JP DD	B65	TEC	18-Sep-96	Willowflat Cr.	94 D 001	9	5661	62075	j	65	E	Up	Ch		Barrier to fish passage that is upstream of site.
B	7	17	400000000000000000000000000000000000000	JP DD	B66	TEC	18-Sep-96	trib to Skeena R.	94 D 001	9	5657	62084	⊢ i ⊢	66	E	Up	Ch		Looking upstream.
B	7	18	400000000000000000000000000000000000000	IP DD	B66	TEC	18-Sep-96	trib to Skeena R.	94 D 001	6	5657	62084	+ +	66	E	Up	Ch		Channel from air
В	7	19	400636600000000000000000000000000000000	JP DD	B67	TEC	18-Sep-96 18-Sep-96	Sheladamus Cr.	104 A 10	9	5567	62139	2	67	E	Up	Ch	Darrel	Looking upstream.
В	7	20	400636600000000000000000000000000000000	JP DD	B67	TEC	18-Sep-96	Sheladamus Cr.	104 A 10	7	5567	62139	2	67	E	Dn Dn	Ch	Danci	Looking downstream
D	/	20	400030000000000000000000000000000000000	Jr DD	D0/	TEC	19-9ch-30	Sileiadamus Ci.	104 A 10	y	3307	02139		0/	E	Dii	CII		LOOKING GOWIISHEAIII.

Appendix 4

Location	RB - Rainbow Hout, CH - Chinook Sa	Watershed	dir Winterisii, 571	Samionia,	Water	c Chuo, i K	Fork Length
(Watershed)	Creek	Code	UTM	Site	temp °C	Species	(mm)
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	DV	130
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	RB	65
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	RB	69
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	RB	80
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	RB	103
Guish Creek	Guish Creek	400-6360-000	9. 5647. 62111	B60	7.5	RB	120
Kuldo Creek	Kuldo Creek	400-5903-000	9. 5642. 61921	B14	11	СН	78
Kuldo Creek	Kuldo Creek	400-5903-000	9. 5642. 61921	B14	11	СН	80
Kuldo Creek	Kuldo Creek	400-5903-000	9. 5642. 61921	B14	11	DV	100
Kuldo Creek	Kuldo Creek	400-5903-000	9. 5642. 61921	B14	11	DV	120
Kuldo Creek	Kuldo Creek	400-5903-000	9. 5642. 61921	B14	11	DV	122
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61992	B10	10	DV	188
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	79
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	83
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	88
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	88
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	91
Nancy Creek	Nancy Creek	400-0000-000	9. 5689. 61994	B11	9	RB	96
Sam Green Creek	Sam Green Creek	480-0129-000	9. 5833. 61776	B45	7	DV	96
Sam Green Creek	Sam Green Creek	480-0129-000	9. 5833. 61776	B45	7	DV	128
Sam Green Creek	Sam Green Creek	480-0129-000	9. 5833. 61776	B45	7	DV	183
Sam Green Creek	Sam Green Creek	480-0129-000	9. 5833. 61776	B45	7	DV	210
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	40
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	43
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	45
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	45
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	55
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9.5910. 61834	A38	6	DV	65
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9.5910. 61834	A38	6	DV	65
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	75
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	75
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	85
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9.5910. 61834	A38	6	DV	99
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5910. 61834	A39	8	DV	100

Appendix 4

Location	NB - Railidow 110ut, CH - Cillilook Saili	Watershed	Winterion, 571	ounnomu,	Water	c chuo, i ic	Fork Length
(Watershed)	Creek	Code	UTM	Site	temp °C	Species	(mm)
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5885. 61846	B50	9	DV	35
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5885. 61846	B50	9	DV	50
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61854	A32	6	DV	75
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61854	A32	6	DV	75
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61854	A32	6	DV	75
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5885. 61846	B50	9	DV	77
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	80
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5885. 61846	B50	9	DV	99
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5885. 61846	B50	9	DV	104
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61854	A32	6	DV	105
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	108
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61854	A32	6	DV	132
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	135
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	150
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	188
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	210
Shedin Creek	Unnamed trib to Shedin Creek	480-0278-000	9. 5874. 61782	B49	7	DV	210
Sheladamus Creek	Sheladamus Creek	400-6366-000	9. 5645. 62115	A50	9	(SA)	57
Sheladamus Creek	Sheladamus Creek	400-6366-000	9. 5645. 62115	A50	9	MW	340
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9.5696. 620155	A9	8	(SA)	20
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 62000	B4	9.5	CH	57
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5705. 61964	A12	9	CT	154
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5712. 61778	A44	7	DV	64
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 61899	B15	9	DV	76
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	DV	76
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5712. 61778	A44	7	DV	79
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	DV	100
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	DV	105
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 62000	B4	9.5	DV	105
Skeena River	Unnamed trib to the Skenna River	400-0000-000	9. 5705. 61964	A12	9	DV	110
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	DV	120
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	DV	122
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	DV	155
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5695. 61990	B12	9	DV	188

Appendix 4

Location	RB - Rainbow Frout, CH - Chinook San	Watershed	Winterisii, 5A	Samonia,	Water	c Chub, i K	Fork Length
(Watershed)	Creek	Code	UTM	Site	temp °C	Species	(mm)
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5689. 61929	B18	10	LKC	80
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5689. 61929	B18	10	LKC	120
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 62000	B4	9.5	PK	400
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 62000	B4	9.5	PK	600
Skeena River	Unnamed trib to the Skenna River	400-0000-000	9. 5705. 61964	A12	9	RB	32
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5705. 61964	A12	9	RB	75
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	78
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	RB	79
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	80
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	RB	81
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	RB	81
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	85
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	RB	86
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5678. 62045	В8	10	RB	88
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5788. 61770	B46	9	RB	90
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	90
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 61899	B15	9	RB	92
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	RB	92
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5694. 61899	B15	9	RB	93
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	RB	95
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	RB	96
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	96
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5756. 61796	A41	8	RB	97
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	97
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5705. 61964	A12	9	RB	98
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5698. 61778	A46	8	RB	99
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	100
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5705. 61964	A12	9	RB	105
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	108
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	113
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5729. 61769	B59	8.5	RB	118
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	120
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5685. 62032	В6	9	RB	120
Skeena River	Unnamed trib to the Skeena River	400-0000-000	9. 5712. 61778	A44	7	RB	153

Appendix 4

Location	NB - Ramoow Hout, CH - Chinook Same	Watershed	,		Water		Fork Length
(Watershed)	Creek	Code	UTM	Site	temp °C	Species	(mm)
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9.5805. 62168	A24	7	(DV)	120
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9.5808. 62177	A23	6	(DV)	130
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	40
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	64
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	70
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	75
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	89
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5805. 62162	A26	7	DV	90
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 580 . 62168	A25	8	DV	92
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 580 . 62168	A25	8	DV	100
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	110
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 580 . 62168	A25	8	DV	114
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 580 . 62168	A25	8	DV	118
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	118
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	120
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	121
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	124
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	124
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	DV	124
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5802. 62149	A27	6	RB	80
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5805. 62162	A26	7	RB	90
Tommy Jack Creek	Unnamed trib to Tommy Jack Creek	400-6362-556	9. 5805. 62162	A26	7	RB	100
Willowflat Creek	Willowflat Creek	400-6294-000	9. 5661. 62075	B65	9	DV	120
Willowflat Creek	Willowflat Creek	400-6294-000	9. 5661. 62075	B65	9	DV	170
Willowflat Creek	Willowflat Creek	400-6294-000	9. 5661. 62075	B65	9	RB	60
Willowflat Creek	Willowflat Creek	400-6294-000	9. 5661. 62075	B65	9	RB	80