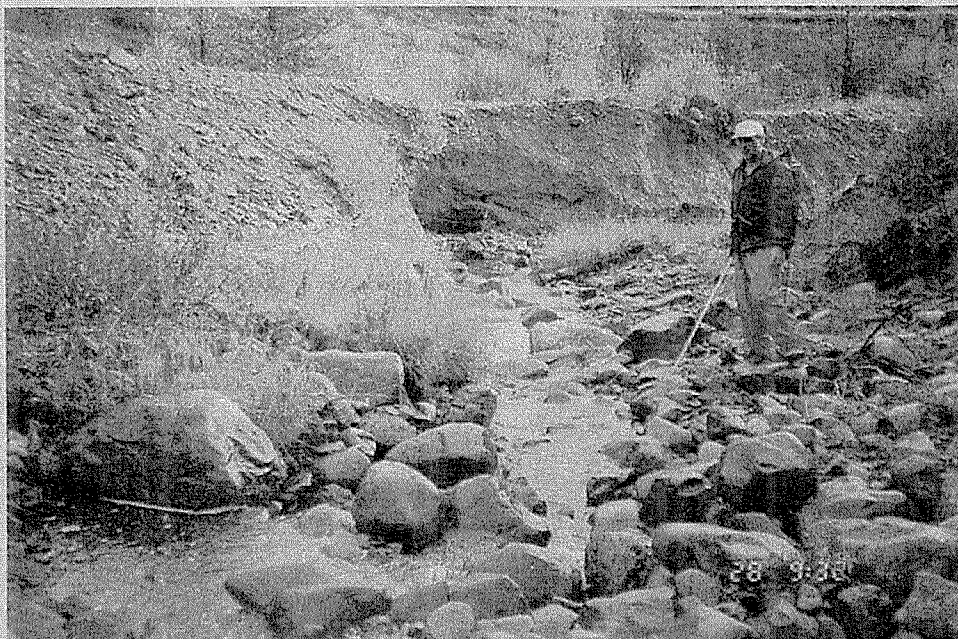


**Reconnaissance (1:20,000) Fish and Fish Habitat  
Inventory in the Cheslatta River Watershed**

**• Dog Creek**  
**(WSC 180-545300-76100)**



***FINS***  
***FISH INVENTORY SPECIALISTS***

November 1998

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FINS CONSULTING LTD  
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## Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in the Cheslatta River Watershed

• **Dog Creek**  
(WSC 180-545300-76100)

mq 102 163

Prepared for:  
**Babine Forest Products Co.**  
Box 4000  
Burns Lake, BC  
V0J 1E0

Prepared by:  
**FINS Consulting Ltd.**  
#215 - 4546 Park Avenue  
Terrace, BC  
V8G 1V4

### Project Reference Information

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Watershed Group</b>        | Cheslatta River                |
| <b>Parent Waterbody</b>       | Cheslatta River                |
| <b>Parent Waterbody Code</b>  | 180-545300                     |
| <b>FDIS Project WSC</b>       | 180-545300                     |
| <b>FDIS Project Number</b>    | 06-FRAN-0000-0004-1998         |
| <b>FRBC Project Number</b>    | IVBVS615                       |
| <b>MELP Project Number</b>    | 06-FRAN-3020-0002-1998         |
| <b>Forest District</b>        | Lakes Forest District          |
| <b>Forest Tenure Licensee</b> | Babine Forest Products Company |

November 1998

## Project Reference Information

|                                        |                                |
|----------------------------------------|--------------------------------|
| <b>Watershed Name</b>                  | Dog Creek                      |
| <b>Watershed Code (ILP)</b>            | 180-545300-76100 (72001)       |
| <b>UTM at Mouth</b>                    | 10.318750.5960610              |
| <b>NTS Maps</b>                        | 93 F/13                        |
| <b>TRIM Maps</b>                       | 93F.072, 93F.082               |
| <b>FRBC Region</b>                     | Smithers Region                |
| <b>MELP Region</b>                     | 06                             |
| <b>DFO Sub-District</b>                | 29-I                           |
| <b>Wildlife Management Unit</b>        | 6-4                            |
| <b>BGC Zone</b>                        | SBS                            |
| <b>Watershed Area</b>                  | 28 km <sup>2</sup>             |
| <b>Total of All Stream Lengths</b>     | 38 km                          |
| <b>Stream Order</b>                    | 3 <sup>rd</sup> order          |
| <b>Total Number of Reaches</b>         | 52                             |
| <b>Planned Discretionary Sites</b>     | 25                             |
| <b>Planned Discretionary Sites (%)</b> | 48%                            |
| <b>Surveyed Sites</b>                  | 10                             |
| <b>Surveyed Sites (%)</b>              | 19%                            |
| <b>Fish Species Present</b>            | RB, PCC                        |
| <b>Field Sampling Dates</b>            | September 5 - October 18, 1997 |

## Abbreviations Used in this Report

|       |                                                  |         |                                               |
|-------|--------------------------------------------------|---------|-----------------------------------------------|
| BGC   | biogeoclimatic zone                              | m       | meter                                         |
| C     | clear (not turbid)                               | mm      | millimeter                                    |
| C.    | creek                                            | M       | moderate flow or moderate turbid              |
| CAS   | prickly sculpin ( <i>Cottus asper</i> )          | MELP    | Ministry of Environment, Lands and Parks      |
| CD    | compact disc                                     | M/L     | mainline                                      |
| CO    | coho salmon ( <i>Oncorhynchus kisutch</i> )      | MT      | minnow trap                                   |
| Cond. | conductivity                                     | NA      | not applicable                                |
| CW    | channel width                                    | NFC     | no fish captured                              |
| DFO   | Department of Fisheries and Oceans               | NFP     | no fish present                               |
| Dist. | distance                                         | NS      | not sampled                                   |
| Dpth  | depth                                            | NTS     | National Topographic Survey                   |
| d/s   | downstream                                       | PCC     | peamouth chub ( <i>Mylocheilus caurinus</i> ) |
| EF    | electrofishing                                   | Prop    | proposed                                      |
| ESSF  | Engelman Spruce-Subalpine Fir BGC                | R.      | river                                         |
| FDIS  | Field Data Information System                    | RB      | rainbow trout ( <i>O. mykiss</i> )            |
| FISS  | Fisheries Information Summary System             | Rd      | road                                          |
| FPC   | Forest Practices Code                            | Rip     | riparian                                      |
| FRBC  | Forest Renewal of British Columbia               | sec     | seconds                                       |
| Grad  | slope gradient                                   | SBS     | Sub-Boreal Spruce BGC                         |
| H     | high flow                                        | SK      | sockeye salmon ( <i>O. nerka</i> )            |
| Hz    | Hertz                                            | S6 - S2 | riparian classes                              |
| ILP   | Interim Locational Point                         | T       | turbid                                        |
| Info. | information                                      | TRIM    | Terrain Resource Information Management       |
| km    | kilometer                                        | Turb    | turbidity                                     |
| L     | low flow or lightly turbid                       | u/s     | upstream                                      |
| L.    | lake                                             | UTM     | Universal Transverse Mercator coordinates     |
| LKC   | lake chub ( <i>Couesius plumbeus</i> )           | V       | volts                                         |
| LSU   | longnose sucker ( <i>Catostomus catostomus</i> ) | WSC     | watershed code                                |
| LWD   | Large Woody Debris                               | µs      | microseconds                                  |

## Contractor Information

|                                                                                                       |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Sub-contractor:</b>                                                                                | FINS Consulting Ltd.<br>#215 - 4546 Park Avenue, Terrace, BC, V8G 1V4<br>(250) 635-8481                                                       |
| <b>Field crew:</b><br><b>Data Entry by:</b><br><b>Report prepared by:</b><br><b>Report edited by:</b> | S. Redden, M. Jedrzejczyk, S. Bellehumeur, M. Janowicz<br>S. Redden, M. Jedrzejczyk<br>S. Redden, M. Jedrzejczyk<br>S. Redden, M. Jedrzejczyk |
| <b>Maps prepared by:</b>                                                                              | Cliff Manning Forestry Services<br>Lot 13, Burns Lake, B.C.<br>(250) 692-3459                                                                 |

## **Disclaimer**

This product has been accepted as being in accordance with approved standards within the limits of Ministry quality assurance procedures. Users are cautioned that interpreted information on this product developed for the purposes of the Forest Practices Code Act and Regulations, for example stream classifications, is subject to review by a statutory decision maker for the purposes of determining whether or not to approve an operational plan.

## **Acknowledgments**

Funding for this project was provided by Forest Renewal B.C. We would also like to give special thanks to those people who made this project possible, tolerable and even fun. Paul Giroux, who helped throughout the project and maintained the “common sense” approach, Lynn Miers, whose quick responses to our frequent requests still amaze us, the staff at Cliff Manning Forestry Services who always had maps ready for us, in addition to a helpful hint about “how to get there”, and most of all, Karen Grainger for, above all else, putting up with us throughout the field portion of the project.

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# 1. Introduction

This introduction is separated into two main sections. **Section 1.1** defines and discusses the overall project area covered under the scope of this contract. "Project Area" for the purposes of this report refers to the area encompassed by all watershed units. An explanation of how the entire project area was divided into 14 independent reports and a brief summary of the results will also be included in this section. **Section 1.2** introduces the specific watershed or watershed unit covered under the scope of this report. All references to the watershed will be made using the watershed (unit) name and not the term "project area".

## 1.1. Overview of the Project Area

The objective of this project was to conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in several watersheds in the Burns Lake area. The project area is located within four high level watershed groups, shown in Table 1 below, which are the ultimate parent watersheds of all streams within the project area.

**Table 1: Summary of Watershed Groups in Project Area**

| <b>Watershed Group</b> | <b>Watershed Code (WSC)</b> |
|------------------------|-----------------------------|
| Babine Lake (BABL)     | 480-000000                  |
| Francois Lake (FRAN)   | 180-374000-95200            |
| Cheslatta River (CHES) | 180-545300                  |
| Bulkley River (BULK)   | 460-000000                  |

### 1.1.1 Reporting Structure

In all, 14 reports have been completed. Twelve of these reports cover watershed units that are 4<sup>th</sup> order (or higher) except for the Dog Creek watershed which is 3<sup>rd</sup> order. Numerous smaller drainages that are independent of the above watersheds were placed into two separate reports based on their high level watershed group.

Site numbers have been assigned in an upstream ascending order for each major watershed so that there are two sets of site numbers: those in the Fraser River drainage (Sites 1-207) and those in the Skeena River drainage (Sites 1-179).

Table 2 on the following page highlights the specific drainage and site numbers covered by each report in relation to each watershed group. It should be noted that phases 1 to 3 have been completed for the Allin Creek and Maxan Creek watersheds, but due to time constraints the remaining phases were deferred until the 1998 season.

**Table 2: Summary of Reports Completed for 1997 Field Season**

| Major Watershed              | Watershed Group | Report Name (WSC)                                                                       | Sites                                 | Comments                                                                                                                                                                                             |
|------------------------------|-----------------|-----------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skeen<br/>a<br/>River</b> | <b>BABL</b>     | <b>"ILP 52001"</b><br>(480-857300)                                                      | 19-37                                 | Entire watershed                                                                                                                                                                                     |
|                              |                 | <b>"Deep Creek"</b><br>(480-886700)                                                     | 49-55                                 | Entire Deep Creek watershed                                                                                                                                                                          |
|                              |                 | <b>"Henrietta Creek"</b><br>(480-927700-23400)                                          | 82-147                                | Report covers Henrietta C. watershed u/s from confluence with Hannay L. outlet                                                                                                                       |
|                              |                 | <b>"Four Mile Creek"</b><br>(480-964000)                                                | 161-166                               | Entire Four Mile Creek watershed                                                                                                                                                                     |
|                              |                 | <b>"Telzato Creek"</b><br>(480-992900)                                                  | 175-179                               | Entire Telzato Creek watershed                                                                                                                                                                       |
|                              |                 | <b>"Small Drainages within the Babine Lake Watershed"</b><br>(480-*****)                | 1-18, 38- 48, 56-81, 148-160, 167-174 | Report covers Finch C. watershed, 15 small tributaries to the north side of Babine L., 12 small tributaries to the south side of Babine L., and 6 small tributaries to the south side of Taltapin L. |
| <b>Fraser<br/>River</b>      | <b>CHES</b>     | <b>"Ootsanee Creek"</b><br>(180-545300-45700)                                           | 1-42                                  | Entire Ootsanee Creek watershed                                                                                                                                                                      |
|                              |                 | <b>"Dog Creek"</b><br>(180-545300-76100)                                                | 43-52                                 | Entire Dog Creek watershed                                                                                                                                                                           |
|                              | <b>FRAN</b>     | <b>"Uncha Creek"</b><br>(180-374000-95200-41400)                                        | 53-101                                | Report covers Uncha C. watershed u/s from Uncha L., 3 small tributaries to Uncha L. and one tributary to Takysie L.                                                                                  |
|                              |                 | <b>"Eagle Creek"</b><br>(180-374000-95200-019-7890)                                     | 117-129                               | Entire Eagle Creek watershed                                                                                                                                                                         |
|                              |                 | <b>"Decker Creek"</b><br>(180-374000-95200-01900-8460)                                  | 135-148                               | Entire Decker Creek watershed                                                                                                                                                                        |
|                              |                 | <b>"Gerow Creek"</b><br>(180-374000-95200-01900-8700)                                   | 150-187                               | Entire Gerow Creek watershed                                                                                                                                                                         |
|                              |                 | <b>"Forgie Creek"</b><br>(180-374000-95200-01900-9100)                                  | 190-206                               | Entire Forgie Creek watershed                                                                                                                                                                        |
|                              |                 | <b>"Small Drainages within the Francois Lake Watershed"</b><br>(180-374000-95200-*****) | 102-116, 131-134, 149, 188, 189, 207  | Report covers 4 small tributaries to Francois L. and 8 small tributaries to Burns L., Decker L. and the Upper Endako R.                                                                              |

Table 3 below presents an overview of reach sampling statistics for each report within the project area. Sample sizes within the Deep Creek, Four Mile, Telzato and Eagle Creek watersheds were low due to obstructions to fish in their lower reaches which precluded fish presence, and therefore sampling, in their upper watersheds.

**Table 3: Reach Sampling Summary by Report**

| Report Name                                      | Total Reaches | # of sites | % of Total |
|--------------------------------------------------|---------------|------------|------------|
| Small Drainages within the Babine Lake Watershed | 405           | 76         | 19         |
| ILP 52001                                        | 71            | 19         | 27         |
| Deep Creek                                       | 74            | 7          | 9          |
| Henrietta Creek                                  | 261           | 66         | 25         |
| Four Mile Creek                                  | 160           | 6          | 4          |
| Telzato Creek                                    | 54            | 5          | 9          |
| Ootsanee Creek                                   | 174           | 42         | 24         |
| Dog Creek                                        | 52            | 10         | 19         |
| Uncha Creek                                      | 231           | 49         | 21         |
| Small Drainages within the Francois Watershed    | 160           | 23         | 14         |
| Eagle Creek                                      | 133           | 13         | 10         |
| Decker Creek                                     | 77            | 14         | 18         |
| Gerow Creek                                      | 177           | 38         | 21         |
| Forgie Creek                                     | 66            | 17         | 26         |
| <b>TOTAL</b>                                     | <b>2095</b>   | <b>385</b> | <b>18</b>  |

### 1.1.2 FDIS Database Summary

Four project watershed codes were assigned by MELP for use in this project. They were for the Maxan (460-924300), Cheslatta (180-545300), Francois (180-374000-95200) and Babine Lake (480-000000) watersheds. One FDIS database was created with the above four Project WSC's.

The database contains information for the entire project area. In all, the database contains 2951 reaches, 519 reach cards and 385 site cards. There are 150 reach cards completed for the Maxan and Allin Creek watersheds, but since field sampling of these watersheds was deferred until the 1998 season, there are no associated site cards for these systems. All fish cards are within one database (253 cards).

Table 4 on the following page summarizes the information contained with the FDIS database.

**Table 4: FDIS Database Contents**

| <b>Entire Project Area</b>                                                      |      |
|---------------------------------------------------------------------------------|------|
| Number of Reach Table Records                                                   | 2951 |
| Number of Reach Card Records                                                    | 519  |
| Number of Site Card Records                                                     | 385  |
| Number of Lake Table Records                                                    | 171  |
| Number of Lake Form Records (Pre-field)                                         | 10   |
| Number of Photo Records                                                         | 637  |
| <b>Surveyed Watersheds</b>                                                      |      |
| Number of Reaches within surveyed watersheds                                    | 2095 |
| Number of Reach Cards within surveyed watersheds                                | 369  |
| Number of Reaches Surveyed                                                      | 369  |
| <b>Postponed Watersheds</b>                                                     |      |
| Sample Reaches postponed to 1998 Field Season within Maxan and Allin Watersheds | 150  |
| Number of Reaches within Maxan C. watershed                                     | 571  |
| Number of Reach Cards for Maxan C. watershed                                    | 86   |
| Number of Reaches within Allin C. watershed                                     | 281  |
| Number of Reach Cards for Allin C. watershed                                    | 64   |
| <b>Fish Collection Card Database</b>                                            |      |
| Total Number of Fish Cards in "fcoll.mdb" database                              | 253  |

### 1.1.3 Lake Approach

As required by Reconnaissance Fish and Fish Habitat Inventories, all lakes within the project area were included in phases 1 to 3. However, field sampling of lakes was not included under the scope of this project and was deferred to future inventories. In all, 171 lakes have been entered into the FDIS Lake Table. Of these, 99 have been classified as lakes (32 primary; 67 secondary) while 72 have been categorized into wetland reaches (36 type 1; 3 type 3; 9 type 4 and 24 type 5). Most lakes were excluded from future field sampling on the basis of very small size, planned stream sampling of inlets and outlets and/or location in the watershed above steep gradients/ obstructions. Initially, 10 lakes had been chosen for sampling but because lake field sampling would not take place in the 1997 field season, this number was further reduced to 2 by using results from the 1997 stream survey. The two lakes chosen for field sampling for the 1998 field season were ILP 83006 reach 4 and Maxan Creek reach 14. Further information on all lakes and wetlands within the project area is available in the Lake Table in the FDIS database, while justification for exclusion from field sampling is summarized in spreadsheet format in Appendix VI.

## **1.1.4 Methodology**

### ***1.1.4.1 Reach Sampling***

Methodology used throughout this project were consistent with the standards and methods as defined in "Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (May 1997)". Due to time constraints, not all reaches were sampled as identified in the Project Plan. Immediately prior to field sampling, individual areas were prioritized for sampling by Babine Forest Products Co. and reaches were systematically sampled according to their priority level. Sampling in both the Maxan Creek (Project WSC 460-924300) and Allin Creek watersheds (Project WSC 180-374000-95200) was rescheduled for the 1998 field season. Sampling in the Taltapin, Decker-Stearns and Palling sub-units was undertaken, although these areas had not been included in the project plan. Phases 1 to 3 had been completed for these areas prior to field sampling, consistent with the methods used for all watersheds.

### ***1.1.4.2 ILP Referencing***

ILP maps and tables have been sent to MELP in Victoria but watershed codes have not yet been received (Nov. 30, 1998). Although several streams within the project area had existing 37-digit watershed codes, the new 45-digit codes were not available. All streams in the project area were consequently assigned ILP's whether they were coded or not. As such, our databases, reports and maps use ILP's as stream references, although a cross reference table for all coded streams has been included in Section 1.2.

In addition, all 5-digit ILP numbers assigned are unique within the entire project area - there are no two alike. This was done to avoid confusion in ILP referencing throughout the project and having to reference the ILP map number each time the ILP is referenced. Every ILP created uses the last two digits of its ILP map, combined with its number on the map. That is, the first ILP on TRIM mapsheet 93K.052 would be ILP 52001. There was no overlap of mapsheet numbers among the different TRIM map series (i.e. 93F. vs. 93K vs. 93 L series). Relevant TRIM maps for each report are listed in the Project Reference Information of the reports.

#### **1.1.4.3 FPC Field Data Interpretation (NFC vs. NFP vs. NS vs. NVC)**

Specific terminology has been used throughout this report regarding fish sampling results (or lack thereof) in a specific reach and the associated interpretation of these results for the purposes of FPC stream classification. The terminology has inherent ramifications for the data interpretation process, specifically for the fish-bearing status of sampled reaches. This terminology is explained below and will aid in understanding classification of reaches as fish-bearing, non-fish-bearing or designated for follow-up sampling. All reaches and their fish-bearing status codes are presented in Table 6 in Section 2.1, while only non fish-bearing reaches and reaches designated for follow-up sampling are discussed in the fish-bearing status section of this report. Note that for the following sections,

- Confirmed fish-bearing reaches are summarized with all reaches in Table 6 only
- Non fish-bearing reaches are further discussed in Section 2.4.1 and are summarized in Table 7
- Reaches designated for follow-up sampling are further discussed in Section 2.4.2 and are summarized in Table 8

##### **1.1.4.3.1 Fish Captured**

- Fish sampling conducted, fish captured
- Fish presence confirmed
- Fish-bearing FPC Classification assigned for these reaches.
- Table 6 only

##### **1.1.4.3.2 NFC (No Fish Captured)**

###### Scenario 1

- Fish sampling conducted, no fish captured
- Fish presence confirmed in upstream reaches
- Fish presence inferred
- Fish-bearing FPC Classification assigned for this reach.
- Table 6 only

###### Scenario 2

- Fish sampling conducted, no fish captured
- Fish habitat present and easily accessible to fish from downstream fish-bearing reaches, fish presence not confirmed in upstream reaches
- Fish presence inferred
- Fish-bearing FPC Classification assigned for this reach.
- Table 6 and Table 8.

#### **1.1.4.3.3 NFP (No Fish Present)**

- Fish sampling conducted, no fish captured
- No accessible habitat (due to obstruction, lack of sufficient flow, habitat, etc.)
- Fish absence confirmed
- Non fish-bearing FPC Classification assigned for this reach.
- Table 6 and Table 7.

#### **1.1.4.3.4 NS (Not Sampled)**

##### Scenario 1

- Fish sampling not conducted
- Habitat available and easily accessible to fish but channel not accessible to sample (i.e. deep wetland reaches, canyons)
- Fish presence inferred
- Fish-bearing FPC Classification assigned for this reach
- Table 6 and Table 8

##### Scenario 2

- Fish sampling not conducted
- Channel dry but potential fish habitat available and accessible to fish from downstream fish-bearing reaches at higher flow conditions
- Fish presence inferred
- Fish-bearing FPC Classification assigned for this reach
- Table 6 and Table 8

##### Scenario 3

- Fish sampling not conducted
- No existing fish habitat at any flow conditions (i.e. very steep)
- Non fish-bearing FPC Classification assigned for this reach
- Table 6 and Table 7

#### **1.1.4.3.5 NVC (No Visible Channel)**

There were generally two types of situations in which site assessment in the field revealed no visible channel. They include reaches where no channel was present (or not a stream by FPC definition) or wetland-type reaches where there was no defined channel present, just wet, spongy ground where flow was generally percolating through the ground. These different types of NVC reaches were noted in the comments on the site cards and are included in Table 6. It is expected that NVC channels would receive a “Non Classified Drainage (NCD) FPC classification.

#### **1.1.4.4      *Report Photographs***

In addition to photo documentation requirements, all photos taken for each report have been included in Appendix II as thumbnail photos. All photos are indexed and include all essential reference information (ILP, reach, site, view, time, roll, frame, CD and image #). Table 6 (Summary of Surveyed Reaches) in Section 2.1 references the corresponding thumbnail photos for each sampled reach.

#### **1.1.4.5      *Field Equipment***

The following is a list of field equipment used throughout reach sampling.

- 2 Smith-Root model 12B P.O.W. Backpack Electrofishers
- 50 Gee-type minnow traps
- 2 Hanna pHep 3 waterproof pH meters
- 2 Hanna DIST WP 3 conductivity meters
- 2 Suunto clinometers, alcohol thermometers, Silva compasses
- 2 Pentax Zoom 90WR cameras
- assorted other equipment including tight chains, hip chains, stop nets, dip nets, fishing rods, magnifying lenses
- 2 4X4 trucks equipped with Level 1 First Aid kits and 4 personal First Aid kits, as per WCB requirements
- 50 HP jet boat

#### **1.1.5    *Logistics***

The major problem encountered throughout the course of the sampling that was common to all drainages within the project area throughout the survey was the effect of extreme low water levels on sampling effectiveness. This was especially prominent in direct tributaries to Babine Lake where access for fish to these streams from the lake was further exacerbated by very low Babine Lake levels. Dry channels and very low water levels often precluded effective fish sampling. In these situations, fish presence and habitat information at each site was assessed based on the presence of fish habitat and its accessibility from downstream fish-bearing reaches at high flow conditions. Sampling results in the Henrietta watershed were often inconclusive due to cold water temperatures and the lateness of season. Fish and fish habitat assessments were again assessed in the above-mentioned manner.



## 1.2. Overview of the Dog Creek Watershed

### 1.2.1 Location/Access

The Dog Creek watershed is located south of Burns Lake and flows into the left bank of the Cheslatta River above Cheslatta Lake, right below Cheslatta Falls. Access to the mouth of Dog Creek is as follows:

- From Burns Lake, drive south for 19km on Francois Lake Highway to the Ferry at Francois Lake
- Cross the lake on the ferry, then drive south on Keefe's Landing road immediately after disembarking from the ferry
- Stay on this road for approximately 30km (passing Takysie Lake on the way) until you come to a "T" in the road at Cheslatta Road
- Turn left down Cheslatta road and drive approximately 10km
- Turn right off of Cheslatta road at the sign for Cheslatta Falls - Dog Creek is approximately 150m down this road at the falls.

Access to reaches within the watershed is mainly by spur roads off of the Cheslatta road and/or by foot.

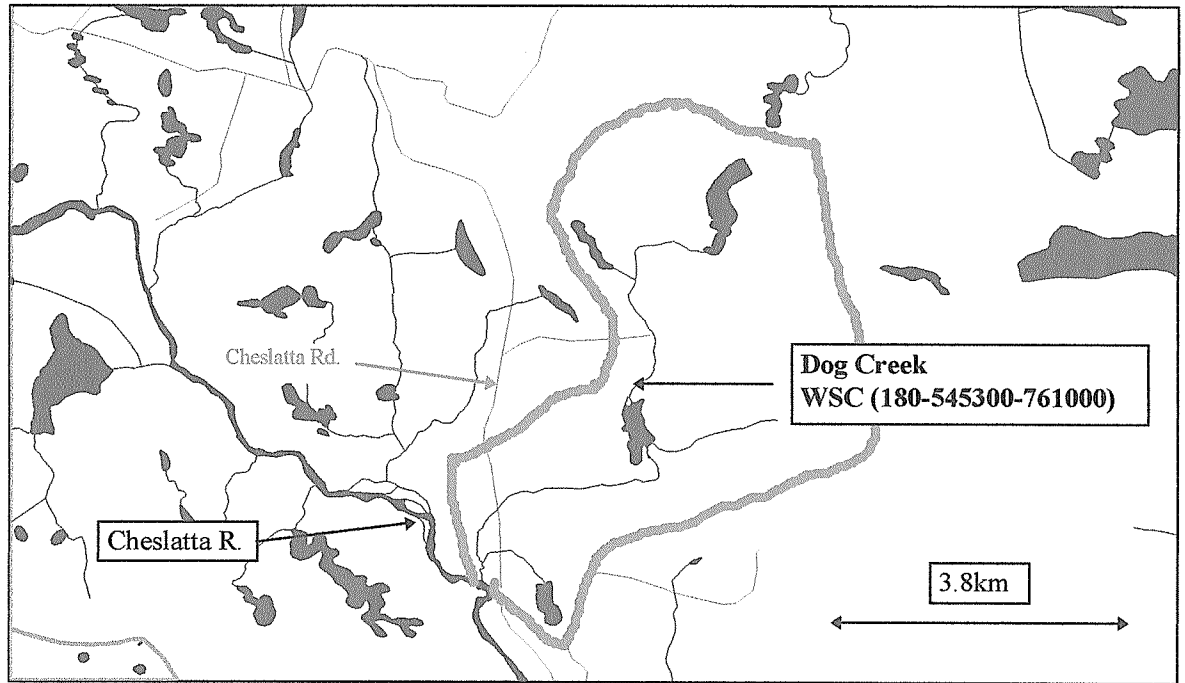
The three maps on the following page identify the Dog Creek watershed in relation to the local area stream network, the location of the watershed within its high level watershed group and the location of the entire project area within the province of British Columbia.

### 1.2.2 Existing Watershed Codes

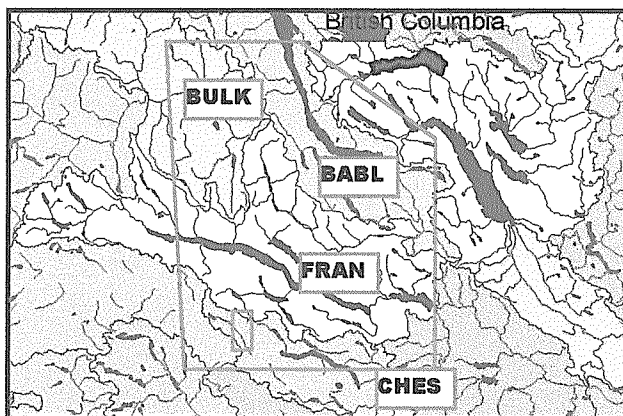
At the time of ILP generation, no new watershed codes were available for this system. As such, all streams were assigned ILP's for all phases of this project. References to all streams are therefore made using ILP's in the databases, photodocumentation, maps, and in this report. However, Table 5 below provides a cross-reference for all streams that had watershed codes (coded ILP's) at the time this report was produced. Note that this table includes all ILP's with watershed codes within the entire watershed and not only sampled ILP's. All streams with gazetted names or aliases will be referred to by those names in this report while all unnamed streams will be referred to by their ILP number, for ease of presentation.

**Table 5: ILP/Watershed Code Cross Reference Table**

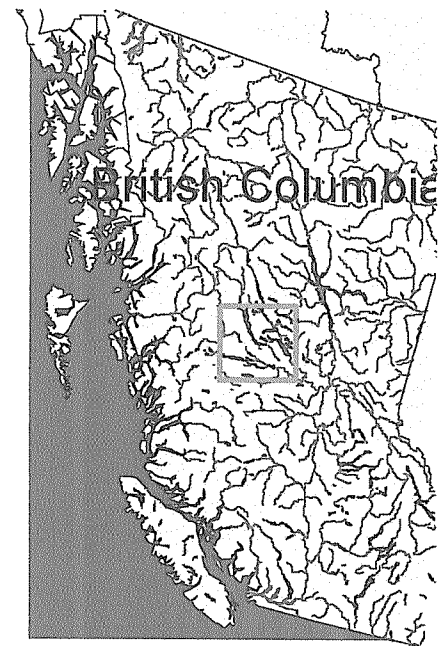
| ILP # | Gazetted Name | Watershed Code         |
|-------|---------------|------------------------|
| 72001 | Dog Creek     | 180-545300-76100       |
| 72002 | None          | 180-545300-76100-03100 |
| 72006 | None          | 180-545300-76100-42100 |



**Figure 1: Dog Creek Watershed**



**Figure 2: Location of Dog Creek Watershed within CHES watershed group**



**Figure 3: Location of Project Area within B.C.**

## 2. Results and Discussion

### 2.1 Sampling Summary

Based on map and aerial photo interpretation, 52 reaches were identified within the Dog Creek watershed. Although 25 of these reaches (48%) were chosen for sampling during the planning phase of this project, a total of 10 sites were sampled (19%). The number of reaches sampled was lower than planned due to the lack of fish in the upper watershed and because of the lack of defined channels in several tributaries which precluded sampling of their upper reaches.

Table 6 on the following page summarizes all surveyed reaches, providing identification and location of each reach within the watershed, in addition to general channel characteristics and fish sampling results at each site. It should be noted that:

1. The **Dist. From Mouth** column refers to the location of the lower boundary of the surveyed reach and not the location of the sample site. Sample site locations are indicated on the attached maps.
2. The **Fish Info.** column indicates fish sampling results with four possible scenarios:
  - fish captured: species listed
  - no fish captured, fish presence inferred: NFC- inferred species listed
  - no fish captured, no fish present: NFP
  - fish sampling not conducted: NS
3. The **Channel** column indicates:
  - Grad.: average stream gradient at the site (in %)
  - CW: average stream channel width at the site (in m)
  - Dpth.: average residual pool depth at the site (in m)

The **Prop. Rip. Class** column indicates the expected FPC classification of this reach, based on fish sampling results, channel characteristics and interpretation of the field data. The red classifications indicate confirmed fish presence while the blue indicates fish absence (either NFP code or NS with no available fish habitat). The highlighted codes in parentheses indicate that fish presence has been inferred (either NFC code or NS with available fish habitat). These reaches have been designated for follow-up sampling. Further information on the fish-bearing status of surveyed reaches is presented in Section 2.4.

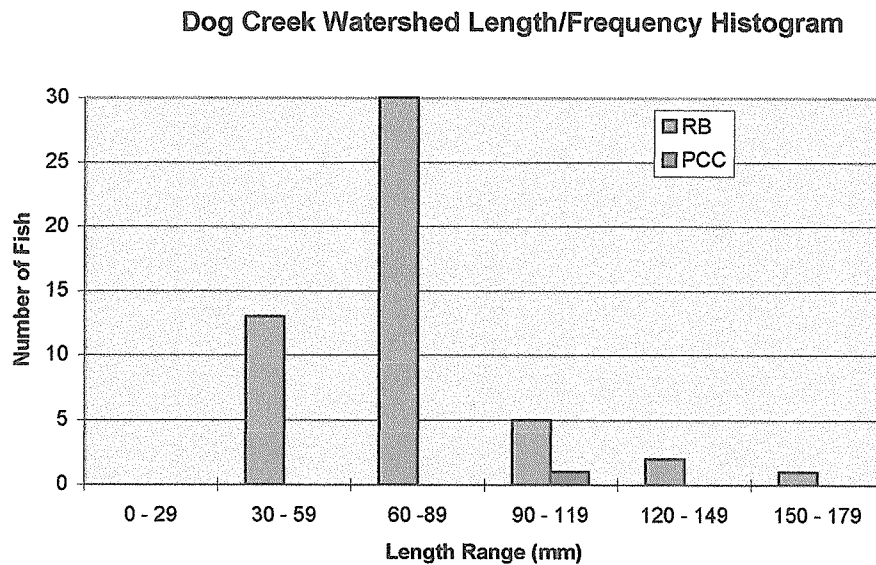
**Table 6: Summary of all Surveyed Reaches in the Dog Creek Watershed**

| Site # | Stream Name | ILP # | Reach | Dist. From Mouth (km) | Corresponding Thumbnail Photos in Appendix II | Parent Waterbody and Stream Location                                                   | Fish Info. | Channel  |        |          |                 |
|--------|-------------|-------|-------|-----------------------|-----------------------------------------------|----------------------------------------------------------------------------------------|------------|----------|--------|----------|-----------------|
|        |             |       |       |                       |                                               |                                                                                        |            | Grad (%) | CW (m) | Dpth (m) | Prop Rip. Class |
| 43     | Dog Creek   | 72001 | 1     | 0                     | 1-3                                           | Cheslatta River                                                                        | RB         | 6.3      | 4.2    | 0.3      | S3              |
| 44     | Dog Creek   | 72001 | 2     | 0.6                   | 4-5                                           | Cheslatta River                                                                        | RB         | 2.9      | 1.7    | 0.4      | S3              |
| 45     | Dog Creek   | 72001 | 3     | 1.03                  | 6-7                                           | Cheslatta River                                                                        | RB         | 2.8      | 1.9    | 0.2      | S3              |
| 46     | Dog Creek   | 72001 | 7     | 4.37                  | 8-9                                           | Cheslatta River                                                                        | NFC-RB     | 1.0      | 1.2    | 0.2      | (S4)            |
| 47     | Dog Creek   | 72001 | 10    | 6.43                  | 10-11                                         | Cheslatta River                                                                        | PCC        | 3.7      | 1.4    | 0.3      | (S4)            |
| 48     | Unnamed     | 72002 | 1     | 0                     | 12                                            | Dog Creek Reach 1: left bank tributary at 0.18 km                                      | NS         | 3.2      | 0.4    | 0.0      | S6              |
| 49     | Unnamed     | 72002 | 4     | 1.15                  | None                                          | NO VISIBLE CHANNEL - no defined channel present.                                       |            |          |        |          |                 |
| 50     | Unnamed     | 72004 | 1     | 0                     | None                                          | NO VISIBLE CHANNEL - was mapped as left bank tributary to Dog Creek reach 5 at 3.34km. |            |          |        |          |                 |
| 51     | Unnamed     | 72006 | 1     | 0                     | 13                                            | Dog Creek Reach 6: left bank tributary at 3.83 km                                      | NFP        | 3.8      | 0.1    | 0.0      | S6              |
| 52     | Unnamed     | 82049 | 2     | 1.22                  | None                                          | NO VISIBLE CHANNEL - was mapped as right bank tributary to Dog Creek reach 9 at 6.4km. |            |          |        |          |                 |

## 2.2 Fish Species

Rainbow trout and peamouth chub were the only species encountered within the Dog Creek watershed during this inventory. All captured fish appeared healthy and did not exhibit any external signs of disease.

Figure 4 below provides general information on frequency of occurrence of fish within different length classes for the Dog Creek watershed for all fish captured during this inventory. Due to the limited scope of this project, this information should only be used to suggest the length distribution of the population within this system.



**Figure 4: Length/Frequency Histogram of Fish in the Dog Creek Watershed**

## 2.3 Fish Distribution

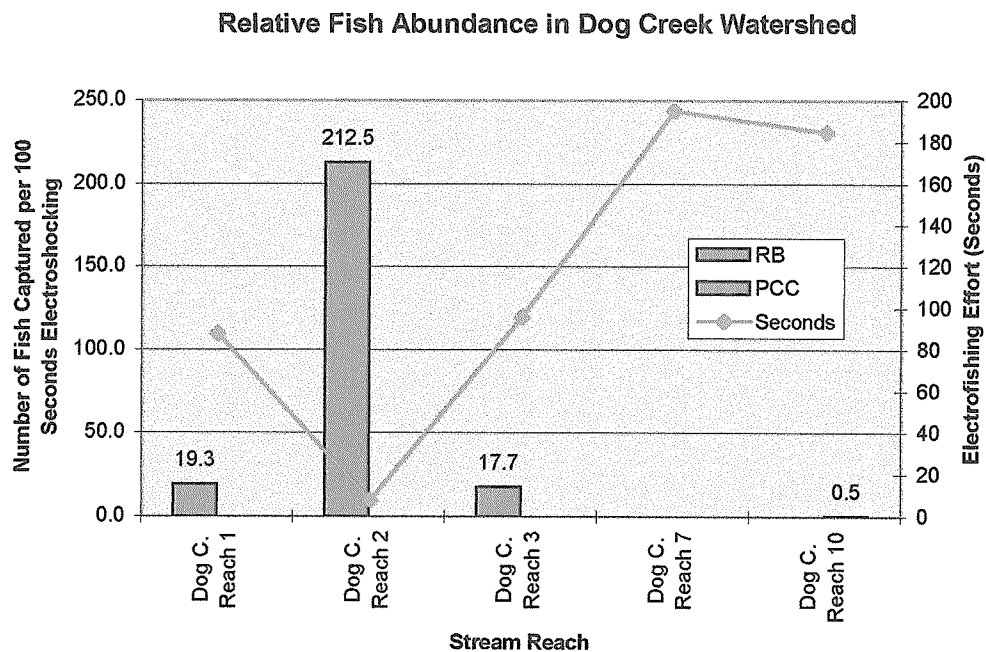
### 2.3.1 Obstructions

No definitive obstructions to fish migration were found in the Dog Creek system. However, numerous wetlands and beaver impoundments are present upstream from reach 4 of Dog Creek which likely impede fish passage into the upper watershed.

### 2.3.2 Fish Use

Fish use in the Dog Creek watershed is limited to the mainstem of Dog Creek. Rainbow trout were abundant and were the only species captured in the first three reaches. They were not found in any other surveyed reaches upstream from reach 3. Peamouth chub was the only other species encountered in this watershed , and they were found only in reach 10.

Figure 5 below summarizes the relative fish abundance for all confirmed and inferred fish-bearing reaches within the Dog Creek watershed. Inferred fish-bearing reaches have been included in this figure to provide an indication of levels of effort expended sampling for fish in each reach.



**Figure 5: Relative Fish Abundance in Fish-Bearing Reaches in the Dog Creek Watershed**

### **2.3.3 Fish Habitat**

The only surveyed reaches that provided fish habitat were those of the Dog Creek mainstem. None of the surveyed tributaries in the entire watershed provide any fish habitat. The best observed rearing habitat for rainbow trout was in reaches 1, 2 and 3 of Dog Creek. Reaches adjacent to the first lake in the system (Reach 6, Waterbody ID 00249CHES) are wetland type reaches with numerous beaver dams and likely mark the upper distribution limit for rainbow trout. No rainbow trout were encountered upstream from this lake. Reaches below the lake are most likely used by resident rainbow trout, in addition to juvenile rainbow trout from Cheslatta River. Spawning habitat for rainbow trout is best in reaches 1 and 3 where abundant uniform gravels were present. Flow in this part of the watershed is perennial and stabilized by upstream wetlands. Most overwintering by rainbow trout likely occurs in the Cheslatta River although some overwintering habitat is available in reaches 2 and 3.

The numerous wetland reaches in the system above reach 6 provide excellent rearing, spawning and overwintering habitat for peamouth chub.

## **2.4 Fish Bearing Status**

The following sections present information on the fish-bearing status of sampled reaches. The first section provides justification for non fish-bearing reaches within the Dog Creek watershed. The second section identifies and prioritizes reaches where follow-up sampling should be conducted (inferred fish-bearing reaches). Confirmed fish-bearing reaches have not been included in this section but are included in Table 6. Please refer to the definitions provided in section 1.1.4.3 regarding methodology and interpretation of data.

### **2.4.1 Non-Fish Bearing Reaches**

Table 7 summarizes all reaches that have been assigned a non fish-bearing FPC classification. Justification for the non fish-bearing classification is provided in the comments section of the table.

**Table 7: Summary of Data from Surveyed Non-Fish Bearing Reaches in the Dog Creek Watershed**

| Stream Name                       | ILP   | Site | Reach | Grad (%) | Temp (°C) | Cond. (uS) | Flow | Turb | Sampling Methods       |              |                  |       |        | Comments                                                                                                                                                    |
|-----------------------------------|-------|------|-------|----------|-----------|------------|------|------|------------------------|--------------|------------------|-------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |       |      |       |          |           |            |      |      | Electrofishing         |              |                  | Other |        |                                                                                                                                                             |
|                                   |       |      |       |          |           |            |      |      | area (m <sup>2</sup> ) | effort (sec) | Settings V/Hz/μs | Type  | Effort |                                                                                                                                                             |
|                                   |       |      |       |          |           |            |      |      |                        |              |                  |       |        |                                                                                                                                                             |
| Dog Creek Watershed - Sites 43-52 |       |      |       |          |           |            |      |      |                        |              |                  |       |        |                                                                                                                                                             |
| Unnamed                           | 72002 | 48   | 1     | 3        | NA        | NA         | L    | NA   | NA                     | NA           | NA               |       |        | Seasonal and intermittent with no accessible habitat from Dog C. - no channel near mouth as water permeates through 30m high fluvial terrace area into Dog. |
| Unnamed                           | 72006 | 51   | 1     | 4        | NA        | NA         | L    | NA   | 1                      | 28           | 700/60/4         |       |        | Some water sampled near mouth but most of channel u/s dry with no visible channel after 10m. No fisheries potential                                         |



## 2.4.2 Follow-up Sampling Required (Inferred Fish-bearing Reaches)

Table 8 summarizes the need for follow-up sampling in reaches where fish presence has been inferred. The table doesn't include inferred fish-bearing reaches where fish presence was confirmed in upstream reaches. A level of confidence has also been included in the table to facilitate prioritization of the follow-up sampling process. Each reach has been assigned a priority number of either 1 or 2 where,

- **Priority 1:** unlikely fish use (marginal fish habitat)
- **Priority 2:** likely fish use (fish habitat available, easily accessible)

It is anticipated that follow-up sampling in Priority 1 reaches will result in a confirmation of fish absence in a reach, while sampling in Priority 2 reaches have a high probability of confirming fish presence. However, some discretion should be used in the follow-up sampling process. In some reaches, sampling conditions were not conducive to the capture of fish and more successful attempts at sampling may be made in bordering reaches that weren't sampled but may offer better habitat and thus a better probability of confirming fish presence in the system.

**Table 8: Follow-up sampling required for classification of inferred fish-bearing reaches in the Dog Creek Watershed**

| Stream Name | ILP   | Reach | Site | Timing | Methods | Priority | Comments                                                                                                       |
|-------------|-------|-------|------|--------|---------|----------|----------------------------------------------------------------------------------------------------------------|
| Dog C.      | 72001 | 7     | 46   | July   | EF/MT   | 1        | Resample for RB presence. Caught PCC in reach 10 but suspect no RB use due to excessive BD's and wetlands d/s. |
| Dog C.      | 72001 | 10    | 47   | July   | EF/MT   | 1        | Resample for RB presence. Caught PCC but suspect no RB use due to excessive BD's and wetlands d/s.             |

## Project Area Bibliography

Hancock, M.J., Leaney-East, A.J., Marshall, D.E. 1983. Catalogue of Salmon Streams and Spawning Escapements of Statistical Area 4 (Upper Skeena River). Canadian Data Report of Fisheries & Aquatic Sciences. No. 394.

Bustard, D. and Associates. 1989. Assessment of Rainbow Trout Recruitment from Streams Tributary to Babine Lake. Prepared for B.C. Ministry of Environment, Smithers, B.C.

Luiker, E.A., and Hickey, D.G. 1996. A Reconnaissance Survey of Llgityuz Lake (Watershed Code 180-5453-457 03). Prepared by EDI Environmental Dynamics Inc., Prince George, B.C. for MELP Fisheries Branch, Skeena Region, Smithers, B.C. February 1996. iv + 20pp + Appendices A to D.

Carmichael, N.B. and Bonner, L. 1977. An Inventory of the Pinkut Watershed. Stream Inventory, Fish and Wildlife Branch, Victoria, B.C.

AGRA Earth and Environmental Ltd. 1996. Part 3: Level I Fish Population and Riverine Habitat Assessment Maxan Watershed. February 1996. Prince George, B.C. iv + 25pp + Appendix 1.

Babine Forest Products Co. in partnership with the Ned'u'ten Fisheries Commission. 1996. Watershed Restoration Program, Taltapin Watershed, Level I Fish and Fish Habitat Assessment. Prepared for Watershed Restoration Program, Lakes Forest District, Burns Lake, B.C., and Skeena MELP Fisheries Branch, Smithers, B.C. July, 1996. 50pp.

Caw, G.B. 1978. An Inventory of the Ootsanee Lake Drainage, Tributary to Cheslatta Lake and Streams Tributary to the South Bank of Cheslatta Lake. Fish and Wildlife Branch, Victoria, B.C.

SKR Consultants Ltd. 1996. Fish-Stream Identification: Lakes Forest District, Small Business Forest Enterprises Program (Decker Lake tributaries). Prepared by SKR Consultants Ltd., Smithers, B.C. for the Lakes Forest District Small Business Forest Enterprises Program, Burns Lake, B.C.

Degisi, J.S. and Burrows, J.A. 1995. Reconnaissance Survey of Unnamed "Gerow" Lake Watershed Code 180-3740-952-019-870-01. Smithers, B.C. Prepared for MELP Fisheries Branch, Skeena Region, Smithers, B.C. iii + 16pp + Appendices A to E.

Degisi, J.S. and Burrows, J.A. 1995. Reconnaissance Survey of Anders Lake Watershed Code 180-3740-952-665-230-01. Smithers, B.C. Prepared for MELP Fisheries Branch, Skeena Region, Smithers, B.C. iii + 18pp + Appendices A to E.

Fish presence and distribution information within the project area was also obtained from FISS maps within the Smithers MELP regional library. These maps included: 93K/3, 93K/4, 93K/5, 93K/6, 93K/12, 93F/11, 93F/12, 93F/13, 93F/14, 93L/1 and 93L/8.

## **List of Appendices**

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## **Appendix I: Attachments Available at MELP Office**

## Appendix II: Thumbnail Photographs

## Index of Thumbnail Photos for Dog Creek Watershed

|                 |                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Photo 1</b>  | Dog C. (ILP 72001) Reach 1 Site 43 u/s view 931 (Roll 25 Frame 13 CD 6 Image 8)                                                                                              |
| <b>Photo 2</b>  | Dog C. (ILP 72001) Reach 1 Site 43 d/s view 932 (Roll 25 Frame 14 CD 6 Image 9)                                                                                              |
| <b>Photo 3</b>  | Dog C. (ILP 72001) Reach 1 Site 43 Channel Cross-Section 950-from left bank top overlooking mouth of Dog C. with Cheslatta R. in background (Roll 25 Frame 15 CD 6 Image 10) |
| <b>Photo 4</b>  | Dog C. (ILP 72001) Reach 2 Site 44 u/s view 1044 (Roll 25 Frame 17 CD 6 Image 12)                                                                                            |
| <b>Photo 5</b>  | Dog C. (ILP 72001) Reach 2 Site 44 d/s view 1050 (Roll 25 Frame 18 CD 6 Image 13)                                                                                            |
| <b>Photo 6</b>  | Dog C. (ILP 72001) Reach 3 Site 45 u/s view 1115-note left bank erosion (Roll 25 Frame 19 CD 6 Image 14)                                                                     |
| <b>Photo 7</b>  | Dog C. (ILP 72001) Reach 3 Site 45 d/s view 1116 (Roll 25 Frame 20 CD 6 Image 15)                                                                                            |
| <b>Photo 8</b>  | Dog C. (ILP 72001) Reach 7 Site 46 d/s view 1203-picture shows channelized portion of this wetland reach (Roll 25 Frame 21 CD 6 Image 16)                                    |
| <b>Photo 9</b>  | Dog C. (ILP 72001) Reach 7 Site 46 u/s view 1204-picture shows channelized portion of this wetland reach (Roll 25 Frame 22 CD 6 Image 17)                                    |
| <b>Photo 10</b> | Dog C. (ILP 72001) Reach 10 Site 47 d/s view 1542 (Roll 26 Frame 22 CD 6 Image 39)                                                                                           |
| <b>Photo 11</b> | Dog C. (ILP 72001) Reach 10 Site 47 u/s view 1543 (Roll 26 Frame 23 CD 6 Image 40)                                                                                           |
| <b>Photo 12</b> | ILP 72002 Reach 1 Site 48 Channel Bed 1000- not much for photo opp (Roll 25 Frame 16 CD 6 Image 11)                                                                          |
| <b>Photo 13</b> | ILP 72006 Reach 1 Site 51 d/s view 1214 (lake in background) - no "creek" to photograph u/s (Roll 26 Frame 21 CD 6 Image 38)                                                 |



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

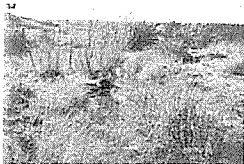


Photo 7



Photo 8



Photo 9



Photo 10



Photo 11

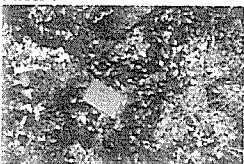


Photo 12

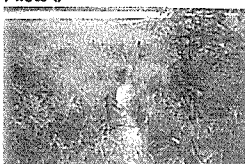


Photo 13

## Appendix III: FDIS Reach/Site Summaries



# FDIS Reach/Site Summary

Reach # 1— Site # 43

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name  Local Name  Dog C.  
ILP  72001 Map  93F.072 Reach #  1 Sample Type  B

## REACH ATTRIBUTES

Length (km)  0.6 US Elev.  805 Bars ☐ N ☐ DI ☒ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR  
DS Elev.  791 Magnitude  15 Setting  VW Riparian Veg.  G  
Order  3 BGC Zone  SBS Exposed/Eroded  V Landuse  AG

## SITE ATTRIBUTES

Site #  43 UTM(Zone/East/North/Method)  Site Lg  300 Access  V4 Fish Crd? ☒ Date  1997/09/28

## CHANNEL

Mean Channel Width (m)  4.2 Mean Wetted Width (m)  2.5 Mean Residual Pool Depth (m)  0.3  
Mean Gradient  6.3 Mean Wb Depth  0.8 No Vis.Ch. ☐ Intermittent ☐  
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp.  7.2 pH  8.2 Cond.  194 Turb. ☐ T ☐ M ☐ L ☒ C

## COVER

COVER        Total  40 % LWD  N DIST  NA

## MORPHOLOGY

BED MATERIAL Dominant:  C Subdom:  G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95:  60 D (cm):  25 Morph:  SP ☐ ☐ ☒ ☐ ☐ ☐ ☐  
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L  
Pattern  IR Islands  N Coupling  CO Confinement  CO

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # Site #

2- 44

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name Dog C.  
ILP 72001 Map 93F.072 Reach # 2 Sample Type B

## REACH ATTRIBUTES

Length (km) 0.43 US Elev. 822 Bars ☐ N ☐ DI ☒ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR  
DS Elev. 805 Magnitude 14 Setting VW Riparian Veg. S  
Order 3 BGC Zone SBS Exposed/Eroded N Landuse AG

## SITE ATTRIBUTES

Site # 44 UTM(Zone/East/North/Method) Site Lg 250 Access FT Fish Crd? ☒ Date 1997/09/28

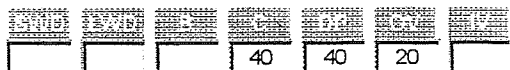
## CHANNEL

Mean Channel Width (m) 1.7 Mean Wetted Width (m) 1.5 Mean Residual Pool Depth (m) 0.4  
Mean Gradient 2.9 Mean Wb Depth 0.6 No Vis.Ch. ☐ Intermittent ☐  
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp. 7.7 pH 7.7 Cond. 210 Turb. ☐ T ☐ M ☐ L ☒ C

## COVER

COVER  Total 30 % LWD N DIST NA

## MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 10 D (cm): 4 Morph: RP ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
☒ N ☐ D ☐ P ☐ M ☐ T ☐ L ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Pattern IR Islands O Coupling DC Confinement UN

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # Site #

3- 45

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name Dog C.  
ILP 72001 Map 93F.072 Reach # 3 Sample Type B

## REACH ATTRIBUTES

Length (km) 1.55 US Elev. 875 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev. 822 Magnitude 14 Setting VW Riparian Veg. S  
Order 3 BGC Zone SBS Exposed/Eroded V Landuse AG

## SITE ATTRIBUTES

Site # 45 UTM(Zone/East/North/Method) Site Lg 150 Access FT Fish Crd? ☒ Date 1997/09/28

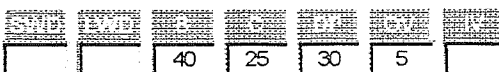
## CHANNEL

Mean Channel Width (m) 1.9 Mean Wetted Width (m) 1.4 Mean Residual Pool Depth (m) 0.2  
Mean Gradient 2.8 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐  
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp. 7.7 pH 7.7 Cond. 210 Turb. ☐ T ☐ M ☐ L ☒ C

## COVER

COVER  Total 50 % LWD N DIST NA

## MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 30 D (cm): 5 Morph: RP ☐ ☐ ☒ ☐ ☐ ☐ ☐  
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐  
Bars ☐ N ☐ D ☒ P ☒ M ☐ T ☐ L  
Pattern IR Islands O Coupling PC Confinement OC

## REACH FEATURES

| NID | Map #   | Type | Ht. | Lgth. | No. | Roll Frame No. | UTM (Zone/Easting/Northing) | Comment |
|-----|---------|------|-----|-------|-----|----------------|-----------------------------|---------|
| 5   | 93F.072 | BD   | 2   |       |     |                |                             |         |

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # 7- Site # 46

Watershed Code: 000-000000-000000-000000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name  Local Name  Dog C.  
ILP  72001 Map  93F.072 Reach #  7 Sample Type  B

## REACH ATTRIBUTES

Length (km)  1.35 US Elev.  902 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev.  890 Magnitude  9 Setting  PN Riparian Veg.  W  
Order  2 BGC Zone  SBS Exposed/Eroded  N Landuse  OT

## SITE ATTRIBUTES

Site #  46 UTM(Zone/East/North/Method)     Site Lg  85 Access  V4 Fish Crd? ☒ Date  1997/09/28

## CHANNEL

Mean Channel Width (m)  1.2 Mean Wetted Width (m)  0.7 Mean Residual Pool Depth (m)  0.2  
Mean Gradient  1.0 Mean Wb Depth  0.4 No Vis.Ch. ☐ Intermittent ☐  
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp.  8.8 pH  7.2 Cond.  285 Turb. ☐ T ☐ M ☒ L ☐ C

## COVER

COVER        Total  25 % LWD  F DIST  E  
 10  10  10  40  30

## MORPHOLOGY

BED MATERIAL Dominant:  F Subdom:  G DISTURBANCE INDICATORS O1 ☒ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3  
D95:  15 D (cm):  4 Morph:  RP C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5  
Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L Pattern  IR Islands  O Coupling  PC Confinement  OC

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

10- 47

WATERSHED

|     |       |     |         |         |    |             |   |
|-----|-------|-----|---------|---------|----|-------------|---|
| ILP | 72001 | Map | 93F.072 | Reach # | 10 | Sample Type | B |
|-----|-------|-----|---------|---------|----|-------------|---|

Length (km) 0.95 US Elev. 925 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev. 915 Magnitude 6 Setting PN Riparian Veg. C  
Order 2 BGC Zone SBS Exposed/Eroded N Landuse NO

| Site # | UTM(Zone/East/North/Method) | Site Lg | Access | Fish Crd?                           | Date       |
|--------|-----------------------------|---------|--------|-------------------------------------|------------|
| 47     |                             | 160     | FT     | <input checked="" type="checkbox"/> | 1997/10/05 |

Mean Channel Width (m) 1.4 Mean Wetted Width (m) 1.3 Mean Residual Pool Depth (m) 0.3

Mean Gradient 3.7 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐

Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

Temp. 3.8 pH 7.6 Cond. 165 Turb. ☐ T ☐ M ☒ L ☐ C

| COVER | EWL | EWL | E  | EW | EW | EW | Total | % | LWD | F | DIST | E |
|-------|-----|-----|----|----|----|----|-------|---|-----|---|------|---|
|       | 15  | 20  | 10 | 15 | 30 | 10 |       |   |     |   |      |   |

[illegible]

## SITE FEATURES

## F S Z

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # Site #

1- 48

Watershed Code: 000-000000-000000-000000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name

Local Name

ILP

72002

Map

93F.072

Reach #

1

Sample Type B

## REACH ATTRIBUTES

Length (km)

0.52

US Elev.

831

Bars

N

DI

PT

CS

JN

MC

DM

WD

NV

TR

DS Elev.

798

Magnitude

1

Setting

VW

Riparian Veg.

S

Order

1

BGC Zone

SBS

Exposed/Eroded

NV

Landuse

AG

## SITE ATTRIBUTES

Site #

48

UTM(Zone/East/North/Method)

Site Lg

50

Access

FT

Fish Crd?

Date

1997/09/28

## CHANNEL

Mean Channel Width (m)

0.4

Mean Wetted Width (m)

0.0

Mean Residual Pool Depth (m)

0.0

Mean Gradient

3.2

Mean Wb Depth

0.1

No Vis.Ch.

Intermittent

Stage

L

M

H

Dw

Tribs.

## WATER

Temp.

pH

Cond.

Turb.

T

M

L

C

## COVER

COVER

20

10

70

20

10

70

Total

20

%

LWD

N

DIST

NA

## MORPHOLOGY

BED MATERIAL

Dominant:

F

Subdom:

NA

D95:

1

D (cm):

1

Morph:

RP

DISTURBANCE INDICATORS

O1

B1

B2

B3

D1

D2

D3

C1

C2

C3

C4

C5

S1

S2

S3

S4

S5

Bars

N

D

P

M

T

L

Pattern

SI

Islands

N

Coupling

PC

Confinement

FC

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB

SC

FC

SWP/SLG

FL/BV

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # Site #

4- 49

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name

Local Name

ILP

72002

Map

93F.072

Reach #

4

Sample Type B

## REACH ATTRIBUTES

Length (km)

1.4

US Elev.

875

Bars

N

DI

PT

CS

JN

MC

DM

WD

NV

TR

DS Elev.

845

Magnitude

1

Setting

VW

Riparian Veg.

C

Order

1

BGC Zone

SBS

Exposed/Eroded

N

Landuse

OT

## SITE ATTRIBUTES

Site #

49

UTM(Zone/East/North/Method)

Site Lg

140

Access

V4

Fish Crd?

Date

1997/09/28

## CHANNEL

Mean Channel Width (m)

0.0

Mean Wetted Width (m)

0.0

Mean Residual Pool Depth (m)

0.0

Mean Gradient

0.0

Mean Wb Depth

0.0

No Vis.Ch.

Intermittent

Stage

L

M

H

Dw

Tribs.

## WATER

Temp.

pH

Cond.

Turb.

T

M

L

C

## COVER

COVER

Total

%

LWD

DIST

## MORPHOLOGY

BED MATERIAL

Dominant:

Subdom:

D95:

D (cm):

Morph:

DISTURBANCE INDICATORS

O1

B1

B2

B3

D1

D2

D3

C1

C2

C3

C4

C5

S1

S2

S3

S4

S5

Bars

N

D

P

M

T

L

Pattern

Islands

Coupling

Confinement

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB

SC

FC

SWP/SLG

FL/BV

Accompanying Reach or Site Comments ?

# FDIS Reach/Site Summary

Reach # Site #

1- 50

Watershed Code: 000-000000-000000-000000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
ILP 72004 Map 93F.072 Reach # 1 Sample Type B

## REACH ATTRIBUTES

Length (km) 0.5 US Elev. 928 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev. 888 Magnitude 2 Setting VW Riparian Veg. C  
Order 2 BGC Zone SBS Exposed/Eroded N Landuse NO

## SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date  
50 150 FT 1997/10/05

## CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0  
Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐  
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

## COVER

COVER  Total % LWD DIST

## MORPHOLOGY

BED MATERIAL Dominant: Subdom: DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: D (cm): Morph: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L  
Pattern Islands Coupling Confinement

## REACH FEATURES

## SITE FEATURES

## F.S.Z

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒



# FDIS Reach/Site Summary

Reach # Site #

1- 51

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
ILP 72006 Map 93F.072 Reach # 1 Sample Type B

## REACH ATTRIBUTES

Length (km) 0.14 US Elev. 893 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev. 890 Magnitude 2 Setting PN Riparian Veg. C  
Order 2 BGC Zone SBS Exposed/Eroded N Landuse NO

## SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date  
51 85 FT ☒ 1997/10/05

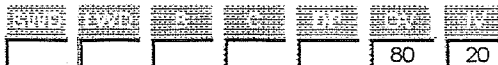
## CHANNEL

Mean Channel Width (m) 0.1 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0  
Mean Gradient 3.8 Mean Wb Depth 0.1 No Vis.Ch. ☐ Intermittent ☐  
Stage ☒ L ☐ M ☐ H Dw ☒ Tribs. ☐

## WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

## COVER

COVER  Total 10 % LWD N DIST NA

## MORPHOLOGY

BED MATERIAL Dominant: F Subdom: NA DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: 1 D (cm): 1 Morph: RP C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L  
Pattern IR Islands N Coupling DC Confinement UN

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

# FDIS Reach/Site Summary

Reach # Site #

2- 52

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name  
ILP 82049 Map 93F.082 Reach # 2 Sample Type B

## REACH ATTRIBUTES

Length (km) 0.8 US Elev. 943 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR  
DS Elev. 920 Magnitude 1 Setting PN Riparian Veg. C  
Order 1 BGC Zone SBS Exposed/Eroded N Landuse FB

## SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date  
52 60 FT 1997/10/05

## CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0  
Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐  
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

## WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

## COVER

COVER Total % LWD DIST

## MORPHOLOGY

BED MATERIAL Dominant: Subdom: DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
D95: D (cm): Morph: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L  
Pattern Islands Coupling Confinement

## REACH FEATURES

## SITE FEATURES

## FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

## Appendix IV: FDIS Site Cards

# Site Card

14-Mar-98

## PROJECT

Project Name Burns Lake Project Code 06-FRAN-0000-0004-1998  
 Stream Name (gaz.) CHESLATTIA RIVER  
 Project Watershed Code 180-545300-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name Dog C.  
 Watershed Code 000-000000-00000-00000-0000-000-000-000-000-000-000  
 ILP 72001 ✓ Map 93F.072 ✓ Reach # 1 ✓

Site # NID Map UTM (Zone/East/North/Method) Site Lg Method Access Fish Crd?  
 43 ✓ 544 ✓ 93F.072 300 ✓ HC ✓ V4 ✓ X  
 Date 1997/09/28 ✓ Time 09:30 ✓ Agency C016 ✓ Crew SR/MJ ✓

## CHANNEL

Channel Width (m) HC 4.2 ✓ 4.7 ✓ 3.9 ✓ 4.1 ✓  
 Wetted Width (m) HC 2.7 ✓ 3.0 ✓ 1.9 ✓ 2.4 ✓  
 Pool Depth (m) MS 0.3 ✓ 0.3 ✓ 0.3 ✓

Method I 6.0 6.5 ✓ C  
 Method II 7.5 5.0 ✓ C

Wb. Depth 0.8 ✓ 0.7 ✓  
 Stage X L M H  
 No Vis. Ch. Intermittent  
 Dw Tribs.

## WATER

### FLOOD SIGNS

Method: GE  
 Temp. 7.2 ✓ Method: T3  
 pH 8.2 ✓ Method: P2

Req #  
 EMS  
 Cond. 194 ✓ Method: S4  
 Turb. T M L X C Method: GE

## COVER

### COVER

Total 40 ✓ %  
 60 10 30

0 0%

LWD N ✓  
 DIST NA ✓

INTREAM VEG X N A M V

# Site Card

03-Mar-98

LB SHP ☒ V ☐ RIP ☒ N  
Texture ☒ F ☒ G ☒ C ☐ B ☐ R ☐ A STG

RB SHP ☒ V ☐ RIP ☒ N  
Texture ☒ F ☒ G ☒ C ☐ B ☐ R ☐ A STG

## MORPHOLOGY

BED MATERIAL Dominant: ☐ C Subdom: ☒ G  
D95: ☐ 60 D (cm): ☐ 25 Morph: ☐ SP

DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3  
☐ ☐ ☒ ☐ ☐ ☐ ☐  
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5  
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Pattern ☐ IR ☒  
Islands ☐ N ☒  
Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L  
Coupling ☐ CO ☒  
Confinement ☐ CO ☒

## FEATURE

FSZ TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

## PHOTO DOCUMENTATION

| Photo     | Foc | Lg | Dir                                                                                | Comments |
|-----------|-----|----|------------------------------------------------------------------------------------|----------|
| R 25 F 13 | ST  | U  | 931                                                                                |          |
| R 25 F 14 | ST  | D  | 932                                                                                |          |
| R 25 F 15 | ST  | S  | 950-from left bank top overlooking mouth of Dog C. with Cheslatta R. in background |          |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments                |
|--------------------|------|---------|---------|-------------------------|
| Rearing Habitat    | P    | G       | TR      | excellent boulder cover |
| Spawning Habitat   | P    | M       | TR      |                         |
| OverWinter Habitat | P    | M       | TR      | lacks very deep pools   |
| Cover              | P    | M       | TR      |                         |
| Other              |      |         |         |                         |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                            |
|-----------|-------------------------------------------------------------------------------------|
| SITE CARD | site =from mouth with Cheslatta to 300m u/s                                         |
| COVER     | no riparian zone (see photos) - incised high v-shaped gully into large flat plateau |
| COVER     | few very large boulders which provide majority of habitat, although they do no co   |

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## Site Card

03-Mar-98

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|            |                                                              |
|------------|--------------------------------------------------------------|
| MORPHOLOGY | continual erosion of banks into channel                      |
| COVER      | very nice creek with excellent step-pool and boulder habitat |

# Site Card

03-Mar-98

| PROJECT                |                                                     |
|------------------------|-----------------------------------------------------|
| Project Name           | Burns Lake                                          |
| Stream Name (gaz.)     | CHESLATA RIVER                                      |
| Project Watershed Code | 180-545300-00000-00000-0000-000-000-000-000-000-000 |
| Project Code           | 06-FRAN-0000-0004-1998                              |

| WATERSHED      |                                                     |
|----------------|-----------------------------------------------------|
| Gazetted Name  | Local Name Dog C.                                   |
| Watershed Code | 000-000000-00000-00000-0000-000-000-000-000-000-000 |
| ILP            | 72001                                               |
| Map            | 93F.072                                             |
| Reach #        | 2                                                   |

| Site # | NID        | Map     | UTM(Zone/East/North/Method) | Site Lg | Method | Access | Fish Crd?                           |
|--------|------------|---------|-----------------------------|---------|--------|--------|-------------------------------------|
| 44     | 545        | 93F.072 |                             | 250     | HC     | FT     | <input checked="" type="checkbox"/> |
| Date   | 1997/09/28 | Time    | 10:44                       | Agency  | C016   | Crew   | SR/MJ                               |

| CHANNEL           |                                       |                            |                            |     |     |     |  |  |  |
|-------------------|---------------------------------------|----------------------------|----------------------------|-----|-----|-----|--|--|--|
| Channel Width (m) | HC                                    | 1.6                        | 1.7                        | 1.7 | 1.6 | 1.9 |  |  |  |
| Wetted Width (m)  | HC                                    | 1.4                        | 1.6                        | 1.5 | 1.3 | 1.6 |  |  |  |
| Pool Depth (m)    | MS                                    | 0.4                        | 0.4                        | 0.3 |     |     |  |  |  |
| Method I          | 2.5                                   | 3.0                        | C                          |     |     |     |  |  |  |
| Method II         | 3.0                                   | 3.0                        | C                          |     |     |     |  |  |  |
| Wb Depth          | 0.6                                   | 0.5                        |                            |     |     |     |  |  |  |
| Stage             | <input checked="" type="checkbox"/> L | <input type="checkbox"/> M | <input type="checkbox"/> H |     |     |     |  |  |  |
| No Vis.Ch.        | <input type="checkbox"/>              |                            |                            |     |     |     |  |  |  |
| Dw                | <input type="checkbox"/>              |                            |                            |     |     |     |  |  |  |
| Intermittent      | <input type="checkbox"/>              |                            |                            |     |     |     |  |  |  |
| Tribes            | <input type="checkbox"/>              |                            |                            |     |     |     |  |  |  |

| WATER       |                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------|
| FLOOD SIGNS | Req #                                                                                                                        |
| Method: GE  | EMS                                                                                                                          |
| Temp. 7.7   | Cond. 210                                                                                                                    |
| Method: T3  | Method: S4                                                                                                                   |
| pH 7.7      | Turb. <input type="checkbox"/> T <input type="checkbox"/> M <input type="checkbox"/> L <input checked="" type="checkbox"/> C |
| Method: P2  | Method: GE                                                                                                                   |

| COVER       |                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------|
| COVER       | Total 30 %                                                                                                             |
| 40          | 40                                                                                                                     |
| 20          |                                                                                                                        |
| LWD         | N                                                                                                                      |
| DIST        | NA                                                                                                                     |
| INTREAM VEG | <input checked="" type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> M <input type="checkbox"/> V |

# Site Card

03-Mar-98

|         |                                                                                                                                                                              |     |                            |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------|
| LB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> G |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>   |
| RB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> G |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>   |

## MORPHOLOGY

| BED MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Dominant: <input type="checkbox"/> C | Subdom: <input type="checkbox"/> G |                          |                          |                          |                          |                          |                          |                          |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----|----|----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| D95: <input type="checkbox"/> 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | D (cm): <input type="checkbox"/> 4   | Morph: <input type="checkbox"/> RP |                          |                          |                          |                          |                          |                          |                          |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <table border="1"> <tr> <th colspan="3">DISTURBANCE INDICATORS</th> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> |                                      |                                    | DISTURBANCE INDICATORS   |                          |                          | O1                       | B1                       | B2                       | B3                       | D1 | D2 | D3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | C1 | C2 | C3 | C4 | C5 | S1 | S2 | S3 | S4 | S5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DISTURBANCE INDICATORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |                                    | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>             | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| C1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | C2                                   | C3                                 | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>             | <input type="checkbox"/>           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |    |    |    |    |    |    |    |    |    |    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |

|             |                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pattern     | <input type="checkbox"/> IR                                                                                                                                                  |
| Islands     | <input type="checkbox"/> O                                                                                                                                                   |
| Bars        | <input checked="" type="checkbox"/> N <input type="checkbox"/> D <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> L |
| Coupling    | <input type="checkbox"/> DC                                                                                                                                                  |
| Confinement | <input type="checkbox"/> UN                                                                                                                                                  |

## FEATURE

|     |      |    |    |         |       |
|-----|------|----|----|---------|-------|
| ESZ | TRIB | SC | FC | SWP/SLG | FL/BV |
|-----|------|----|----|---------|-------|

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |
|-------|-----|----|-----|----------|
| R 25  | F   | 17 | ST  | U 1044   |
| R 25  | F   | 18 | ST  | D 1050   |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments                 |
|--------------------|------|---------|---------|--------------------------|
| Rearing Habitat    | P    | M       | TR      | improves in upper reach  |
| Spawning Habitat   | P    | P       | TR      | no uniform gravel ptches |
| OverWinter Habitat | P    | G       | TR      |                          |
| Cover              | P    | M       | TR      |                          |
| Other              |      |         |         |                          |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                         |
|------------|----------------------------------------------------------------------------------|
| SITE CARD  | site=300m d/s from road                                                          |
| MORPHOLOGY | near upper boundary, substrate more cobbles and boulders                         |
| COVER      | fish preferred the cobble cover to the pools - very productive here              |
| MORPHOLOGY | channel wanders through flat, agricultural grassy area - some shrubs in rip zone |



# Site Card

03-Mar-98

| PROJECT                |                                                      |
|------------------------|------------------------------------------------------|
| Project Name           | Burns Lake                                           |
| Project-Code           | 06-FRAN-0000-0004-1998                               |
| Stream Name (gaz.)     | CHESLATTIA RIVER                                     |
| Project Watershed Code | 180-545300-00000-00000-0000-0000-000-000-000-000-000 |

| WATERSHED      |                                                      |
|----------------|------------------------------------------------------|
| Gazetted Name  | Local Name Dog C.                                    |
| Watershed Code | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |
| ILP            | 72001 ✓ Map 93F.072 ✓ Reach # 3 ✓                    |

| Site # | NID        | Map     | UTM (Zone/East/North/Method) | Site Lg | Method | Access | Fish Crd? |
|--------|------------|---------|------------------------------|---------|--------|--------|-----------|
| 45     | 546        | 93F.072 |                              | 150     | HC     | FT     | ✓         |
| Date   | 1997/09/28 | Time    | 11:15                        | Agency  | C016   | Crew   | SR/MJ     |

| CHANNEL           |                                  |
|-------------------|----------------------------------|
| Channel Width (m) | HC 3.1 ✓ 1.8 ✓ 1.4 ✓ 1.6 ✓ 1.5 ✓ |
| Wetted Width (m)  | HC 1.9 ✓ 1.4 ✓ 1.1 ✓ 1.3 ✓ 1.2 ✓ |
| Pool Depth (m)    | MS 0.2 ✓ 0.2 ✓ 0.2 ✓             |
| Method I          | 2.5 ✓ 3.0 ✓ C                    |
| Method II         | C                                |
| Wb Depth          | 0.4 ✓ 0.4 ✓ 0.35 ✓               |
| Stage             | ✓ L M H                          |
| No Vis.Ch.        | Intermittent                     |
| Dw                | Trib. ✓                          |

| WATER           |              |
|-----------------|--------------|
| FLOOD SIGNS     | Req #        |
| Method: GE      | EMS          |
| Temp. 7.7 ✓     | Method: T3   |
| pH 7.7 ✓        | Method: P2   |
| Cond. 210 ✓     | Method: S4 ✓ |
| Turb. T M L C ✓ | Method: GE   |

| COVER      |                        |
|------------|------------------------|
| COVER      | Total 50 ✓ %           |
| 40 25 30 5 | 1 ✓ 1-20%              |
| LWD N ✓    | INTREAM VEG. N ✓ A M V |
| DIST NA ✓  |                        |

# Site Card

03-Mar-98

|         |                                                                                                                                                                                                    |     |                                       |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------|
| LB SHP  | <input checked="" type="checkbox"/> S                                                                                                                                                              | RIP | <input checked="" type="checkbox"/> S |
| Texture | <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>              |
| RB SHP  | <input checked="" type="checkbox"/> S                                                                                                                                                              | RIP | <input type="checkbox"/> S            |
| Texture | <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> G <input checked="" type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>              |

| MORPHOLOGY   |                                     |                                       |                                       |                                       |                             |                            |                          |                                     |                          |                          |                          |                          |                          |                          |                          |
|--------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL | Dominant:                           | <input checked="" type="checkbox"/> C | Subdom:                               | <input checked="" type="checkbox"/> G | DISTURBANCE INDICATORS      | O1                         | B1                       | B2                                  | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |
| D95:         | <input type="checkbox"/> 30         | D (cm):                               | <input type="checkbox"/> 5            | Morph:                                | <input type="checkbox"/> RP | <input type="checkbox"/>   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |
|              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/>   |                                       |                             | C1                         | C2                       | C3                                  | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|              |                                     |                                       |                                       |                                       |                             | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pattern      | <input type="checkbox"/> IR         | <input checked="" type="checkbox"/>   |                                       |                                       |                             |                            |                          |                                     |                          |                          |                          |                          |                          |                          |                          |
| Islands      | <input type="checkbox"/> O          | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/>   |                             |                            |                          |                                     |                          |                          |                          |                          |                          |                          |                          |
| Bars         | <input type="checkbox"/> N          | <input type="checkbox"/> D            | <input checked="" type="checkbox"/> P | <input checked="" type="checkbox"/> M | <input type="checkbox"/> T  | <input type="checkbox"/> L |                          |                                     |                          |                          |                          |                          |                          |                          |                          |
| Coupling     | <input type="checkbox"/> PC         | <input checked="" type="checkbox"/>   |                                       |                                       |                             |                            |                          |                                     |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | <input type="checkbox"/> OC         | <input checked="" type="checkbox"/>   |                                       |                                       |                             |                            |                          |                                     |                          |                          |                          |                          |                          |                          |                          |

## FEATURE

|     |      |                          |    |                          |    |                          |         |                          |       |                          |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|
| FSZ | TRIB | <input type="checkbox"/> | SC | <input type="checkbox"/> | FC | <input type="checkbox"/> | SWP/SLG | <input type="checkbox"/> | FL/BV | <input type="checkbox"/> |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|

## PHOTO DOCUMENTATION

| Photo                                      | Foc Lg                                 | Dir | Comments                      |
|--------------------------------------------|----------------------------------------|-----|-------------------------------|
| R 25 <input checked="" type="checkbox"/> F | 19 <input checked="" type="checkbox"/> | ST  | U 1115-note left bank erosion |
| R 25 <input checked="" type="checkbox"/> F | 20 <input checked="" type="checkbox"/> | ST  | D 1116                        |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments                        |
|--------------------|------|---------|---------|---------------------------------|
| Rearing Habitat    | P    | G       | RB      | under cobbles, in pools         |
| Spawning Habitat   | P    | G       | RB      | abundant uniform gravel patches |
| OverWinter Habitat | P    | G       | RB      |                                 |
| Cover              | P    | G       | RB      |                                 |
| Other              |      |         |         |                                 |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                            |
|------------|-------------------------------------------------------------------------------------|
| SITE CARD  | site=100m u/s from Cheslatta road                                                   |
| COVER      | "boulder" cover = cobbles                                                           |
| MORPHOLOGY | some bank erosion occurring-see photo                                               |
| COVER      | very nice creek-still very productive; lacks much of a rip zone as located in agric |

# Site Card

03-Mar-98

## PROJECT

Project Name Burns Lake Project Code 06-FRAN-0000-0004-1998  
Stream Name (gaz.) CHESLATTIA RIVER  
Project Watershed Code 180-545300-00000-00000-0000-0000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name Dog C.  
Watershed Code 000-000000-00000-00000-0000-0000-000-000-000-000-000  
ILP 72001 Map 93F.072 Reach # 7

Site # NID Map UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
46 547 93F.072 85 HC V4 ☒  
Date 1997/09/28 Time 12:05 Agency C016 Crew SR/MJ

## CHANNEL

|                   | HC | 0.9 | 1.1 | 1.3 | 1.3 | 1.2 |  |  |  |
|-------------------|----|-----|-----|-----|-----|-----|--|--|--|
| Channel Width (m) | HC | 0.9 | 1.1 | 1.3 | 1.3 | 1.2 |  |  |  |
| Wetted Width (m)  | HC | 0.6 | 0.8 | 0.5 | 0.9 | 0.8 |  |  |  |
| Pool Depth (m)    | MS | 0.2 | 0.2 | 0.3 |     |     |  |  |  |

Method I 0.5 0.5 C  
Method II 2.5 0.5 C

Wb Depth 0.4 0.35 0.4  
Stage ☒ L ☐ M ☐ H  
No Vis.Ch. ☐ Intermittent ☐  
Dw ☐ Tribs. ☐

## WATER

### FLOOD SIGNS

Temp. 8.8 Method: T3  
pH 7.2 Method: P2

Req #  
EMS  
Cond. 285 Method: S4  
Turb. ☐ T ☐ M ☒ L ☐ C Method: GE

## COVER

### COVER

Total 25 %

|    |    |  |    |    |    |  |
|----|----|--|----|----|----|--|
| 10 | 10 |  | 10 | 40 | 30 |  |
|----|----|--|----|----|----|--|

1 1-20%

LWD F  
DIST E

INTREAM VEG ☒ N ☐ A ☐ M ☐ V

# Site Card

03-Mar-98

|         |                                                                                                                                                                              |     |                            |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------|
| LB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> S |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>   |
| RB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> S |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>   |

| MORPHOLOGY   |                                                                                                                                                                              |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL | Dominant:                                                                                                                                                                    | <input type="checkbox"/> F | Subdom:                    | <input type="checkbox"/> G | DISTURBANCE INDICATORS      | O1                                  | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |
| D95:         | <input type="checkbox"/> 15                                                                                                                                                  | D (cm):                    | <input type="checkbox"/> 4 | Morph:                     | <input type="checkbox"/> RP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |
|              |                                                                                                                                                                              |                            |                            |                            |                             | C1                                  | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|              |                                                                                                                                                                              |                            |                            |                            |                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pattern      | <input type="checkbox"/> IR                                                                                                                                                  |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Islands      | <input type="checkbox"/> O                                                                                                                                                   |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Bars         | <input type="checkbox"/> N <input type="checkbox"/> D <input checked="" type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> L |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Coupling     | <input type="checkbox"/> PC                                                                                                                                                  |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | <input type="checkbox"/> OC                                                                                                                                                  |                            |                            |                            |                             |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |

## FEATURE

|     |      |                          |    |                          |    |                          |         |                          |       |                          |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|
| FSZ | TRIB | <input type="checkbox"/> | SC | <input type="checkbox"/> | FC | <input type="checkbox"/> | SWP/SLG | <input type="checkbox"/> | FL/BV | <input type="checkbox"/> |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments                                                       |
|-------|-----|----|-----|----------------------------------------------------------------|
| R 25  | F   | 21 | ST  | D 1203-picture shows channelized portion of this wetland reach |
| R 25  | F   | 22 | ST  | U 1204-picture shows channelized portion of this wetland reach |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments                     |
|--------------------|------|---------|---------|------------------------------|
| Rearing Habitat    | P    | F       | RB      | quite shallow with few pools |
| Spawning Habitat   | P    | F       | RB      |                              |
| OverWinter Habitat | P    | F       | RB      |                              |
| Cover              | P    | F       | RB      |                              |
| Other              |      |         |         |                              |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                             |
|------------|--------------------------------------------------------------------------------------|
| SITE CARD  | site=channelized section on d/s side of road                                         |
| MORPHOLOGY | numerous BD's and swamps - site card depicts channelized portion of this reac        |
| COVER      | fair habitat but presence of numerous BD's and swamps may preclude or hinde          |
| SITE CARD  | productivity below reach 6 (lake) very high, but declines significantly in this reac |

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## Site Card

03-Mar-98

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|                   |
|-------------------|
| <b>MORPHOLOGY</b> |
|-------------------|

|                                          |
|------------------------------------------|
| most of reach fines, organics in wetland |
|------------------------------------------|

# Site Card

03-Mar-98

## PROJECT

Project Name Burns Lake Project Code 06-FRAN-0000-0004-1998  
Stream Name (gaz.) CHESLATTA RIVER  
Project Watershed Code 180-545300-00000-00000-0000-000-000-000-000-000-000

## WATERSHED

Gazetted Name Local Name Dog C.  
Watershed Code 000-000000-00000-00000-0000-000-000-000-000-000-000  
ILP 72001 Map 93F.072 Reach # 10

Site # NID Map UTM(Zone/East/North/Method) Site Lg Method Access Fish Crd?  
47 548 93F.082 160 HC FT ☒  
Date 1997/10/05 Time 15:40 Agency C016 Crew SR/MJ

## CHANNEL

|                   |    |     |     |     |     |     |  |  |  |
|-------------------|----|-----|-----|-----|-----|-----|--|--|--|
| Channel Width (m) | HC | 1.8 | 0.9 | 1.4 | 1.3 | 1.5 |  |  |  |
| Wetted Width (m)  | HC | 1.7 | 0.7 | 1.3 | 1.3 | 1.4 |  |  |  |
| Pool Depth (m)    | MS | 0.3 | 0.4 |     |     |     |  |  |  |

Method I 3.5 4.0 C  
Method II 3.5 C

Wb Depth 0.5 0.4 0.4  
Stage L ☒ M H  
No Vis.Ch. Intermittent  
Dw Tribs.

## WATER

### FLOOD SIGNS

Method: GE  
Temp. 3.8 Method: T3  
pH 7.6 Method: P2

Req #  
EMS  
Cond: 165 Method: S4  
Turb. T M ☒ L C Method: GE

## COVER

COVER Total 35 %  
15 20 10 15 30 10

1 1-20%

LWD F  
DIST E  
INTREAM VEG ☒ N A M V

# Site Card

03-Mar-98

|         |                                                                                                                                                                              |     |                             |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------|
| LB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> C  |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/> MF |
| RB SHP  | <input type="checkbox"/> S                                                                                                                                                   | RIP | <input type="checkbox"/> C  |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/> MF |

| MORPHOLOGY   |                                                                                                                                                                              |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|---------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL |                                                                                                                                                                              | Dominant: | <input type="checkbox"/> C | Subdom: | <input type="checkbox"/> F  | DISTURBANCE INDICATORS   |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| D95:         | <input type="checkbox"/> 35                                                                                                                                                  | D (cm):   | <input type="checkbox"/> 6 | Morph:  | <input type="checkbox"/> SP | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |
|              |                                                                                                                                                                              |           |                            |         |                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |
|              |                                                                                                                                                                              |           |                            |         |                             | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|              |                                                                                                                                                                              |           |                            |         |                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pattern      | <input type="checkbox"/> IR                                                                                                                                                  |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Islands      | <input type="checkbox"/> N                                                                                                                                                   |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Bars         | <input checked="" type="checkbox"/> N <input type="checkbox"/> D <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> L |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Coupling     | <input type="checkbox"/> PC                                                                                                                                                  |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | <input type="checkbox"/> OC                                                                                                                                                  |           |                            |         |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |

## FEATURE

|     |      |                          |    |                          |    |                          |         |                          |       |                          |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|
| FSZ | TRIB | <input type="checkbox"/> | SC | <input type="checkbox"/> | FC | <input type="checkbox"/> | SWP/SLG | <input type="checkbox"/> | FL/BV | <input type="checkbox"/> |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments |
|-------|-----|----|-----|----------|
| R 26  | F   | 22 | ST  | D 1542   |
| R 26  | F   | 23 | ST  | U 1543   |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments                                     |
|--------------------|------|---------|---------|----------------------------------------------|
| Rearing Habitat    | P    | G       | RB/PCC  | excellent step-pools, boulder (cobble) cover |
| Spawning Habitat   | P    | P       | RB/PCC  | substrate too large                          |
| OverWinter Habitat | P    | M       | RB/PCC  |                                              |
| Cover              | P    | M       | RB/PCC  |                                              |
| Other              |      |         |         |                                              |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                            |
|------------|-------------------------------------------------------------------------------------|
| SITE CARD  | site=30m u/s from 82050                                                             |
| SITE CARD  | did this reach rather than reach 9 (planned)-higher potential for fish capture in t |
| MORPHOLOGY | reach is gullied with cobbles, incised and lots of pools                            |
| COVER      | excellent habitat available, sampled extensively with only 1 PCC captured (no R     |

# Site Card

03-Mar-98

| PROJECT                |                                                      |
|------------------------|------------------------------------------------------|
| Project Name           | Burns Lake                                           |
| Project Code           | 06-FRAN-0000-0004-1998                               |
| Stream Name (gaz.)     | CHESLATTA RIVER                                      |
| Project Watershed Code | 180-545300-00000-00000-0000-0000-000-000-000-000-000 |

| WATERSHED      |                                                      |
|----------------|------------------------------------------------------|
| Gazetted Name  | Local Name                                           |
| Watershed Code | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |
| ILP            | 72002                                                |
| Map            | 93F.072                                              |
| Reach #        | 1                                                    |
| Site #         | NID                                                  |
| Map            | UTM(Zone/East/North/Method)                          |
| Site Lg        | Method                                               |
| Access         | Fish Crd?                                            |
| Date           | Time                                                 |
| Agency         | Crew                                                 |
|                | SR/MJ                                                |

| CHANNEL           |                        |
|-------------------|------------------------|
| Channel Width (m) | HC 0.4 0.3 0.3 0.4 0.4 |
| Wetted Width (m)  | GE 0.0 0.0 0.0 0.0 0.0 |
| Pool Depth (m)    | GE 0.0 0.0 0.0         |
| Method I          | 3.0 3.5 C              |
| Method II         | 3.0 C                  |
| Wb Depth          | 0.15 0.1 0.1           |
| Stage             | X L M H                |
| No Vis.Ch.        | Intermittent           |
| Dw.               | X Tribs.               |

| WATER       |         |
|-------------|---------|
| FLOOD SIGNS | Req #   |
| Temp.       | EMS     |
| pH          | Cond.   |
| Method:     | Method: |
| Method:     | Turb.   |
| Method:     | Method: |

| COVER    |             |
|----------|-------------|
| COVER    | Total 20 %  |
| 20 10 70 | 1 1-20%     |
| LWD      | INTREAM VEG |
| DIST     | N A M V     |



# Site Card

03-Mar-98

|         |                                                                                                                                                                              |     |                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------|
| LB SHP  | <input checked="" type="checkbox"/> V                                                                                                                                        | RIP | <input checked="" type="checkbox"/> M  |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input checked="" type="checkbox"/> MF |
| RB SHP  | <input checked="" type="checkbox"/> V                                                                                                                                        | RIP | <input checked="" type="checkbox"/> G  |
| Texture | <input checked="" type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | STG | <input type="checkbox"/>               |

## MORPHOLOGY

|                                 |                                      |                                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
|---------------------------------|--------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|
| BED MATERIAL                    | Dominant: <input type="checkbox"/> F | Subdom: <input type="checkbox"/> NA | DISTURBANCE INDICATORS   |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |
| D95: <input type="checkbox"/> 1 | D (cm): <input type="checkbox"/> 1   | Morph: <input type="checkbox"/> RP  | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |  |  |
|                                 |                                      |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |  |  |
|                                 |                                      |                                     | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |  |  |
|                                 |                                      |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |

|             |                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pattern     | <input checked="" type="checkbox"/> SI                                                                                                                                       |
| Islands     | <input checked="" type="checkbox"/> N                                                                                                                                        |
| Bars        | <input checked="" type="checkbox"/> N <input type="checkbox"/> D <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> L |
| Coupling    | <input checked="" type="checkbox"/> PC                                                                                                                                       |
| Confinement | <input checked="" type="checkbox"/> FC                                                                                                                                       |

## FEATURE

|     |      |    |    |         |       |
|-----|------|----|----|---------|-------|
| ESZ | TRIB | SC | FC | SWP/SLG | FL/BV |
|-----|------|----|----|---------|-------|

## PHOTO DOCUMENTATION

| Photo | Foc | Lg | Dir | Comments                        |
|-------|-----|----|-----|---------------------------------|
| R 25  | F   | 16 | ST  | BD 1000- not much for photo opp |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments               |
|--------------------|------|---------|---------|------------------------|
| Rearing Habitat    | P    | P       | TR      | seasonally wetted only |
| Spawning Habitat   | P    | P       | TR      | all fines              |
| OverWinter Habitat | P    | P       | TR      | seasonal               |
| Cover              | P    | P       | TR      |                        |
| Other              |      |         |         |                        |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                           |
|------------|------------------------------------------------------------------------------------|
| SITE CARD  | site= 50m u/s from Cheslatta Rd.                                                   |
| COVER      | agricultural land on right bank - pasture-immed rip zone = dense willow shrub in   |
| CHANNEL    | channel totally dry and all fines - likely only carries water during spring runoff |
| MORPHOLOGY | creek at mouth has no channel - water permeates through benched terraced are       |

# Site Card

03-Mar-98

| PROJECT                |  |                                                      |  |  |  |              |  |                        |  |
|------------------------|--|------------------------------------------------------|--|--|--|--------------|--|------------------------|--|
| Project Name           |  | Burns Lake                                           |  |  |  | Project Code |  | 06-FRAN-0000-0004-1998 |  |
| Stream Name (gaz.)     |  | CHESLATT A RIVER                                     |  |  |  |              |  |                        |  |
| Project Watershed Code |  | 180-545300-00000-00000-0000-0000-000-000-000-000-000 |  |  |  |              |  |                        |  |

| WATERSHED      |  |                                                      |  |     |  |         |  |         |  |   |  |
|----------------|--|------------------------------------------------------|--|-----|--|---------|--|---------|--|---|--|
| Gazetted Name  |  | Local Name                                           |  |     |  |         |  |         |  |   |  |
| Watershed Code |  | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |  |     |  |         |  |         |  |   |  |
| ILP            |  | 72002                                                |  | Map |  | 93F.072 |  | Reach # |  | 4 |  |

| Site # | NID | Map     | UTM(Zone/East/North/Method) |  |  | Site Lg | Method | Access | Fish Crd? |  |
|--------|-----|---------|-----------------------------|--|--|---------|--------|--------|-----------|--|
| 49     | 550 | 93F.072 |                             |  |  | 140     | HC     | V4     |           |  |

|      |            |      |       |        |      |      |       |
|------|------------|------|-------|--------|------|------|-------|
| Date | 1997/09/28 | Time | 10:15 | Agency | C016 | Crew | SR/MJ |
|------|------------|------|-------|--------|------|------|-------|

| CHANNEL           |  |                                                  |  |  |  |  |  |  |  |
|-------------------|--|--------------------------------------------------|--|--|--|--|--|--|--|
| Channel Width (m) |  |                                                  |  |  |  |  |  |  |  |
| Wetted Width (m)  |  |                                                  |  |  |  |  |  |  |  |
| Pool Depth (m)    |  |                                                  |  |  |  |  |  |  |  |
| Method I          |  |                                                  |  |  |  |  |  |  |  |
| Method II         |  |                                                  |  |  |  |  |  |  |  |
| Wb Depth          |  |                                                  |  |  |  |  |  |  |  |
| Stage             |  | L M H                                            |  |  |  |  |  |  |  |
| No Vis.Ch.        |  | <input checked="" type="checkbox"/> Intermittent |  |  |  |  |  |  |  |
| Dw                |  | Trib.                                            |  |  |  |  |  |  |  |

| WATER       |  |  |  |  |            |  |  |  |  |
|-------------|--|--|--|--|------------|--|--|--|--|
| FLOOD SIGNS |  |  |  |  | Req #      |  |  |  |  |
| Temp.       |  |  |  |  | EMS        |  |  |  |  |
| pH          |  |  |  |  | Cond.      |  |  |  |  |
| Method:     |  |  |  |  | Method:    |  |  |  |  |
| Method:     |  |  |  |  | Turb.      |  |  |  |  |
| Method:     |  |  |  |  | T M L C    |  |  |  |  |
| Method:     |  |  |  |  | Method: GE |  |  |  |  |

| COVER |  |       |  |   |  |             |  |  |  |
|-------|--|-------|--|---|--|-------------|--|--|--|
| COVER |  | Total |  | % |  | INTREAM VEG |  |  |  |
| LWD   |  |       |  |   |  | N A M V     |  |  |  |
| DIST  |  |       |  |   |  |             |  |  |  |

# Site Card

03-Mar-98

|         |                                                                                                                                                                   |     |                          |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|
| LB SHP  | <input type="checkbox"/>                                                                                                                                          | RIP | <input type="checkbox"/> |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | SIG | <input type="checkbox"/> |
| RB SHP  | <input type="checkbox"/>                                                                                                                                          | RIP | <input type="checkbox"/> |
| Texture | <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> C <input type="checkbox"/> B <input type="checkbox"/> R <input type="checkbox"/> A | SIG | <input type="checkbox"/> |

| MORPHOLOGY   |                            |                            |                            |                            |                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| BED MATERIAL | Dominant:                  | <input type="checkbox"/>   | Subdom:                    | <input type="checkbox"/>   | DISTURBANCE INDICATORS     | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |                          |                          |                          |
| D95:         | <input type="checkbox"/>   | D (cm):                    | <input type="checkbox"/>   | Morph:                     | <input type="checkbox"/>   | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
| Pattern      | <input type="checkbox"/>   |                            |                            |                            |                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Islands      | <input type="checkbox"/>   |                            |                            |                            |                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Bars         | <input type="checkbox"/> N | <input type="checkbox"/> D | <input type="checkbox"/> P | <input type="checkbox"/> M | <input type="checkbox"/> T | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Coupling     | <input type="checkbox"/>   |                            |                            |                            |                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Confinement  | <input type="checkbox"/>   |                            |                            |                            |                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |

## FEATURE

|     |      |                          |    |                          |    |                          |         |                          |       |                          |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|
| FSZ | TRIB | <input type="checkbox"/> | SC | <input type="checkbox"/> | FC | <input type="checkbox"/> | SWP/SLG | <input type="checkbox"/> | EL/BV | <input type="checkbox"/> |
|-----|------|--------------------------|----|--------------------------|----|--------------------------|---------|--------------------------|-------|--------------------------|

## PHOTO DOCUMENTATION

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments |
|--------------------|------|---------|---------|----------|
| Rearing Habitat    |      |         |         |          |
| Spawning Habitat   |      |         |         |          |
| OverWinter Habitat |      |         |         |          |
| Cover              |      |         |         |          |
| Other              |      |         |         |          |

## WILDLIFE

## COMMENT

| Section   | Comments                                                                        |
|-----------|---------------------------------------------------------------------------------|
| SITE CARD | site from road x-ing to 140m d/s                                                |
| CHANNEL   | "creek" is meltwater flow through gully (maybe). No water, vegetated "channel", |

# Site Card

03-Mar-98

| PROJECT                |  |                                                      |  |  |  |              |  |                        |  |
|------------------------|--|------------------------------------------------------|--|--|--|--------------|--|------------------------|--|
| Project Name           |  | Burns Lake                                           |  |  |  | Project Code |  | 06-FRAN-0000-0004-1998 |  |
| Stream Name (gaz.)     |  | CHESLATTIA RIVER                                     |  |  |  |              |  |                        |  |
| Project Watershed Code |  | 180-545300-00000-00000-0000-0000-000-000-000-000-000 |  |  |  |              |  |                        |  |

| WATERSHED      |  |                                                      |     |  |         |         |  |   |  |
|----------------|--|------------------------------------------------------|-----|--|---------|---------|--|---|--|
| Gazetted Name  |  | Local Name                                           |     |  |         |         |  |   |  |
| Watershed Code |  | 000-000000-00000-00000-0000-0000-000-000-000-000-000 |     |  |         |         |  |   |  |
| ILP            |  | 72004                                                | Map |  | 93F.072 | Reach # |  | 1 |  |

| Site # | NID | Map     | UTM(Zone/East/North/Method) |  |  | Site Lg | Method | Access | Fish Crd? |
|--------|-----|---------|-----------------------------|--|--|---------|--------|--------|-----------|
| 50     | 551 | 93F.072 |                             |  |  | 150     | HC     | FT     |           |

|      |            |      |       |        |      |      |       |
|------|------------|------|-------|--------|------|------|-------|
| Date | 1997/10/05 | Time | 12:45 | Agency | C016 | Crew | SR/MJ |
|------|------------|------|-------|--------|------|------|-------|

| CHANNEL           |  |  |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|--|--|--|
| Channel Width (m) |  |  |  |  |  |  |  |  |  |
| Wetted Width (m)  |  |  |  |  |  |  |  |  |  |
| Pool Depth (m)    |  |  |  |  |  |  |  |  |  |

|           |  |  |            |  |  |              |  |  |  |
|-----------|--|--|------------|--|--|--------------|--|--|--|
| Method I  |  |  | Wb Depth   |  |  | Stage        |  |  |  |
| Method II |  |  | No Vis.Ch. |  |  | Intermittent |  |  |  |
|           |  |  | Dw         |  |  | Trib.        |  |  |  |

| WATER       |  |  |  |  |       |  |  |  |  |
|-------------|--|--|--|--|-------|--|--|--|--|
| FLOOD SIGNS |  |  |  |  | Req # |  |  |  |  |
| Temp.       |  |  |  |  | EMS   |  |  |  |  |
| pH          |  |  |  |  | Cond. |  |  |  |  |
| Method:     |  |  |  |  | Turb. |  |  |  |  |

| COVER |  |  |  |  |             |  |  |  |  |
|-------|--|--|--|--|-------------|--|--|--|--|
| COVER |  |  |  |  | Total %     |  |  |  |  |
| LWD   |  |  |  |  | INTREAM VEG |  |  |  |  |
| DIST  |  |  |  |  | N A M V     |  |  |  |  |

# Site Card

03-Mar-98

LB SHP

☐

RIP

☐

Texture

☐

F

☐

G

☐

C

☐

B

☐

R

☐

A

☐

STG

☐

RB SHP

☐

RIP

☐

Texture

☐

F

☐

G

☐

C

☐

B

☐

R

☐

A

☐

STG

☐

## MORPHOLOGY

BED MATERIAL

Dominant:

☐

Subdom:

☐

D95:

☐

D (cm):

☐

Morph:

☐

DISTURBANCE  
INDICATORS

O1

B1

B2

B3

D1

D2

D3

☐☐☐☐☐☐☐

C1

C2

C3

C4

C5

S1

S2

S3

S4

S5

☐☐☐☐☐☐☐☐☐☐

Pattern

☐

Islands

☐

Bars

☐

N

☐

D

☐

P

☐

M

☐

T

☐

L

Coupling

☐

Confinement

☐

## FEATURE

FSZ

TRIB

☐

SC

☐

FC

☐

SWP/SLG

☐

EL/BV

☐

## PHOTO DOCUMENTATION

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments |
|--------------------|------|---------|---------|----------|
| Rearing Habitat    |      |         |         |          |
| Spawning Habitat   |      |         |         |          |
| OverWinter Habitat |      |         |         |          |
| Cover              |      |         |         |          |
| Other              |      |         |         |          |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                           |
|------------|------------------------------------------------------------------------------------|
| SITE CARD  | site=from "mouth" to 150m u/s                                                      |
| MORPHOLOGY | no channel visible after leaving wetland in Reach 5 of Dog C. Dry gully with local |
| CHANNEL    | no fluvial substrate, no banks, no water - not a creek                             |

# Site Card

03-Mar-98

| PROJECT                |                                                          |
|------------------------|----------------------------------------------------------|
| Project Name           | Burns Lake                                               |
| Stream Name (gaz.)     | CHESLATT A RIVER                                         |
| Project Watershed Code | 180-545300-00000-00000-0000-0000-000-000-000-000-000-000 |
| Project Code           | 06-FRAN-0000-0004-1998                                   |

| WATERSHED      |                                                          |         |                             |         |        |        |           |
|----------------|----------------------------------------------------------|---------|-----------------------------|---------|--------|--------|-----------|
| Gazetted Name  | Local Name                                               |         |                             |         |        |        |           |
| Watershed Code | 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 |         |                             |         |        |        |           |
| ILP            | 72006 Map 93F.072 Reach # 1                              |         |                             |         |        |        |           |
| Site #         | NID                                                      | Map     | UTM(Zone/East/North/Method) | Site Lg | Method | Access | Fish Crd? |
| 51             | 552                                                      | 93F.072 |                             | 85      | HC     | FT     | X         |
| Date           | 1997/10/05                                               | Time    | 12:10                       | Agency  | C016   | Crew   | SR/MJ     |

| CHANNEL           |                        |
|-------------------|------------------------|
| Channel Width (m) | HC 0.2 0.1 0.0 0.0 0.0 |
| Wetted Width (m)  | HC 0.1 0.0 0.0 0.0 0.0 |
| Pool Depth (m)    | MS 0.0 0.0 0.0 0.0 0.0 |
| Method I          | 4.0 3.5 C              |
| Method II         | C                      |
| Wb Depth          | 0.1 0.1 0              |
| Stage             | X L M H                |
| No Vis.Ch.        | Intermittent           |
| Dw                | X Tribs.               |

| WATER            |                          |
|------------------|--------------------------|
| FLOOD SIGNS      | Req #                    |
| Method: GE       | EMS                      |
| Temp. Method: T3 | Cond. Method: S4         |
| pH Method: P2    | Turb. T M L C Method: GE |

| COVER   |                     |
|---------|---------------------|
| COVER   | Total 10 %          |
| 80 20   | 1 1-20%             |
| LWD N   | INTREAM VEG N A M Y |
| DIST NA |                     |

# Site Card

03-Mar-98

LB SHP ☒ S ☐ F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ STG ☐ RIP ☒ S

RB SHP ☒ S ☐ F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ STG ☐ RIP ☒ S

## MORPHOLOGY

BED MATERIAL Dominant: ☐ F Subdom: ☒ NA  
D95: ☐ 1 D (cm): ☐ 1 Morph: ☐ RP

| DISTURBANCE INDICATORS | O1                       | B1                       | B2                       | B3                       | D1                       | D2                       | D3                       |
|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|  | C1                       | C2                       | C3                       | C4                       | C5                       | S1                       | S2                       | S3                       | S4                       | S5                       |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Pattern ☐ IR ☒  
Islands ☐ N ☒  
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L  
Coupling ☐ DC ☒  
Confinement ☐ UN ☒

## FEATURE

FSZ ☐ TRIB ☐ SC ☐ EC ☐ SWP/SLG ☐ EL/BV ☐

## PHOTO DOCUMENTATION

| Photo | Foc                                 | Lg                                  | Dir                                 | Comments                                                 |
|-------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------------|
| R 26  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1214 (lake in background) - no "creek" to photograph u/s |

## HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments |
|--------------------|------|---------|---------|----------|
| Rearing Habitat    |      |         |         |          |
| Spawning Habitat   |      |         |         |          |
| OverWinter Habitat |      |         |         |          |
| Cover              |      |         |         |          |
| Other              |      |         |         |          |

## WILDLIFE

## COMMENT

| Section    | Comments                                                                       |
|------------|--------------------------------------------------------------------------------|
| SITE CARD  | site=at lake in Reach 6 of Dog C to 85m u/s                                    |
| CHANNEL    | "creek" is not a creek by definition. Some water sampled at mouth then channel |
| MORPHOLOGY | slight gully with no water, no fluvial substrate, no banks                     |
| COVER      | no usable fish habitat                                                         |

## Site Card

03-Mar-98

LB SHP

☐

RIP

☐

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A STG

☐

RB SHP

☐

RIP

☐

Texture ☐ F ☐ G ☐ C ☐ B ☐ R ☐ A STG

☐

### MORPHOLOGY

BED MATERIAL

Dominant:

☐

Subdom:

☐

D95:

☐

D (cm):

☐

Morph:

☐

DISTURBANCE  
INDICATORS

O1

B1

B2

B3

D1

D2

D3

☐☐☐☐☐☐☐

C1

C2

C3

C4

C5

S1

S2

S3

S4

S5

☐☐☐☐☐☐☐☐☐☐

Pattern

☐

Islands

☐

Bars

☐ N☐ D☐ P☐ M☐ T☐ L

Coupling

☐

Confinement

☐

### FEATURE

FSZ

☐ TRIB☐ SC☐ EC☐ SWP/SLG☐ FL/BV

### PHOTO DOCUMENTATION

### HABITAT QUALITY

| Name               | Zone | Quality | Species | Comments |
|--------------------|------|---------|---------|----------|
| Rearing Habitat    |      |         |         |          |
| Spawning Habitat   |      |         |         |          |
| OverWinter Habitat |      |         |         |          |
| Cover              |      |         |         |          |
| Other              |      |         |         |          |

### WILDLIFE

### COMMENT

| Section   | Comments                                                             |
|-----------|----------------------------------------------------------------------|
| SITE CARD | site= at road x-ing                                                  |
| CHANNEL   | no defined channel - wet mossy ground with no available fish habitat |

END OF REPORT



## **Appendix V: Fish Collection Cards**

## Page 1

## B. Survey information

[illegible]

Survey Date 1997/09/05 to 1997/10/18 Agency C016  
Crew SR//MJ/ Fish Collection Permit  
General Comments  
VERY productive reach

### C. Station Identification and Conditions

| Site | Method | # | UTM Coordinates | Temp | Con | Vls | Turb |
|------|--------|---|-----------------|------|-----|-----|------|
| 43   | EF     | 6 |                 | 7.2  | 194 |     |      |

## D. Fish Summary

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Fish Acc |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|----------|
| 43   | EF   | 6 | 1   | RB      | J     |     | 17    | 50       | 93       | R        |

## E. Gear Specifications

| Site | Meth | # | H/P | D In  | T In | D Out | T Out | EF Sec | EF Lgth | EF Width | Encl | Nt Typ | Lgth | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
|------|------|---|-----|-------|------|-------|-------|--------|---------|----------|------|--------|------|------|------|-------|-----|-----|------|------|-----|------------|-------|
| 43   | EF   | 6 | 1   | 09/28 |      |       |       | 88     | 300     | 2.7      | 0    |        |      |      |      |       |     |     | 600  | 60   | 4   | Smith-Root | 12B   |

# Individual Fish Data

[illegible]

## Page 1

## B. Survey Information

|                                                     |            |                        |            |        |      |
|-----------------------------------------------------|------------|------------------------|------------|--------|------|
| Survey Date                                         | 1997/09/05 | to                     | 1997/10/18 | Agency | C016 |
| Crew                                                | SR/MJ/     | Fish Collection Permit |            |        |      |
| General Comments                                    |            |                        |            |        |      |
| still very productive - esp near road under cobbles |            |                        |            |        |      |

## D. Fish Summary

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Flash Ac |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|----------|
| 44   | EF   | 6 | 1   | RB      | J     |     | 16    | 44       | 105      | R        |
| 44   | EF   | 6 | 1   | RB      | A     |     | 1     | 156      |          | R        |

| E. Gear Specifications |      |   |     |       |      |       |       |        |         |          |      |         |      |      |      |       |     |     |      |      |     |            |       |
|------------------------|------|---|-----|-------|------|-------|-------|--------|---------|----------|------|---------|------|------|------|-------|-----|-----|------|------|-----|------------|-------|
| Site                   | Meth | # | H/P | D In  | T In | D Out | T Out | EF Sec | EF Lgth | EF Width | Encl | Int Typ | Lgth | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
| 44                     | EF   | 6 | 1   | 09/28 |      |       |       | 8      | 35      | 1.5      | O    |         |      |      |      |       |     |     | 600  | 60   | 4   | Smith-Root | 12B   |

[illegible]

## Page 1

Very productive, esp. in cobble cover

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Flsh Ac |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|---------|
| 45   | EF   | 6 | 1   | RB      | A     |     | 1     | 140      |          | R       |
| 45   | EF   | 6 | 1   | RB      | J     |     | 16    | 56       | 126      | R       |

| Site | Meth | # | H/P | D In  | T In | D Out | T Out | EF Sec | EF Lgth | EF Wdth | Encl | Nt Typ | Lgth | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
|------|------|---|-----|-------|------|-------|-------|--------|---------|---------|------|--------|------|------|------|-------|-----|-----|------|------|-----|------------|-------|
| 45   | EF   | 6 | 1   | 09/28 |      |       |       | 96     | 150     | 1.4     | 0    |        |      |      |      |       |     |     | 600  | 60   | 4   | Smith-Root | 12B   |

[illegible]

# Fish Data Collection Form

## A. Location Referencing

[illegible]

## B. Survey Information

| Survey Date                                             | 1997/09/05             | to | 1997/10/18 | Agency C016 |
|---------------------------------------------------------|------------------------|----|------------|-------------|
| Crew                                                    | SR/MJ/                 |    |            |             |
| General Comments                                        | Fish Collection Permit |    |            |             |
| Marginal habitat-wetland. Fair in channelized portions. |                        |    |            |             |

### C. Station Identification and Conditions

| Site | Method | # | UTM Coordinates | Temp | Con | Vis | Turb |
|------|--------|---|-----------------|------|-----|-----|------|
| 46   | EF     | 6 |                 | 8.8  | 285 |     |      |

#### D. Fish Summary

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Fish Ac |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|---------|
| 46   | EF   | 6 | 1   | NFC     |       |     |       |          |          |         |

## E. Gear Specifications

| Site | Meth | # | H/P | T In  | D In | T Out | EF Sec | EF Lgth | EF Width | Encl | Nt Typ | Lgth | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
|------|------|---|-----|-------|------|-------|--------|---------|----------|------|--------|------|------|------|-------|-----|-----|------|------|-----|------------|-------|
| 46   | EF   | 6 | 1   | 09/28 |      |       | 195    | 85      | 0.7      | 0    |        |      |      |      |       |     |     | 600  | 60   | 4   | Smith-Root | 12B   |

# F. Individual Fish Data

[illegible]

## Page 1

## B. Survey Information

|                                           |               |                        |
|-------------------------------------------|---------------|------------------------|
| Survey Date 1997/09/05                    | to 1997/10/18 | Agency C016            |
| Crew SR//MJJ                              |               | Fish Collection Permit |
| General Comments                          |               |                        |
| Only PCC captured - RB presence inferred. |               |                        |

## D. Fish Summary

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Flsh Acc |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|----------|
| 47   | EF   | 6 | 1   | PCC     | J     |     | 1     | 95       |          | R        |

[illegible]

| Length | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
|--------|------|------|-------|-----|-----|------|------|-----|------------|-------|
|        |      |      |       |     |     | 700  | 60   | 4   | Smith-Root | 12B   |

1980-1981  
 1982-1983  
 1984-1985  
 1986-1987  
 1988-1989  
 1990-1991  
 1992-1993  
 1994-1995  
 1996-1997  
 1998-1999  
 2000-2001  
 2002-2003  
 2004-2005  
 2006-2007  
 2008-2009  
 2010-2011  
 2012-2013  
 2014-2015  
 2016-2017  
 2018-2019  
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 2240-2241  
 2242-2243  
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 2252-2253  
 2254-2255  
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 256

| Touch # | Gen Str | Gen Smp # | Comments | Roll | Fr |
|---------|---------|-----------|----------|------|----|
|---------|---------|-----------|----------|------|----|

# Fish Data Collection Form

## A. Location Referencing

|                          |                                                    |                                   |
|--------------------------|----------------------------------------------------|-----------------------------------|
| Gazetted Name            |                                                    | Allias                            |
| Watshed Cod              | 000-000000-000000-0000-0000-0000-0000-0000-0000-00 | WBID #                            |
| Reach # 1                | Interim Locational ID:                             | Project ID 06-FRAN-3020-0002-1998 |
| (BCGS/NTS) Map # 93F.072 |                                                    | Locational Point 72006            |

## B. Survey Information

|                                                                                                             |            |                        |            |        |      |
|-------------------------------------------------------------------------------------------------------------|------------|------------------------|------------|--------|------|
| Survey Date                                                                                                 | 1997/09/05 | to                     | 1997/10/18 | Agency | C016 |
| Crew                                                                                                        | SR/IMJ     | Fish Collection Permit |            |        |      |
| General Comments                                                                                            |            |                        |            |        |      |
| No water/channel after 10m. Sampled first 10m which may have just been lake influence. No fish hal present. |            |                        |            |        |      |

### C. Station Identification and Conditions

| Site | Method | # | UTM Coordinates | Temp | Con | Vls | Turb | Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Flsh Act |
|------|--------|---|-----------------|------|-----|-----|------|------|------|---|-----|---------|-------|-----|-------|----------|----------|----------|
| 51   | EF     | 6 |                 |      |     |     |      | 51   | EF   | 6 | 1   | NFP     |       |     |       |          |          |          |

## D. Fish Summary

| Site | Meth | # | H/P | Species | Stage | Age | Tot # | Min Lgth | Max Lgth | Fish Ac |
|------|------|---|-----|---------|-------|-----|-------|----------|----------|---------|
| 51   | EF   | 6 | 1   | NFP     |       |     |       |          |          |         |

## E. Gear Specifications

| Site | Meth | # | H/P | D In  | T In | D Out | T Out | EF Sec | EF Lgth | EF Width | Encl | Nt Typ | Lgth | Dpth | Mesh | IN Sz | Set | Hab | Volt | Freq | Pul | Make       | Model |
|------|------|---|-----|-------|------|-------|-------|--------|---------|----------|------|--------|------|------|------|-------|-----|-----|------|------|-----|------------|-------|
| 51   | EF   | 6 | 1   | 10X05 |      |       |       | 28     | 10      | 0.1      | O    |        |      |      |      |       |     |     | 700  | 60   | 4   | Smith-Root | 12B   |

## F. Individual Fish Data

[illegible]

**Appendix VI: Lake Table**







Lake Table Information Extracted from FDIS  
(Babine Stream Inventory 1997)

| Relevant Report/<br>Watershed | Project WS Code | Name           | ILP Map# | ILP   | Reach<br># | Basin<br>Type | Group | Class | Genesis | Area  | Mag | BGC | Wland | Simple | Vouch | Zone | Eastling | Northling | Comments                                                          |
|-------------------------------|-----------------|----------------|----------|-------|------------|---------------|-------|-------|---------|-------|-----|-----|-------|--------|-------|------|----------|-----------|-------------------------------------------------------------------|
| ILP 52001                     | 480-000000      | Henrietta      | 93K 052  | 52002 | 4          | 3             | CA    | P     | OL      | 7     | 0   | 0BS | 1     | N      |       | 10   | 326200   | 6050130   | orig called lake - BV pond                                        |
| Henrietta                     | 480-000000      | ILP 52001      | 93K 052  | 52001 | 5          | 3             | CA    | P     | GL      | 9.12  | 1   | 0BS |       | N      |       | 10   | 327870   | 6049280   | above steep gradient, shallow, inlet/outlets planned for sampling |
| Henrietta                     | 480-000000      |                | 93K 035  | 35007 | 6          | 1             | CA    | P     | GL      | 0.46  | 1   | 0BS |       | N      |       | 10   | 366300   | 6024980   | primary isolated by gradient, small, headwater lake (<0.5ha)      |
| Henrietta                     | 480-000000      |                | 93K 045  | 35037 | 5          | 3             | CA    | P     | GL      | 0.72  | 0   | 0BS |       | N      |       | 10   | 362200   | 6030790   | small headwater lake                                              |
| Henrietta                     | 480-000000      |                | 93K 035  | 35029 | 8          | 4             | CA    | S     | OL      | 0.46  | 4   | 0BS |       | N      |       | 10   | 363670   | 6028140   | small (<0.5ha)                                                    |
| Henrietta                     | 480-000000      |                | 93K 035  | 35029 | 10         | 4             | CB    | S     | OL      | 0.71  | 2   | 0BS |       | N      |       | 10   | 363600   | 6028350   | small, beaver pond                                                |
| Henrietta                     | 480-000000      |                | 93K 035  | 35040 | 3          | 3             | CA    | S     | OL      | 0.43  | 1   | 0BS |       | N      |       | 10   | 362150   | 6026700   | small (<0.5ha)                                                    |
| Henrietta                     | 480-000000      |                | 93K 035  | 35042 | 1          | 3             |       |       | GL      | 0.4   | 0   | 0BS |       | N      |       | 10   | 361900   | 6027610   | it and only reach - accessible                                    |
| Henrietta                     | 480-000000      |                | 93K 035  | 35043 | 1          | 3             |       |       | GL      | 3     | 0   | 0BS |       | N      |       | 10   | 361970   | 6027670   | it and only reach - accessible                                    |
| Henrietta                     | 480-000000      |                | 93K 035  | 35048 | 5          | 3             | AE    | S     | OL      | 9.22  | 8   | 0BS |       | N      |       | 10   | 360340   | 6030040   | RB presence confirmed upstream                                    |
| Henrietta                     | 480-000000      |                | 93K 044  | 34010 | 6          | 3             | AE    | S     | OL      | 26.9  | 2   | 0BS |       | N      |       | 10   | 355900   | 6031420   | RB presence confirmed at outlet reach                             |
| Henrietta                     | 480-000000      |                | 93K 044  | 44082 | 6          | 3             | AG    | S     | OL      | 11.8  | 1   | 0BS |       | N      |       | 10   | 355010   | 6030590   | outlet planned for survey                                         |
| Henrietta                     | 480-000000      |                | 93K 044  | 44082 | 5          | 3             | AG    | S     | OL      | 4.1   | 0   | 0BS |       | N      |       | 10   | 354300   | 6030910   | similar to planned lake 34010 reach 6                             |
| Henrietta                     | 480-000000      |                | 93K 045  | 45018 | 3          | 3             | AI    | S     | GL      | 4.05  | 6   | 0BS |       | N      |       | 10   | 357410   | 6030970   | RB presence confirmed upstream                                    |
| Henrietta                     | 480-000000      |                | 93K 045  | 45018 | 7          | 3             | AJ    | S     | GL      | 6.15  | 3   | 0BS |       | N      |       | 10   | 358020   | 6031170   | RB presence confirmed upstream                                    |
| Henrietta                     | 480-000000      |                | 93K 045  | 45023 | 2          | 3             | AK    | S     | GL      | 1.76  | 1   | 0BS |       | N      |       | 10   | 357280   | 6031930   | easy access from ILP 45018 reach 9                                |
| Henrietta                     | 480-000000      |                | 93K 044  | 44085 | 2          | 3             | AL    | S     | GL      | 4.52  | 0   | 0BS |       | N      |       | 10   | 350430   | 6031300   | isolated from Henrietta Creek                                     |
| Henrietta                     | 480-000000      |                | 93K 044  | 44087 | 3          | 1             | CA    | P     | GL      | 1.53  | 0   | 0BS |       | N      |       | 10   | 356520   | 6033940   | small headwater lake above steep gradient                         |
| Henrietta                     | 480-000000      | Henrietta Lake | 93K 035  | 24001 | 9          | 3             | AA    | P     | GL      | 50.99 | 31  | 0BS |       | N      |       | 10   | 357670   | 6028720   | previously surveyed                                               |
| Henrietta                     | 480-000000      |                | 93K 044  | 24001 | 11         | 3             | AB    | S     | GL      | 13.79 | 5   | 0BS |       | N      |       | 10   | 356440   | 6031850   | RB presence confirmed in outlet reach                             |
| Henrietta                     | 480-000000      |                | 93K 044  | 24001 | 18         | 3             | AC    | S     | GL      | 12.38 | 4   | 0BS |       | N      |       | 10   | 355300   | 6033470   | RB presence confirmed in outlet reach                             |
| Henrietta                     | 480-000000      |                | 93K 044  | 24001 | 21         | 3             | AD    | S     | GL      | 2.88  | 0   | 0BS |       | N      |       | 10   | 354740   | 6034630   | small headwater lake                                              |
| Four Mile                     | 480-000000      |                | 93K 044  | 44039 | 3          | 3             | CA    | S     | OL      | 2.88  | 6   | 0BS |       | N      |       | 10   | 351440   | 6035400   | inlet/outlets planned for sampling                                |
| Four Mile                     | 480-000000      |                | 93K 044  | 44039 | 6          | 3             | CB    | S     | OL      | 0.33  | 0   | 0BS |       | N      |       | 10   | 353520   | 6033760   | small headwater lake (<0.5ha)                                     |
| Four Mile                     | 480-000000      |                | 93K 044  | 44039 | 4          | 3             | CA    | S     | GL      | 2.18  | 0   | 0BS |       | N      |       | 10   | 352570   | 6031850   | small headwater lake                                              |
| Four Mile                     | 480-000000      |                | 93K 044  | 44081 | 5          | 3             | CA    | S     | GL      | 9.56  | 2   | 0BS |       | N      |       | 10   | 353760   | 6030550   | similar to planned survey lake (24001 reach 16)                   |
| Four Mile                     | 480-000000      |                | 93K 034  | 34044 | 2          | 8             |       |       | GL      | 5.5   | 0   | 0BS |       | N      |       | 10   | 353060   | 6028190   |                                                                   |
| Four Mile                     | 480-000000      |                | 93K 034  | 34049 | 2          | 8             |       |       | GL      | 2.59  | 0   | 0BS |       | N      |       | 10   | 353060   | 6028190   |                                                                   |
| Four Mile                     | 480-000000      |                | 93K 034  | 34049 | 2          | 3             |       |       | OL      | 0.94  | 2   | 0BS |       | N      |       | 10   | 354700   | 6025010   | small headwater lake (<0.5ha)                                     |
| Four Mile                     | 480-000000      |                | 93K 034  | 44034 | 13         | 8             | CA    | P     | GL      | 0.78  | 0   | 0BS |       | N      |       | 10   | 333160   | 6047810   | no fish use above falls in reach 2 dy                             |
| Deep                          | 480-000000      |                | 93K 053  | 53001 | 7          | 8             | CA    | S     | GL      | 9.0   | 2   | 0BS |       | S      |       | 10   | 333160   | 6047810   |                                                                   |