

Appendix V5-4H

Doris North Project Aquatic Studies 2005



DORIS NORTH PROJECT AQUATIC STUDIES 2005



Engineering Earth's Development, Preserving Earth's Integrity



DORIS NORTH PROJECT

AQUATIC STUDIES

2005

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Cover Photo: Roberts Outflow, 2005

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Executive Summary

Miramar Hope Bay Limited (MHBL) proposes to construct and operate a new underground gold mine (“Doris North Project”) in the West Kitikmeot Region of Nunavut. The project is located 685 km northeast of Yellowknife and 125 km southwest of Cambridge Bay. The mine is on Inuit-owned land, approximately 5 km south of the Arctic Ocean.

The objective of the 2005 aquatic studies program was to address data gaps from the 2004 Nunavut Impact Review Board (NIRB) hearings and the 2005 “No Net Loss” Plan (NNLP; Golder 2005a). The issues addressed in the 2005 field program included seasonal monitoring of discharge in Doris, Roberts and Little Roberts outflows; lake level monitoring in Doris, Tail, and Roberts lakes; water quality monitoring in selected lakes and streams in the study area; the use of the Roberts Lake system by Arctic char; fish use of near-shore areas in Doris, Pelvic and Roberts lakes; and fish use of streams and ponds in the Doris North Project area.

Hydrology

Lake water level and stream discharge monitoring in 2005 showed that the bulk of runoff was due to snowmelt. Doris, Tail and Roberts lakes water surface elevations and Doris, Tail, Roberts and Little Roberts outflow discharges were monitored from the end of June to mid-September. Tail Lake water surface elevation was also monitored over the winter of 2004-2005. Measured lake levels indicate that spring melt began in the upper watershed approximately 28 May and peak stream discharge occurred approximately 18 June. Measured water yields were approximately 53 mm for the Tail Lake watershed and 60 mm for the Doris Lake and Roberts Lake watersheds. Annual water yields would be slightly higher because the measured yields are based on partial hydrographs.

Snow course surveys were undertaken in May 2005 to measure the snowpack available to contribute to spring runoff. Twenty-two survey plots on seven terrain types were measured and the mean snow water equivalent depth was 66 mm.

Rainfall measurements at the Doris North meteorological station indicated that 79.5 mm of rain fell in 2005 in the period 1 May to 19 September. Previously reported rainfall measurements for 2004 have been revised to correct a calculation error and indicate that 50.3 mm of rain fell in the period 1 May to 30 September. This does not include rainfall events that occurred during freezing conditions or trace rainfall events that may not have been recorded.

Temperature, relative humidity and solar radiation data recorded at the Doris North meteorological station were used to estimate lake evaporation for the Doris and Tail Lake watersheds. The estimated values for 2005 were 261 mm for Doris Lake and 265 mm for Tail Lake.

Rainfall in 2005 was close to the long-term average, whereas snow accumulation was below normal.

Physical Limnology and Water Quality

The lakes sampled in 2005 were generally isothermal and uniformly mixed during the open-water season. Roberts Bay exhibited weak thermal stratification in July and August. In all lake and stream sampling locations and throughout the open-water season, dissolved oxygen concentrations met the CCME guideline for the protection of aquatic life. However, during the July and August sampling events in Tail Outflow, dissolved oxygen concentrations were below the guideline for supporting early life stages of fish, likely due to the very low flow and the high organic component of the sediments. The dissolved oxygen concentrations in all other sampling locations met the CCME guideline for supporting early life stages of fish.

At various times during the open-water season, total aluminum concentrations exceeded CCME guidelines in Roberts and Doris lakes, Doris, Roberts and Little Roberts outflows, and were elevated in Little Roberts Lake. Selenium concentrations exceeded CCME guidelines for the protection of aquatic life in freshwater on the mid July and mid August sampling dates in Doris Lake, in mid August in Little Roberts Lake, as well as in Doris Outflow in September and Little Roberts Outflow in mid-August and September. Cadmium, copper, lead and nickel exceeded CCME guidelines in the bottom samples of Doris Lake during the mid-July sampling event (possibly due to contamination by sediments), and copper exceeded the CCME guideline in Doris Outflow during the August sampling event. Iron exceeded the CCME guideline in Doris, Roberts, Little Roberts and Tail outflows on various sample dates.

Fish Communities

In total, 3731 fish representing 10 species were encountered in the Doris North Project area during fisheries surveys conducted in 2005. Fish sampling was conducted in nine lakes, 20 streams, and in the marine environment of Roberts Bay. Overall, the most common fish species captured was Saffron cod (62%), followed by Arctic char (11%), ninespine stickleback (10%), and lake trout (9%). In lakes, the most common fish species captured were Arctic char (30%), ninespine stickleback (29%) and lake trout (25%). In streams, the most common fish species were Arctic char (48%), lake trout (24 %) and cisco (21%).

Lake Communities

Fish sampling was conducted in nine lakes; these included Roberts, Doris, Tail and Pelvic lakes, Tailings Alternate Site 2, and four ponds near Quarry Site 2 and Site 3. In total, 628 fish representing six species were captured. Fish were not captured in the Quarry 2 or Quarry 3 ponds. Ninespine stickleback was the dominant species in the catch (57%), followed by lake trout (30%), Arctic char (11%), cisco (1%) and lake whitefish ($n=1$).

In total, 219 fish were captured in Roberts Lake. Lake trout was the dominant species captured (65%) followed by Arctic char (32%) and ninespine stickleback (1%). Of the 145 fish captured in Doris Lake, 66% were ninespine stickleback, 30% were lake trout, 4% were cisco, and one lake whitefish also was captured. Two fish were captured in Pelvic Lake; these included one cisco and one ninespine stickleback. Three lake trout were captured in Tail Lake and 259 ninespine stickleback were captured in Tailings Alternate Site 2.

Stream Communities

Fish sampling was conducted in 20 streams, which included Roberts, Pelvic, Doris, Ogama and Tail outflows, and tributaries to Roberts Lake ($n=11$) and Pelvic Lake ($n=3$). In total, 661 fish representing six species were captured. Fish were captured in all sampled outflows and in five of the 11 Roberts Lake tributaries.

In total, 381 fish were captured in Roberts Outflow. Arctic char (73%), followed by lake trout (25%), ninespine stickleback (1%) and one lake whitefish were captured in Roberts Outflow. In the tributaries to Roberts Lake, 71 fish were captured. Arctic char (45%) and lake trout (35%) were the co-dominant species, and one ninespine stickleback was also captured. In total, 196 fish were captured in Pelvic Outflow. Cisco (71%) was the dominant species followed by lake trout (17%), lake whitefish (9%) and Arctic char (3%). Eight fish were captured in Ogama Outflow, including five ninespine stickleback, two lake trout and one lake whitefish. Three lake trout were captured in Doris Outflow and two ninespine stickleback were captured in Tail Outflow.

Marine Communities

In Roberts Bay, 2442 fish representing eight species were captured using a variety of sampling techniques. Saffron cod was the dominant species in the catch (94%), followed by Arctic flounder (5%). The remaining 1% of the catch was composed of Arctic char, Pacific herring, lake trout, starry flounder, lake whitefish and fourhorn sculpin.

Roberts Outflow

Two fish fences and traps were installed above and below the boulder garden located in Roberts Outflow between 3 August and 12 September 2005. These fish fences were installed to determine the number of Arctic char migrating from the ocean to Roberts Lake, where they overwinter, and where a portion of the population likely spawns. Backpack electrofishing was also used to assess small fish use in the boulder garden area of Roberts Outflow. In total, 381 fish representing four species were caught in Roberts Outflow. Arctic char was the predominant species in the overall catch (73%), followed by lake trout (25%).

The number of Arctic char entering the trap on a daily basis varied greatly. The largest number of fish that passed through the lower trap in a given day was 18 fish. Of the fish that were captured in Roberts Outflow, recaptures from previous years accounted for 21% of the Arctic char catch and 44% of the lake trout catch.

During the open-water season of 2005, flows through the boulder garden section were high. Of the 179 Arctic char captured in the lower trap, 62 were recaptured in the upper trap. The total number of Arctic char that were not recaptured at the upstream trap in 2005 was 117 (65%). Of the 80 lake trout captured at the lower trap, 41 passed through the upper trap. The total number of lake trout that were not recaptured at the upstream trap was 39 (49%). Comparison of hydrology data collected during 2005 in Roberts Outflow and the number of Arctic char and lake trout that were able to migrate through the boulder garden suggests that stream flows did not hinder migration of fish.

No fish were observed stranded in the boulder garden during 2005. A portion of the Arctic char and lake trout that were captured in the lower trap, but not at the upper trap, were likely predated upon by wildlife (i.e., grizzly bears and Arctic foxes) while the fish were traveling through the boulder garden. A portion of the fish may have passed by the upper trap when the upper fence collapsed, or passed through an unidentified gap in the upstream fence near the shore or trap. Also, some of the fish may have moved back downstream when the lower fence was down, and they may have moved to other systems to overwinter.

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Appendix C	Fish Data

1.0 INTRODUCTION

1.1 GENERAL

Miramar Hope Bay Limited (MHBL) proposes to construct and operate a new underground gold mine (“Doris North Project”) in the West Kitikmeot Region of Nunavut. The project is located 685 km northeast of Yellowknife and 125 km southwest of Cambridge Bay (Figure 1.1). The mine is on Inuit owned land, approximately 5 km south of the Arctic Ocean. The nearest communities are Umingmaktok, located 65 km to the west and Bathurst Inlet located 110 km to the southwest.

Environmental baseline studies within the Doris North zone were carried out in 1995 (Klohn Crippen 1995), 1996 (Rescan 1997), 1997 (Rescan 1998), 1998 (Rescan 1999), and 2000 (Rescan 2001). All data collected up to 2000 were summarized in a data compilation report (RL&L/Golder 2002). Additional studies were conducted in 2002, 2003 and 2004.

In 2002, the main focus of the aquatic studies was to investigate fish populations in Roberts Lake and in the near-shore areas of Roberts Bay (RL&L/Golder 2003a).

The 2003 field season focused on monitoring use of the Roberts Lake system by Arctic char; assessing fish use of near-shore habitat in Doris, Roberts and Little Roberts lakes and Roberts Bay; bathymetry and water quality in selected lakes; habitat mapping in Roberts Lake; and seasonal monitoring of discharge and water temperature in selected streams (RL&L/Golder 2003b).

The 2004 field season focused on continued monitoring of use of the Roberts Lake system by Arctic char; assessing large and small fish use of near-shore habitat in Tail and Roberts lakes; water quality sampling in selected lakes and streams (Roberts, Little Roberts, Doris, and Tail lakes and Little Roberts, Doris, and Tail outflows and Roberts Bay); snowcourse surveys and meteorological monitoring of rainfall and other parameters in the Doris Lake watershed; and seasonal monitoring of water surface elevations on Doris, Tail and Roberts lakes and discharge in Doris, Tail, Roberts and Little Roberts outflows (Golder 2005b).

In 2005, Miramar Hope Bay Limited retained Golder Associates Ltd. to expand the baseline data collected during the previous studies and to address data gaps identified during the Nunavut Impact Review Board (NIRB) hearings in July 2004 and identified in the submission of the “No Net Loss” Plan (NNLP) Revision 4 to Department of Fisheries and Oceans (DFO) in May 2005. The specific objectives of the 2005 field program included:



100 0 100
SCALE KILOMETRES

REFERENCE

BASE MAP PROVIDED BY RESCAN,
FEBRUARY 17, 1998



TITLE

HOPE BAY BELT PROJECT LOCATION MAP



PROJECT 03-1370-007.3000			FILE No.	Project Location
DESIGN	JP	12/07/02	SCALE	1:4000000
CADD	PSR	18/11/03	REV.	0
CHECK	AL		FIGURE: 1.1	
REVIEW				

- sampling of water quality in selected lakes and streams (Roberts, Little Roberts, Doris, and Tail lakes and Roberts, Little Roberts, Doris, and Tail outflows and Roberts Bay), with particular emphasis on Doris Lake and Doris outflow to provide additional data for use in the water management plan;
- snowcourse surveys in the Doris Lake watershed;
- meteorological monitoring of rainfall and other parameters to support lake evaporation estimates in the Doris Lake watershed; and,
- seasonal monitoring of water surface elevations on Doris, Tail and Roberts lakes and discharge in Doris, Tail, Roberts and Little Roberts outflows.
- continued monitoring of use of the Roberts Lake system by Arctic char;
- assessing small fish use of near-shore habitat in Roberts Lake, Pelvic Lake and Doris Lake;
- assessing small fish use of Roberts, Pelvic and Tail outflows, Roberts Lake tributaries and Pelvic Lake tributaries;
- assessing fish use of Roberts Bay in the area of the proposed jetty
- assessing fish use of a potential alternate tailings impoundment site, Tailings Alternate Site 2 (TA2);
- assessing small fish use of four small ponds near the proposed rock quarry blasting sites; and
- collecting bathymetry data for six proposed rearing enhancement sites in Doris Lake and for Tailings Alternate Site 2 (TA2).

The field program was conducted between 4 May and 16 September 2005. The results are summarized for each study component in the following sections.

1.2 SAMPLING PROGRAM IN 2005

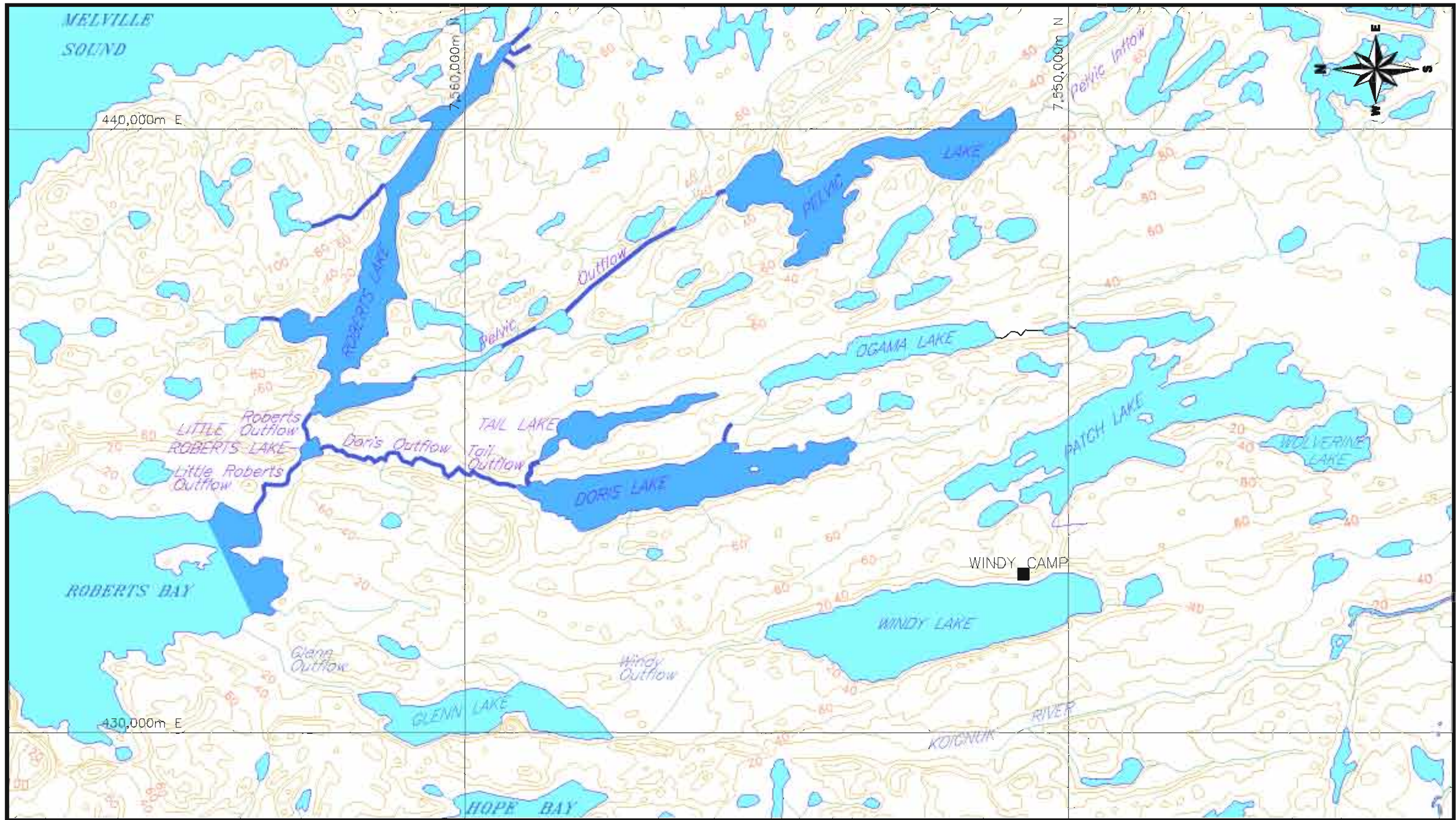
Lakes that were sampled as part of the baseline studies within the project area in 2005 included Roberts, Doris, Tail and Pelvic lakes (Figure 1.2). Also sampled were Roberts, Little Roberts, Doris, Tail, Ogama and Pelvic outflows, as well as several small tributaries to Roberts and Pelvic lakes. The marine environment of Roberts Bay was sampled near the mouth of Little Roberts Outflow as the main receiving waterbody downstream of the proposed mining development. An alternate tailing pond (Tailings Alternate Site 2) and four small ponds near the proposed blasting areas were also sampled to assess small fish use. Data collection sites and sampling methods used in 2005 are summarized in Table 1.1.

Table 1.1 Doris North Project aquatic sampling program, 2005.

Waterbody	Discharge/ Water Level	Water Quality	Bathymetry	Fish Populations					
				Angling	Fish Fence	Fyke Net	Electro- fish	Minnow Trap	Beach Seine
Doris Lake	√	√	√	√			√	√	
Tail Lake	√	√		√					
Roberts Lake	√	√		√		√	√		
Pelvic Lake							√		
Tailings Alternate Site 2			√				√	√	
Rock Quarry 2 ponds							√	√	
Rock Quarry 3 ponds							√	√	
Doris Outflow	√	√		√			√		
Tail Outflow	√	√					√		
Roberts Outflow	√	√			√		√		
Little Roberts Outflow	√	√							
Ogama Outflow							√		
Pelvic Outflow						√	√		
Roberts Lake Tributaries	√						√		
Pelvic Lake Tributaries							√		
Roberts Bay		√		√		√			√

1.3 OVERVIEW OF REPORT

To facilitate subsequent integration of the 2005 data with the previous data collected, the format and organization of the present report follows closely the outline used in the previous reports (RL&L/Golder 2002, 2003a and 2003b, Golder 2005b). As such, this report is organized by major disciplines, with a separate discussion for each sampled waterbody. Environmental disciplines are presented as separate sections in the following order: stream discharge, water quality, fish communities and fish habitat. All data and analytical results are provided as appendices at the end of the report



LEGEND

Sampled Lakes or Ocean

Sampled Stream



1.2 0 1.2
Scale Km

NOTE : CONTOUR INTERVAL 20 m

REFERENCE
BASE MAP PROVIDED BY RESCAN,
22 JANUARY 2001

TITLE
WATERBODIES SAMPLED IN THE DORIS NORTH PROJECT AREA, 2005

PROJECT No. 05-1973-014		FILE No. 1730498	
DESIGN	AB	25/10/04	SCALE As shown
CADD	SG	25/10/04	REV. D
CHECK	AB	25/11/04	
REVIEW			

Golder Associates
Sustainable. Alberta.

FIGURE: 1.2

Image used
 Drawing plot and name: C:\Users\mcmiller\Documents\Projects\05-1973-014\05-1973-014-1730498.dwg
 File: 1730498.dwg

2.0 HYDROLOGY

2.1 METHODS

2.1.1 Hydrometry

Hydrographs of Doris Lake and outflow, Tail Lake and outflow, Roberts Lake and outflow and Little Roberts Lake outflow at the Doris North project were derived using the following methods:

- At each hydrometric station, a KPSI 730-series solid-state pressure transducer and Optimum Instruments DD-320 data logger were installed. Each data logger was programmed to record water pressure measurements on a 15-minute interval. Each station was referenced to an elevation benchmark.
- Transducers at the Doris Lake (H74) and Tail Lake (H75) stations were overwintered from 2004. The transducer and thermistor at each of these locations were installed below the bottom of the lake ice to provide lake level and temperature readings over the course of the year.
- Transducers at all other stations were installed during open water conditions in the spring of 2005. Access to these stations was provided during the last week of June 2005, which was after the ice-off and peak discharge date.
- During the first and subsequent data logger downloads, the water surface elevations were surveyed from the permanent benchmark, and the pressure transducer readings were recorded.
- During the first and subsequent visits to stations with flowing water, stream discharge measurements were performed according to the Water Survey of Canada standard described by Terzl et al. (1994). The data loggers at each station were downloaded periodically.
- During the last site visit of 2005, the pressure transducer and data logger were removed from the flowing water stations to prevent ice damage over the winter. The pressure transducers and thermistors at each of Doris Lake (H74) and Tail Lake (H75) were left in place to allow them to record measurements over the winter.
- When all data were available for flowing water stations, the record of water surface elevation versus discharge was used to derive a stage-discharge rating curve for each station. Where 2003 and 2004 data were available, these were also used to develop the rating curve. This rating curve was then applied to the continuous record of water surface

elevations, as measured by the pressure transducer and recorded by the data logger at each station, to derive a continuous record of discharges.

- For stations with data gaps (Doris Lake and Little Roberts Lake Outflow) and for watercourses prior to the spring 2005 station installation, these data were derived based on available data from other stations in the Doris North area.

2.1.2 Snow Course Surveys

Snow course surveys were undertaken on 9 and 12 May 2005, using the following methods:

Plot Selection

Plot locations within the Doris Lake watershed were selected on the basis of terrain type. These included:

- Open Lake (flat areas on lakes);
- Exposed Lowland (flat areas at the top of slopes);
- Sheltered Lowland (flat areas at the toe of slopes); and
- North, East, South and West Aspects (slopes facing these directions).

The purpose of this was to identify differences in snow accumulation between terrain types. As much as possible, the locations used in 2004 were sampled again in 2005.

Snow Depth Measurement

At each plot, 30 depth measurements were made at randomly selected locations on a large circle. These depth measurements were taken by inserting a metal metre stick into the snowpack and reading the snowline mark.

Snow Density Measurement

Three density measurements were recorded at each plot, using a snow density sampler. The sampler was carefully inserted to avoid compacting the snowpack. The snow depth was read on the tube, when the corer reached the soil surface. The corer was then inserted/twisted more deeply into the ground to ensure that a plug of soil was extracted with the sampler to prevent granular snow from falling out. After extracting the sampler and carefully removing the soil plug, the sampler weight was measured with and without the snow core, to allow the weight of snow and snow water equivalent to be calculated.

2.1.3 Rainfall

The Doris North meteorological station is located near the Doris Lake hydrometric station and has sensors to measure the following parameters:

- air temperature;
- relative humidity;
- vapour pressure;
- global solar radiation;
- wind speed and direction; and
- rainfall.

Rainfall at this station was recorded using a tipping bucket rain gauge, and the rainfall record was used to derive total daily and monthly rainfall during the summer months.

2.1.4 Lake Evaporation

The program WREVAP (Morton et al. 1985) was used to estimate the lake evaporation from Doris and Tail lakes. The WREVAP model requires accurate temperature, humidity and solar radiation data from a station with surroundings similar to the area of interest. These data were available from the Doris North meteorological station, described in Section 2.1.3. The program is not recommended for use near “sharp environmental discontinuities, such as a high-latitude coastline... because of advection of heat and water vapour in the lower layers of the atmosphere.” However, the program documentation indicates “that the effects of such advections can decrease to near zero with [in] 300 m, but this finding may not be generally applicable.” Doris Lake is approximately 4 km from the Roberts Bay coastline at its closest point, so it is assumed that the WREVAP model is applicable. Lake evaporation was calculated using the CRLE (Complementary Relationship Lake Evaporation) model component.

2.2 HYDROMETRY

2.2.1 Doris Lake and Doris Lake Outflow

Factsheets describing the locations of the hydrometric site and equipment installed at Doris Lake (Station H74) and Doris Lake outflow (Station H71) are provided in Appendix A. The appendix also contains: stage-discharge data; the derived stage-discharge rating curve based on 2003, 2004 and 2005 data; tabulated mean daily discharge and water level data; and manual discharge measurement data and calculation sheets.

The Doris Lake hydrometric station was visited six times during the 2005 field program, and a continuous hydrograph was derived for the period 27 June to 17 September based on the Doris Lake outflow data. Water surface elevations between 8 June and 27 June were estimated based on data collected at Tail Lake. The Doris Lake outflow hydrometric station was visited seven times during the 2005 field program, and a continuous hydrograph was derived for the period 27 June to 17 September. Discharges between 8 June and 27 June were derived based on the estimated lake water surface elevations, and discharges between 17 September and 30 September were estimated based on linear recession to freeze-up. Details of each site visit are provided in Table 2.1, and the hydrographs from the two stations are presented in Figures 2.1 and 2.2.

Table 2.1 Site visits to Doris Lake and Doris Lake Outflow hydrometric stations, 2005.

Date	Activities	Lake	Water Level (geodetic)	Outflow	Discharge
27 June	Downloaded data from Doris Lake logger; ice on lake but free water conditions. Installed transducer in Doris Lake Outflow; free of ice. Surveyed water level and measured discharge at Doris Lake outflow.	✓	21.801 m	✓	1.534 m ³ /s
28 June	Removed Doris Lake logger to replace a malfunctioning station.	✓			
18 July	Surveyed water level and measured discharge at Doris Lake outflow.			✓	0.803 m ³ /s
22 July	Reinstalled Doris Lake logger.	✓	21.646 m		
5 August	Measured discharge at Doris Lake outflow.			✓	0.572 m ³ /s
21 August	Measured discharge at Doris Lake outflow.			✓	0.447 m ³ /s
1 September	Measured discharge at Doris Lake outflow.			✓	0.433 m ³ /s
15 September	Checked Doris lake transducer. Surveyed water level and measured discharge at Doris Lake outflow.	✓	21.485 m	✓	0.343 m ³ /s
16 September	Downloaded data from Doris Lake logger.	✓			
17 September	Removed Doris Lake outflow transducer for overwintering. Downloaded data from Doris Lake logger.	✓		✓	n/a

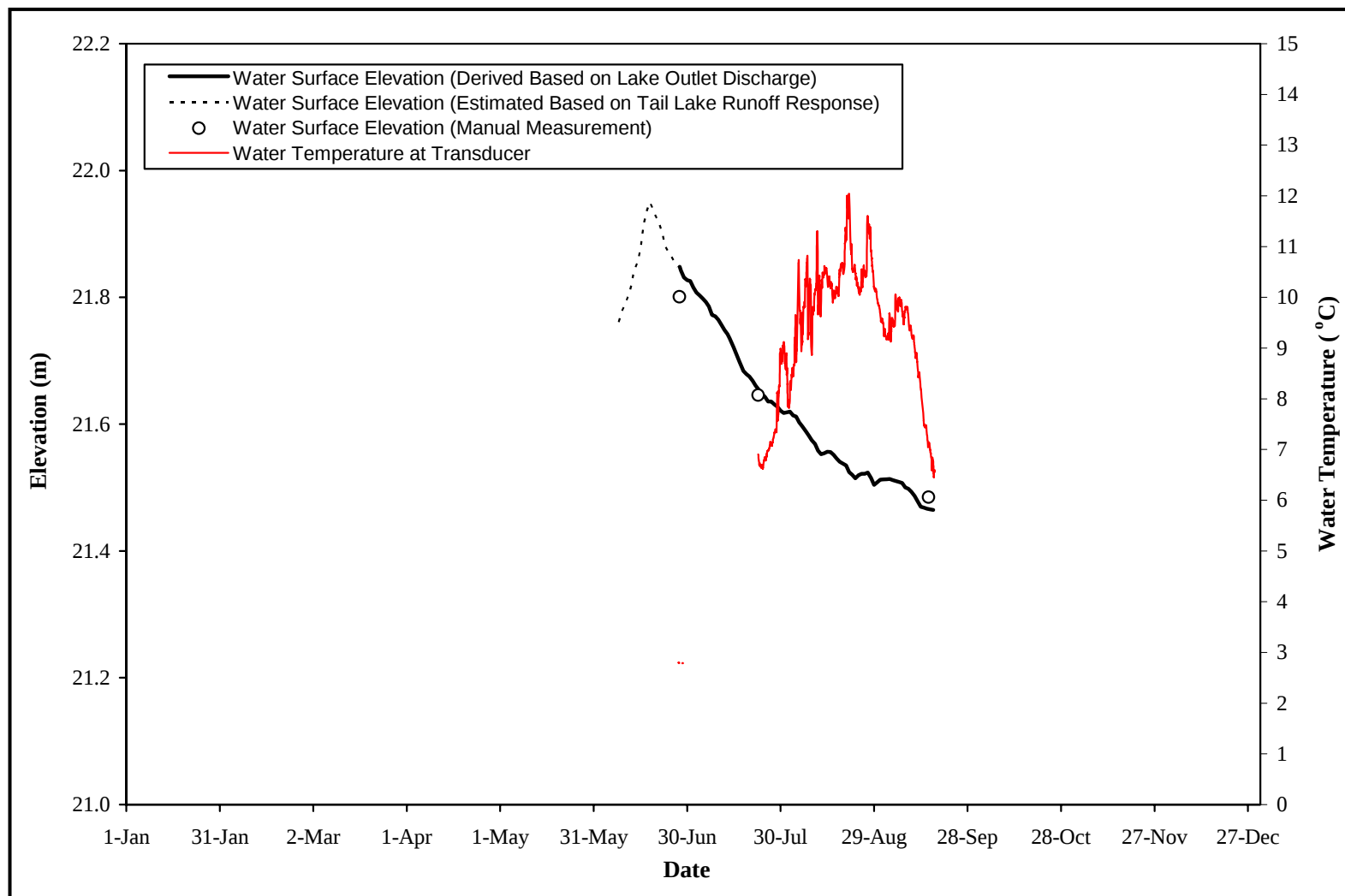


Figure 2.1 Hydrograph for Doris Lake, 2005.

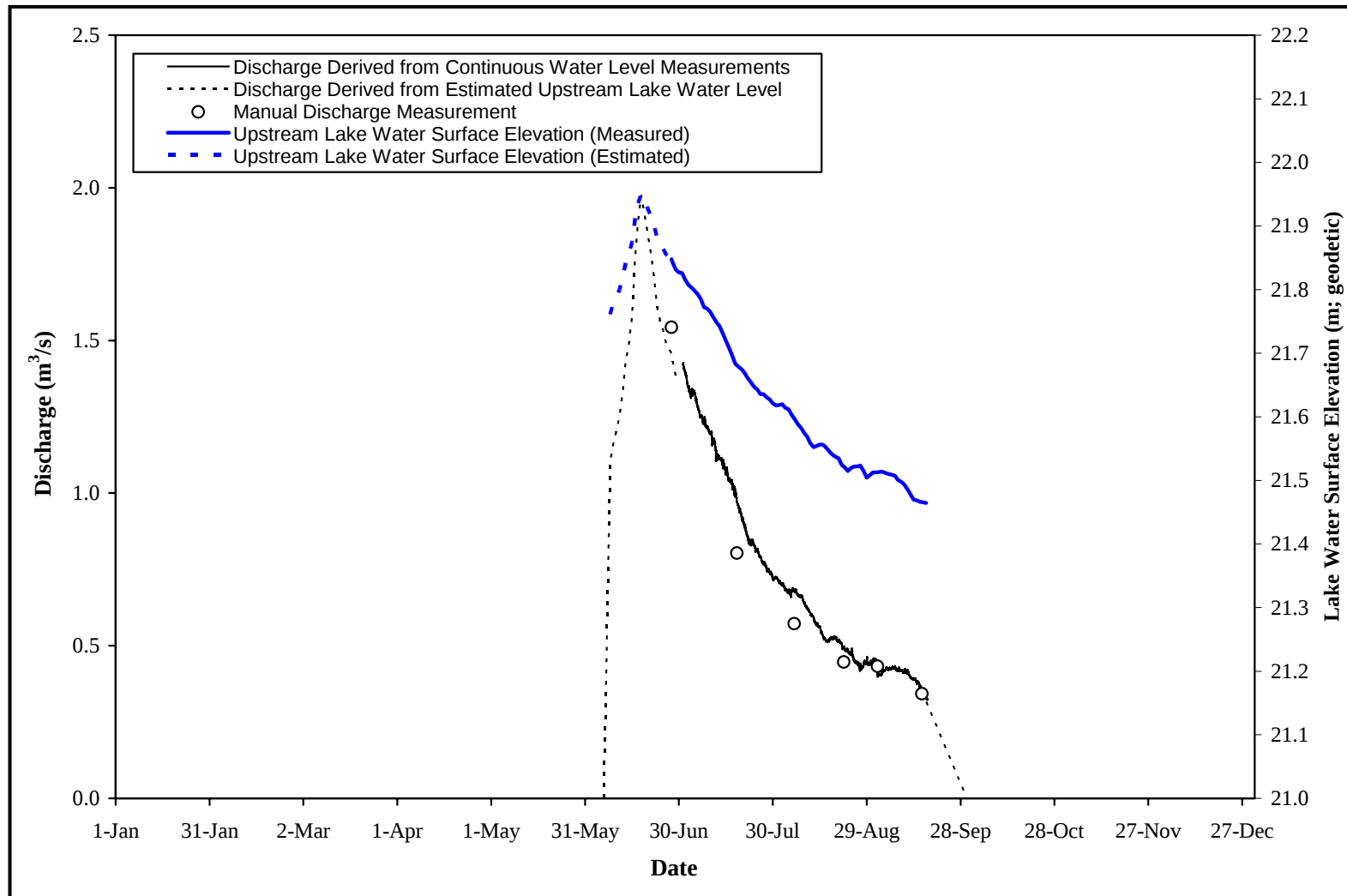


Figure 2.2 Hydrograph for Doris Lake Outflow, 2005.

2.2.2 Tail Lake and Tail Lake Outflow

Factsheets describing the locations of the hydrometric site and equipment installed at Tail Lake (Station H75) and Tail Lake outflow (Station H76) are provided in Appendix A. The appendix also contains: stage-discharge data; the derived stage-discharge rating curve based on 2004 and 2005 data; tabulated mean daily discharge and water level data; and manual discharge measurement data and calculation sheets.

The Tail Lake hydrometric station was visited four times during the 2005 field program, and a continuous hydrograph was derived for the period 10 September 2004 to 17 September 2005. The Tail Lake outflow hydrometric station was visited seven times during the 2005 field program, and a continuous hydrograph was derived for the period 26 June to 17 September. Details of each site visit are provided in Table 2.2. The hydrograph for Tail Lake (Station H75) for the period September to December 2004 is presented in Figure 2.3, and the hydrograph for the period January to September 2005 is presented in Figure 2.4. The hydrograph for Tail Lake outflow (Station H76) for 2005 is presented in Figure 2.5.

Table 2.2 Site visits to Tail Lake and Tail Lake outflow hydrometric stations, 2005.

Date	Activities	Lake	Water Level (geodetic)	Outflow	Discharge
26 June	Installed transducer on Tail Lake outflow. Surveyed water level and measured discharge. Downloaded Tail Lake data logger; may be ice affected.	✓	28.293	✓	0.052 m ³ /s
18 July	Surveyed water level and measured discharge.	✓	28.239	✓	0.020 m ³ /s
5 August	Measured discharge.			✓	0.027 m ³ /s
21 August	Measured discharge.			✓	0.025 m ³ /s
1 September	Measured discharge.			✓	0.023 m ³ /s
15 September	Measured discharge.			✓	0.011 m ³ /s
16 September	Surveyed lake water level.	✓	28.225		
17 September	Tail Lake data logger downloaded. Transducer left in place for overwintering. Tail Lake outflow transducer removed for winter.	✓	n/a	✓	n/a

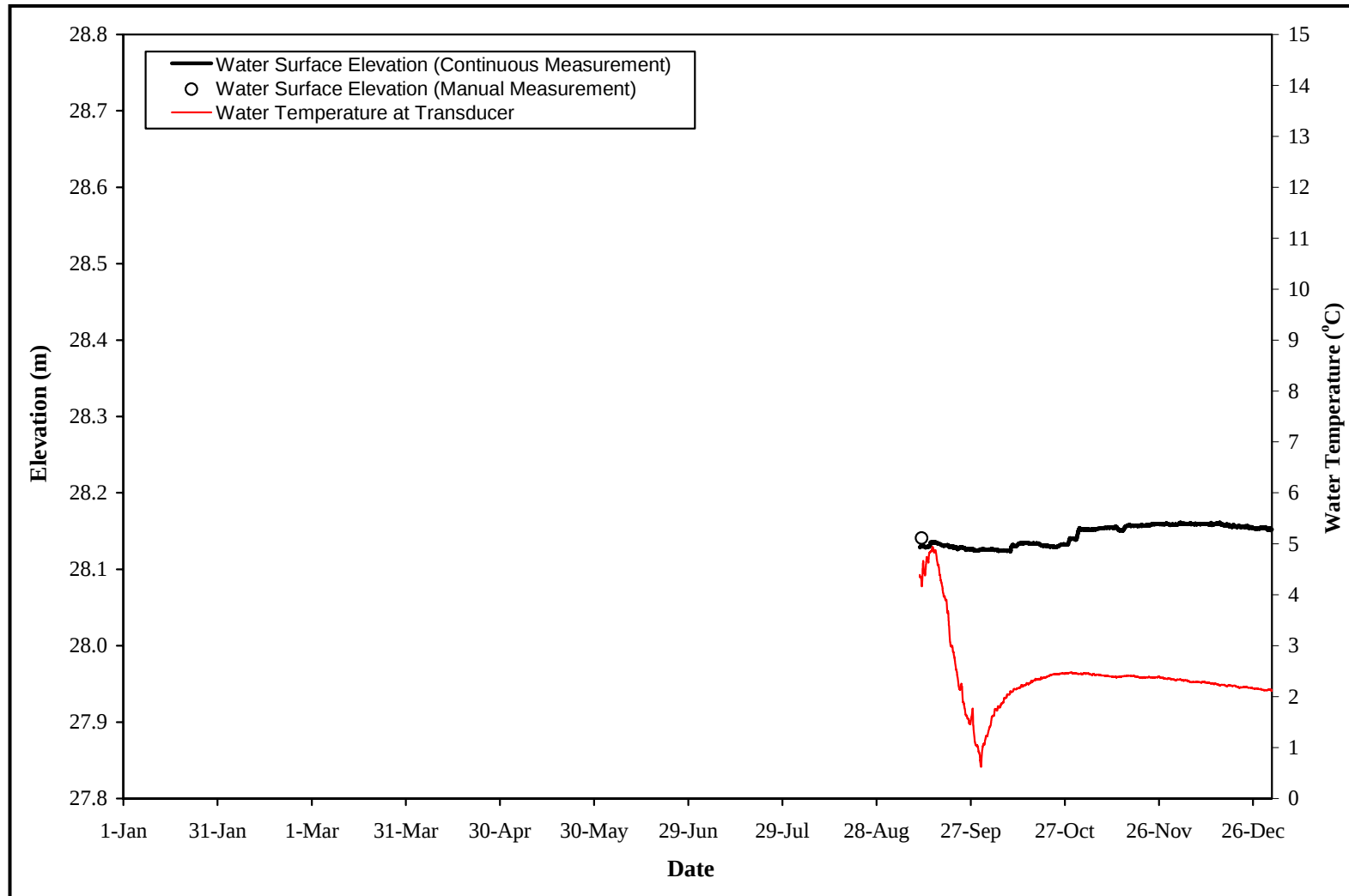


Figure 2.3 Hydrograph for Tail Lake, to year end 2004.

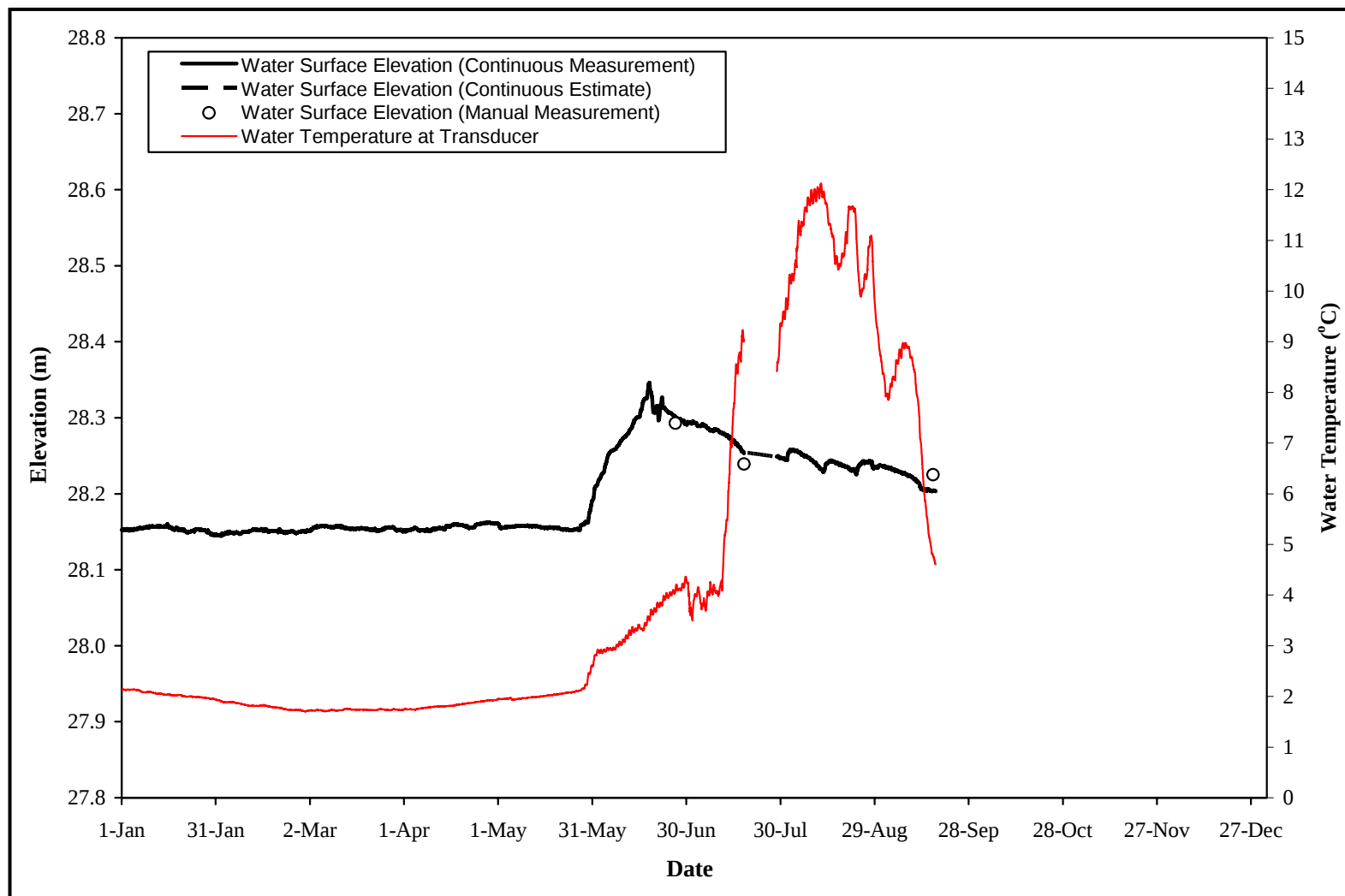


Figure 2.4 Hydrograph for Tail Lake, 2005.

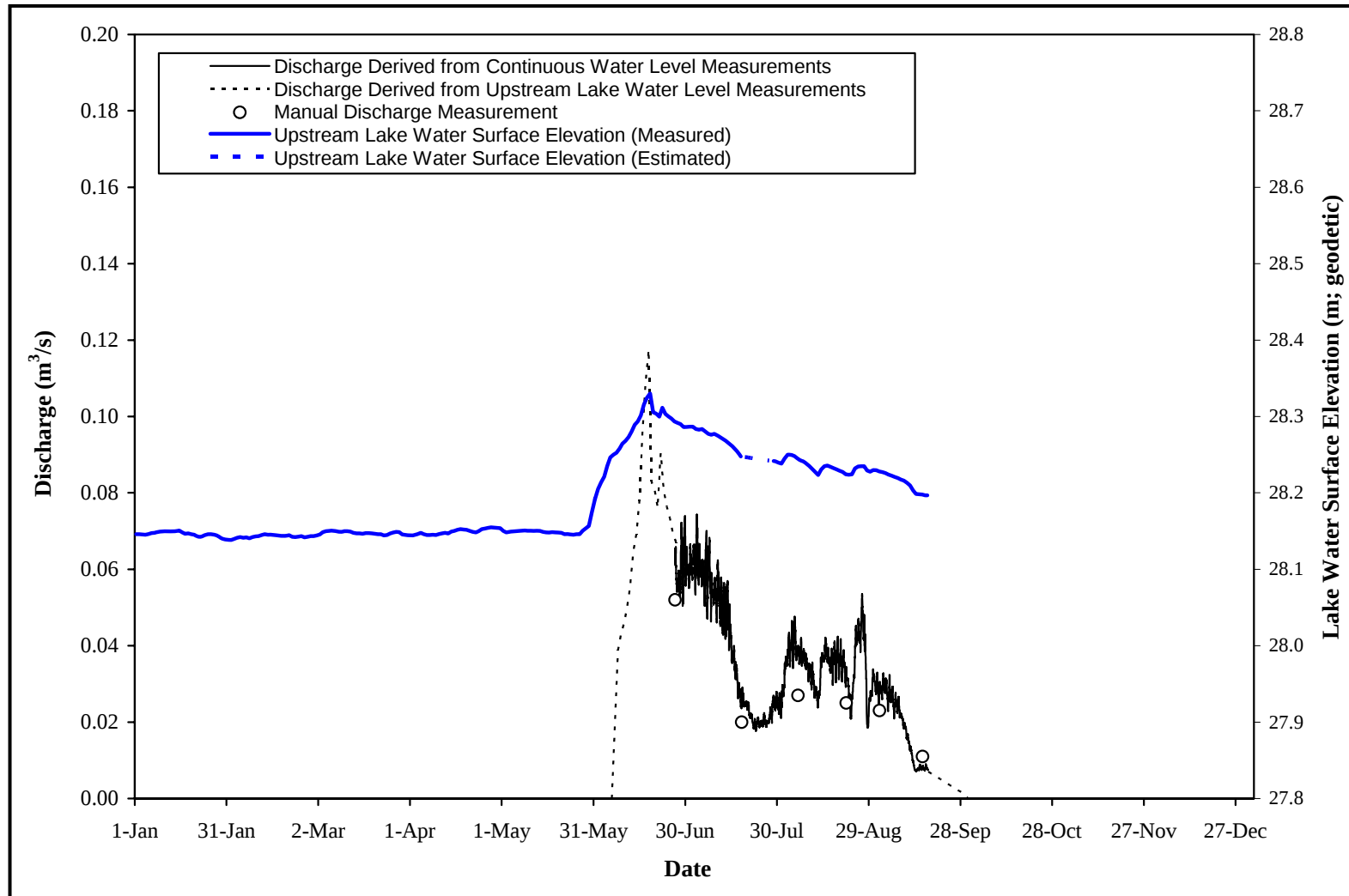


Figure 2.5 Hydrograph for Tail Lake outflow, 2005.

2.2.3 Roberts Lake and Roberts Lake Outflow

A factsheet describing the locations of the hydrometric site and equipment installed at Roberts Lake and Roberts Lake outflow (Station H72) is provided in Appendix A. The appendix also contains: stage-discharge data; the derived stage-discharge rating curve based on 2003, 2004 and 2005 data; tabulated mean daily discharge and water level data; and manual discharge measurement data and calculation sheets.

The Roberts Lake and Roberts Lake outflow hydrometric station was visited nine times during the 2005 field program, and a continuous hydrograph was derived for the period 29 June to 17 September. Discharges between 8 June and 27 June were derived based on the estimated lake water surface elevations, and discharges between 17 September and 30 September were estimated based on linear recession to freeze-up. Details of each site visit are provided in Table 2.3, and the hydrographs from the station are presented in Figure 2.6.

Table 2.3 Site visits to Roberts Lake and Roberts Lake outflow hydrometric station, 2005.

Date	Activities	Lake	Water Level (geodetic)	Outflow	Discharge
29 June	Installed transducer and logger on Roberts Lake. Surveyed lake water level on Roberts Lake and measured discharge on Roberts Lake outflow.	✓	6.346 m	✓	1.768 m ³ /s
21 July	Checked transducer at Roberts Lake. Surveyed lake water level on Roberts Lake and measured discharge on Roberts Lake outflow.	✓	6.193 m	✓	0.786 m ³ /s
5 August	Measured discharge on Roberts Lake outflow.			✓	0.619 m ³ /s
16 August	Measured discharge on Roberts Lake outflow.			✓	0.609 m ³ /s
22 August	Measured discharge on Roberts Lake outflow.			✓	0.531 m ³ /s
31 August	Measured discharge on Roberts Lake outflow.			✓	0.656 m ³ /s
6 September	Measured discharge on Roberts Lake outflow.			✓	0.580 m ³ /s
13 September	Measured discharge on Roberts Lake outflow.			✓	0.411 m ³ /s
17 September	Removed transducer and logger from Roberts Lake for overwintering. Surveyed lake water level on Roberts Lake and measured discharge on Roberts lake outflow.	✓	6.056 m	✓	0.388 m ³ /s

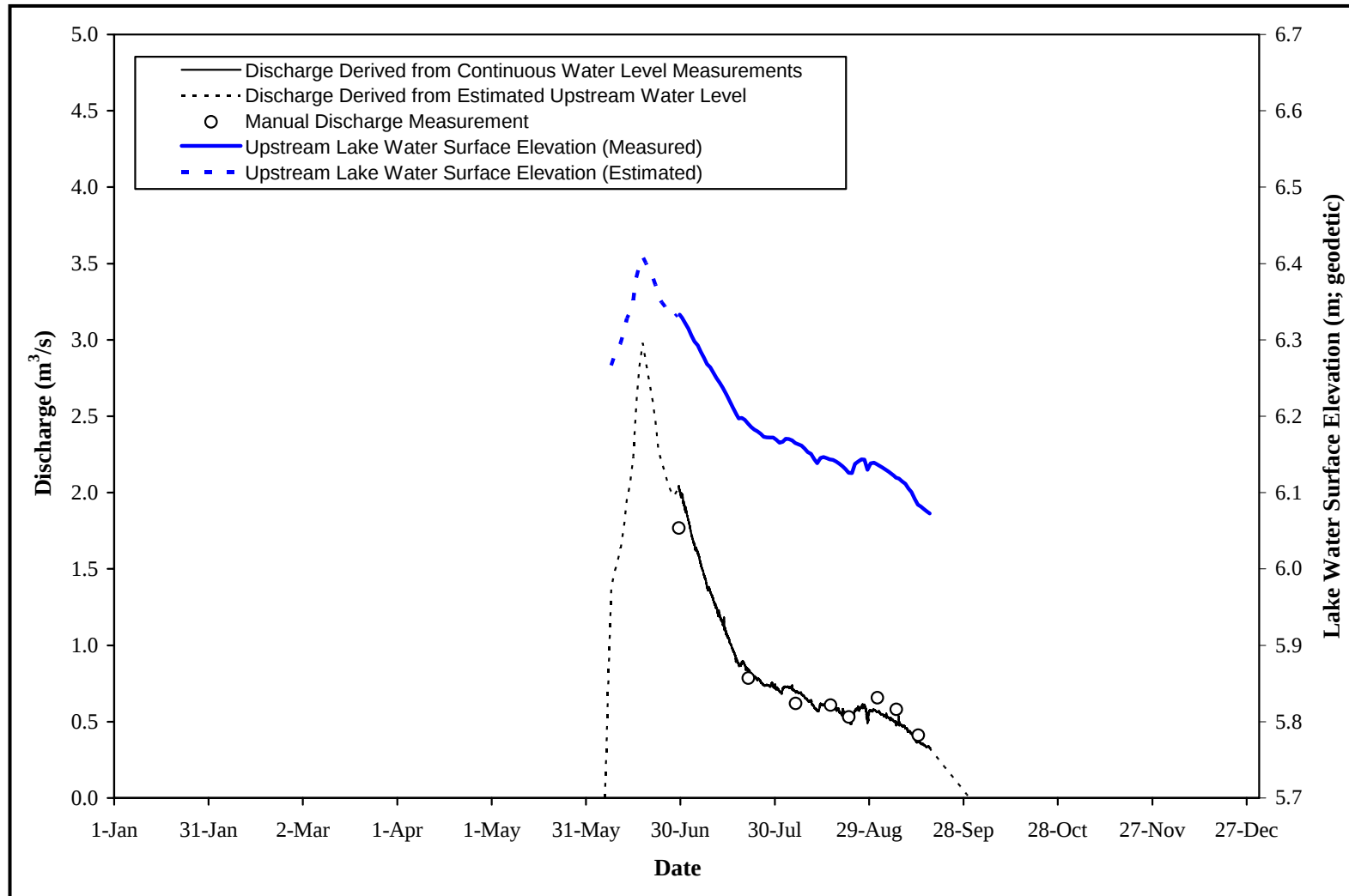


Figure 2.6 Hydrographs for Roberts Lake and Roberts Lake Outflow, 2005.

2.2.4 Little Roberts Outflow

A factsheet describing the location of the hydrometric site and equipment installed at Little Roberts outflow is provided in Appendix A. The appendix also contains stage-discharge data, the derived stage-discharge rating curve, tabulated mean daily discharge and water level data, and manual discharge measurement data and calculation sheets.

The Little Roberts outflow hydrometric station was visited seven times during the 2005 field program, and a continuous hydrograph was derived for the period 17 July to 17 September based on water level measurements and discharges at upstream stations. Continuous discharges for periods without continuous water level data were estimated based on discharges at the upstream stations on Roberts Lake outflow and Doris Lake outflow. Details of each site visit are provided in Table 2.4 and the hydrograph from the station is presented in Figure 2.7.

Table 2.4 Site visits to Little Roberts Outflow hydrometric station, summer 2005.

Date	Activities	Discharge
28 June	Surveyed water level and measured discharge at Little Roberts Creek.	3.901 m ³ /s
17 July	Installed pressure transducer at Little Roberts Creek. Surveyed water level and measured discharge at Little Roberts Creek.	1.502 m ³ /s
5 August	Measured discharge at Little Roberts Creek.	1.375 m ³ /s
19 August	Measured water level and discharge at Little Roberts Creek.	1.055 m ³ /s
31 August	Measured water level and discharge at Little Roberts Creek.	1.104 m ³ /s
14 September	Measured water level and discharge at Little Roberts Creek.	0.944 m ³ /s
17 September	Surveyed water level and measured discharge at Little Roberts Creek. Removed transducer for overwintering.	0.464 m ³ /s

2.2.5 Other Streams

A number of additional manual discharge measurements were undertaken to support fisheries work around Roberts Lake during the 2005 field program. No continuous water level or discharge measurements were acquired at these sites. The additional measurements are summarized in Table 2.5.

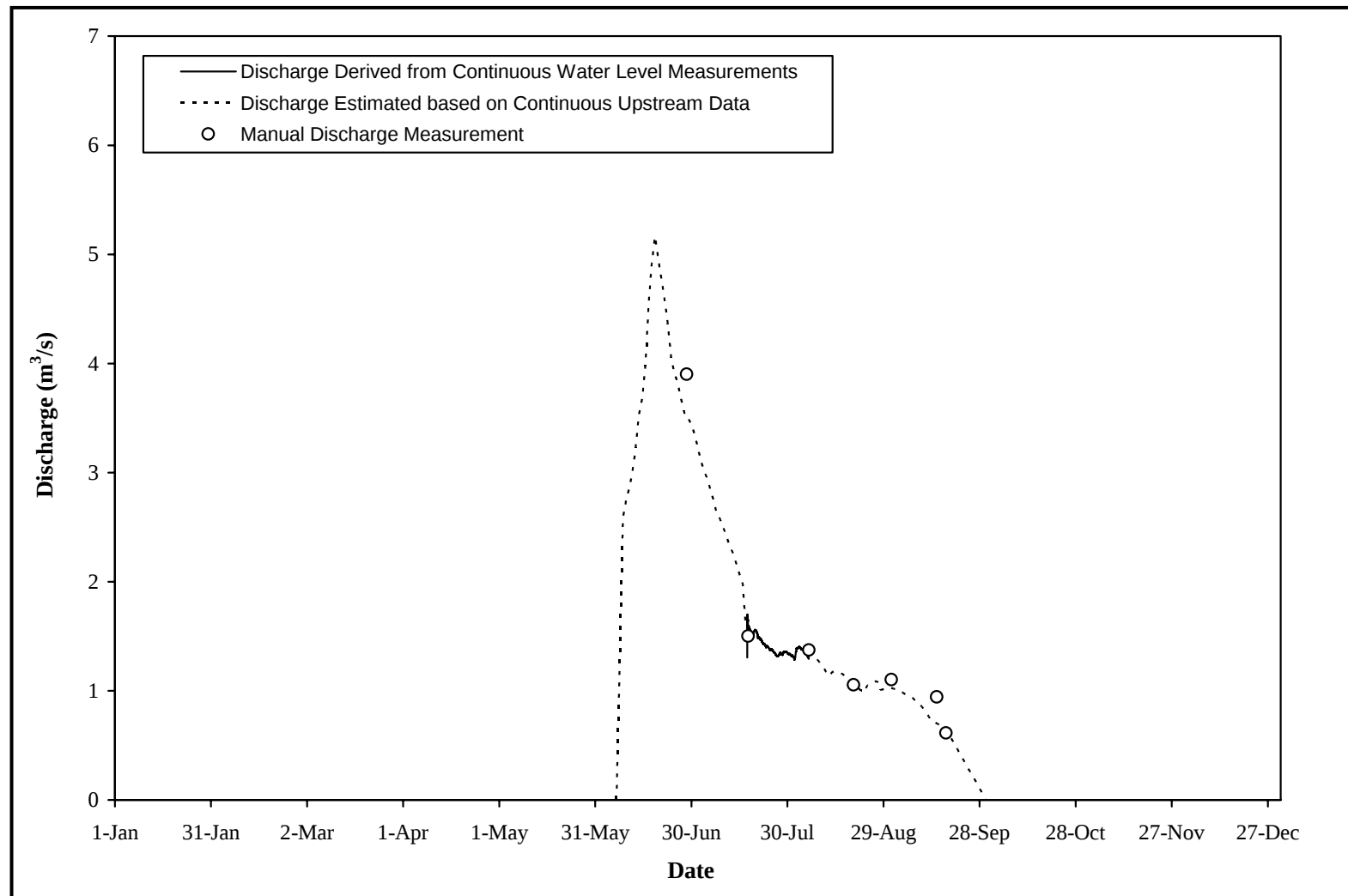


Figure 2.7 Hydrograph for Little Roberts Lake outflow, 2005.

Table 2.5 Manual discharge measurements to support fisheries work at Doris North Project, 2005.

Date	Activities	Discharge
16 August	Roberts Lake Tributary E14 – Discharge Measurement	0.065 m ³ /s
18 August	Tributary to Ponds #4 & #5 – Discharge Measurement	0.006 m ³ /s
26 August	Roberts Lake Tributary E9 – Discharge Measurement	0.084 m ³ /s
26 August	Roberts Lake Tributary E11e – Discharge Measurement	0.011 m ³ /s
26 August	Roberts Lake Tributary E11w – Discharge Measurement	0.016 m ³ /s
26 August	Roberts Lake Tributary E12 – Discharge Measurement	0.002 m ³ /s
27 August	Roberts Lake Tributary E7 – Discharge Measurement	0.011 m ³ /s
10 September	Roberts Lake Tributary E15 (Silver Creek) – Discharge Measurement	0.001 m ³ /s

2.2.6 Discussion

The 2005 hydrometry program had two layers of redundancy built in to ensure that there were no significant data gaps in the event of equipment disturbance or failure. As in 2003 and 2004, the Little Roberts outflow hydrometric station was installed as a redundant measure, to allow discharges for the Doris Lake outflow or Roberts Lake Outflow hydrometric stations to be back-calculated if either of those stations was to malfunction. The Doris Lake and Tail Lake water level stations were installed for the 2004 season as the result of regulatory review. These stations provided direct measurements of lake water surface elevation, and also could provide surrogate data for discharge measurements if required. The lake water level stations were reinstalled in September 2004 into deeper water to provide year-round data.

In 2005, the Doris Lake outflow, Tail Lake and Tail Lake outflow, and Roberts Lake outflow stations operated continuously with no malfunctions. Data gaps due to equipment malfunction occurred at the Doris Lake and Little Roberts Lake outflow stations. The missing lake level and flow data were estimated based on data from the other stations. For periods with data gaps, Doris Lake water surface elevations were estimated based on Doris Lake outflow discharge data, where a good correlation exists between outflow discharge and upstream lake water surface elevation. Discharges at the Little Roberts Lake outflow were estimated based on data from the upstream Roberts Lake and Doris Lake outflow stations, where in previous years a reliable relationship has been observed. The estimates neglect potential flow routing effects of Little Roberts Lake, but can be considered reliable for monthly and annual water yields.

Camp access was not available in 2005 until late June, so hydrometric monitoring activities did not start until 27 June. Water level data from Tail Lake, which had successfully overwintered after its installation in September 2004, provided a complete spring snowmelt hydrograph upon which early-season water surface elevations and discharges at the other stations were based.

Monthly and annual water yields for the four monitored watersheds (Doris Lake, Tail Lake, Roberts Lake and Little Roberts Lake) were calculated based on the measured hydrographs and watershed areas. These water yields are presented in Table 2.6, where the baseline mean water yield for each watershed is also shown. The data show that 2005 was a dry year when compared to the Mean Annual Yield. However, rainfall in June, July and August (refer to Section 2.4) was slightly above the long-term mean and thus summer seasonal flows are thought to be close to the mean.

Table 2.6 Calculated water yields for Doris, Tail, Roberts and Little Roberts lakes.

Watershed	Total Annual Discharge ^a	Watershed Area	Water Yield	
			2005 Annual	Mean Annual ^b
Tail Lake	370,400 m ³	4.4 km ²	84.2 mm	111 mm
Doris Lake	7,740,000 m ³	93.1 km ²	83.1 mm	134 mm
Roberts Lake	9,788,000 m ³	97.8 km ²	100.1 mm	134 mm
Little Roberts Lake	17,960,000 m ³	198.9 km ²	90.3 mm	134 mm

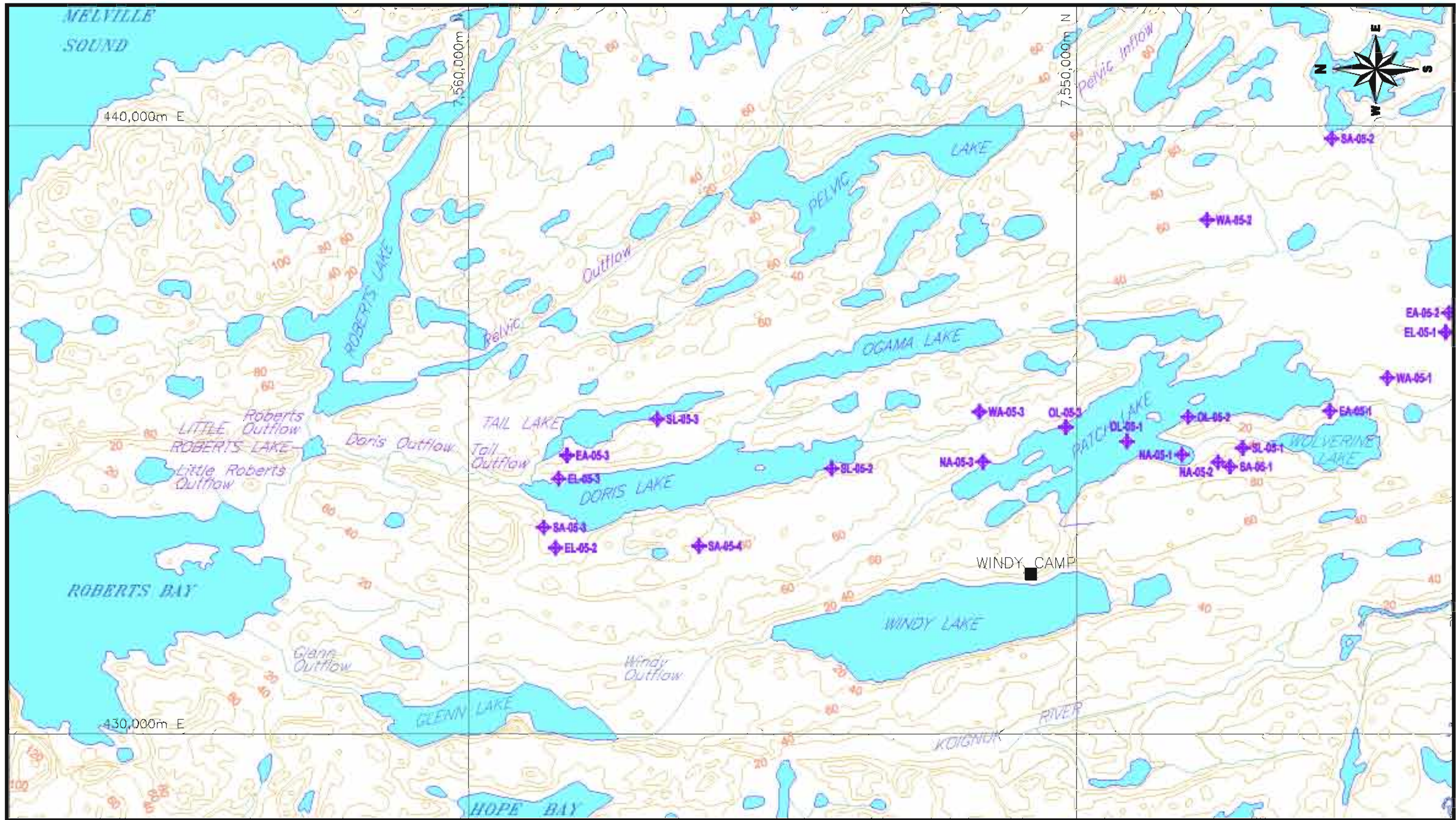
^a Hydrograph estimated before and after monitoring period.

^b Derived based on Ellice River data 1971 to 2000 (Amec 2003).

2.3 SNOW COURSE SURVEYS

The water equivalent of a snowpack (the equivalent depth of water if the snowpack is melted) is a product of snow depth and snow density. At each snow course survey plot, snow depths and snow densities were measured as described in Section 2.1.2. Appendix A presents the terrain type and snowpack measurement data collected on 9 and 12 May 2005. The snow course survey sampling locations for the 2005 program are shown on Figure 2.8, and the snow course data are presented in Table 2.7 and Figure 2.9.

Twenty-two sites over seven terrain types were examined during the snow course survey. Measured snow densities were similar across all but the north aspect terrain type, whereas snow depths ranged from a mean of 22.7 cm for open lake terrain to a mean of 34.0 cm for sheltered lowland terrain. Snow water equivalents ranged from 36.1 mm of water for north aspect terrain to 84.3 mm for sheltered lowland terrain.



LEGEND
 Snow course survey site 2005



NOTE : CONTOUR INTERVAL 20 m

REFERENCE
 BASE MAP PROVIDED BY RESCAN,
 22 JANUARY 2001

TITLE SNOW COURSE SURVEY SITES IN THE DORIS NORTH PROJECT AREA, 9-12 MAY 2005			
		PROJECT No. 05-1973-014 DESIGN BT 23/02/06 CADD RW 23/02/06 CHECK REVIEW	FILE No. 17304501 SCALE As shown REV. D
FIGURE: 2.8			

Table 2.7 Snow course survey data for Doris Lake watershed, 9 - 12 May 2005.

Terrain Type	Survey Plot Number	Snow Density (g/cm³)	Snow Depth (cm)	Snow Water Equivalent (mm)
Open Lake	OL-05-1	0.275	15.3	42.0
	OL-05-2	0.280	21.3	59.6
	OL-05-3	0.314	31.7	99.5
	2005 Mean	0.290	22.7	67.0
Exposed Lowland	EL-05-1	0.240	54.0	129.7
	EL-05-2	0.217	24.6	53.2
	EL-05-3	0.209	9.7	20.3
	2005 Mean	0.222	29.4	67.8
Sheltered Lowland	SL-05-1	0.246	45.6	112.2
	SL-05-2	0.234	32.9	76.9
	SL-05-3	0.274	23.3	63.7
	2005 Mean	0.251	34.0	84.3
North Aspect	NA-05-1	0.126	27.0	34.1
	NA-05-2	0.053	13.0	7.6
	NA-05-3	0.234	28.4	66.5
	2005 Mean	0.138	22.8	36.1
East Aspect	EA-05-1	0.205	38.0	77.8
	EA-05-2	0.156	28.4	44.3
	EA-05-3	0.242	16.3	39.5
	2005 Mean	0.201	27.6	53.8
South Aspect	SA-05-1	0.205	35.3	72.4
	SA-05-2	0.247	25.8	63.6
	SA-05-3	0.222	28.8	63.9
	SA-05-4	0.304	41.8	127.2
	2005 Mean	0.225	30.0	66.6
West Aspect	WA-05-1	0.183	29.1	53.2
	WA-05-2	0.273	35.0	95.6
	WA-05-3	0.199	27.5	54.8
	2005 Mean	0.218	30.5	67.9

Wind redistributes snowfall over the course of a winter, and in general, exposed terrain, such as open lake areas, collects less snow than sheltered lowland areas. Similarly, prevailing winds redistribute snow unequally across slopes of differing aspect. These effects may result in significant differences between terrain types in some cases. However, this study involved a limited number of sampling sites in an area with little vegetation, and broad ranges of measured values were observed within each terrain type. As such, detailed calculation of the mean snow water equivalent, based on the relative proportion of each terrain type, is not

recommended. An unweighted mean snow water equivalent of 63.4 mm should be used in any water balance calculations.

2.4 RAINFALL

The Doris North meteorological station operated continuously from 27 February 2004 to its last download of 2005, on 20 September. Rainfall data have been recorded at the station in the months where air temperatures have been above 0°C, which generally includes the months of May to September. It is possible that trace rainfall events, and localized rainfall events in parts of the watershed distant from the meteorological station, occurred over the course of the open water months and were not recorded. Rainfall data from 2004 have undergone an additional quality check, and as a result, previously reported rainfall has been revised. Monthly rainfall totals for 2004 and 2005 are provided in Tables 2.8 and 2.9, respectively. Daily and annual cumulative rainfall are plotted in Figure 2.10 for 2004 and in Figure 2.11 for 2005.

Table 2.8 Revised monthly rainfall measured at Doris North meteorological station, May to September 2004.

Month	Measured Rainfall	Long-Term Mean Rainfall ^a
May	0.3 mm	3.2 mm
June	6.4 mm	13.7 mm
July	11.9 mm	24.2 mm
August	15.2 mm	29.0 mm
September	15.5 mm	14.4 mm
Total	49.3 mm	84.5 mm

^a Source: Table 8 of Amec (2003).

The Doris North meteorological station recorded more rainfall events and approximately 60% more rainfall in 2005 when compared to 2004. The wettest period occurred between approximately mid-July to the beginning of August, when 31.2 mm of rain was recorded. Lake and stream hydrographs show an increase in lake level and stream discharge during this period.

Table 2.9 Monthly rainfall measured at Doris North meteorological station, May to September 2005.

Month	Measured Rainfall	Long-Term Mean Rainfall ^b
May	0.0 mm	3.2 mm
June	18.0 mm	13.7 mm
July	27.2 mm	24.2 mm
August	31.2 mm	29.0 mm
September ^a	0.8 mm	14.4 mm
Total	77.2 mm	84.5 mm

^a To the date of the last complete daily record, 19 September.

^b Source: Table 8 of Amec (2003).

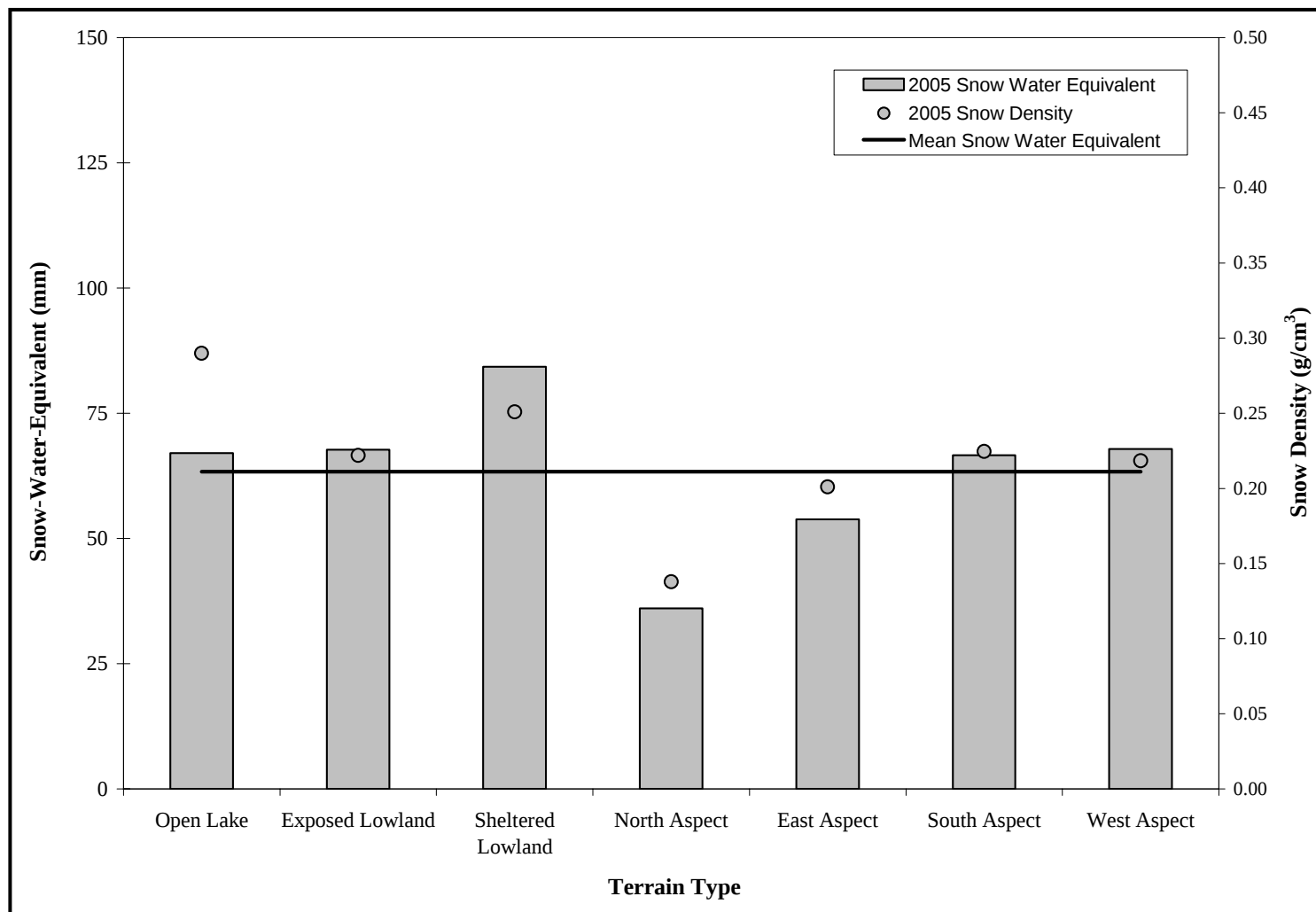


Figure 2.9 Snow course survey data for Doris Lake watershed, 9 and 12 May 2005.

2.5 EVAPORATION

The CRLE component of the WREVAP model (Morton et al. 1985) was used to estimate lake evaporation for the Doris Lake watershed. Evaporation from Doris Lake and Tail Lake were calculated separately, because lake evaporation is affected by the mean lake depth. Calculated values for the period September 2004 to August 2005 are provided in Table 2.10, where normals of lake evaporation are provided for comparison. Detailed calculation results are provided in Appendix A.

Table 2.10 Doris Lake watershed lake evaporation 2004 to 2005.

Month	Lake Evaporation		
	Baseline Report ^a	Doris Lake CRLE ^b	Tail Lake CRLE ^b
September 2003	13 mm	65 mm	37 mm
October 2003	0 mm	41 mm	7 mm
November 2003	0 mm	17 mm	0 mm
December 2003	0 mm	1 mm	0 mm
January 2004	0 mm	0 mm	0 mm
February 2004	0 mm	0 mm	0 mm
March 2004	0 mm	0 mm	0 mm
April 2004	0 mm	-2 ^c mm	0 mm
May 2004	0 mm	-2 ^c mm	4 mm
June 2004	35 mm	13 mm	45 mm
July 2004	95 mm	51 mm	86 mm
August 2004	77 mm	85 mm	79 mm
Annual Total	220 mm	267 mm	258 mm
September 2004	13 mm	66 mm	38 mm
October 2004	0 mm	31 mm	3 mm
November 2004	0 mm	1 mm	-2 ^c mm
December 2004	0 mm	1 mm	0 mm
January 2005	0 mm	0 mm	0 mm
February 2005	0 mm	0 mm	0 mm
March 2005	0 mm	-1 ^c mm	0 mm
April 2005	0 mm	-3 ^c mm	-1 ^c mm
May 2005	0 mm	-2 ^c mm	10 mm
June 2005	35 mm	19 mm	56 mm
July 2005	95 mm	68 mm	92 mm
August 2005	77 mm	81 mm	69 mm
Annual Total	220 mm	261 mm	265 mm

^a Source: (Amec 2003).

^b Calculated using WREVAP model component CRLE (Morton et al. 1985).

^c Indicates net condensation.

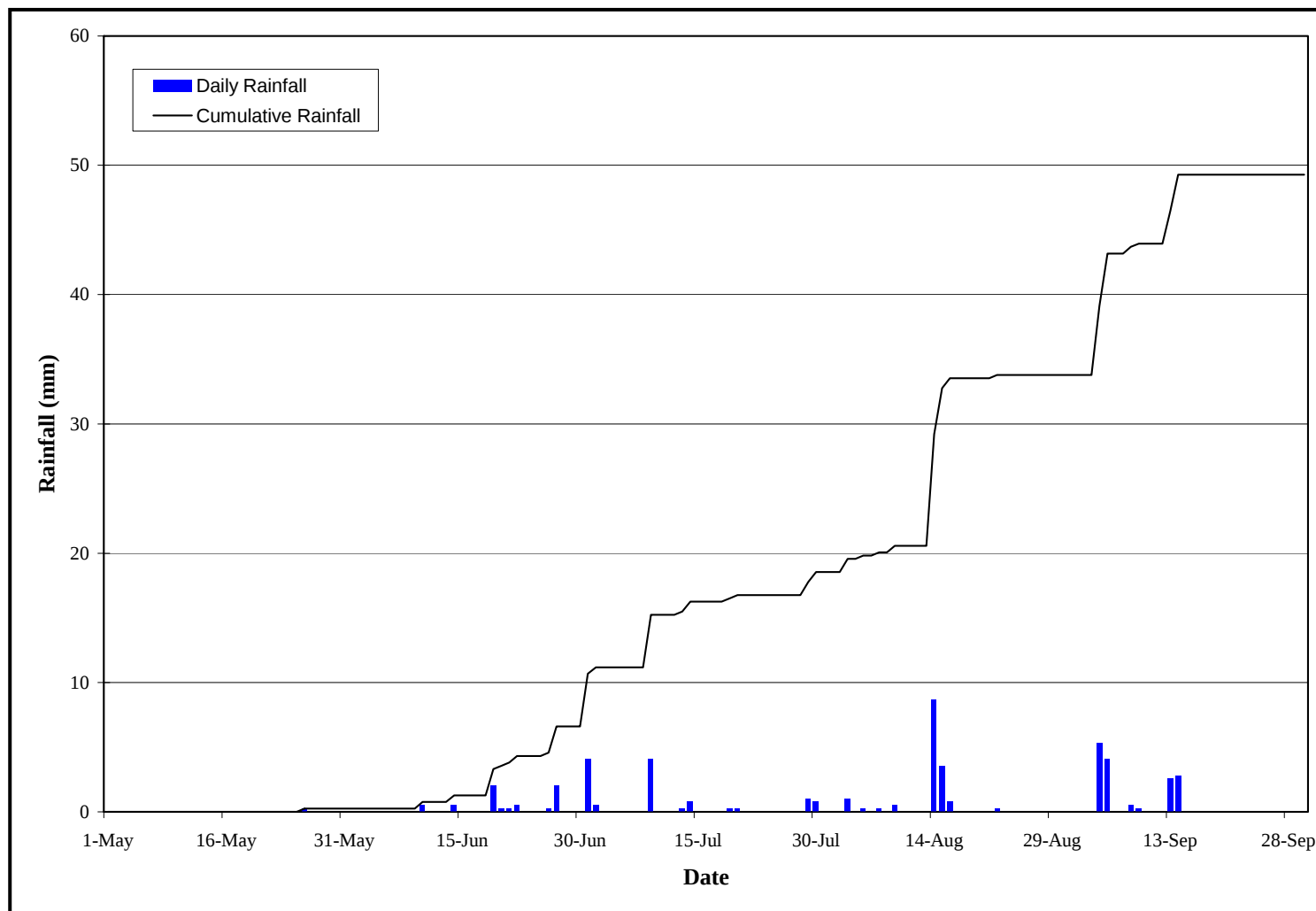


Figure 2.10 Revised rainfall data from Doris North meteorology station, May to September 2004.

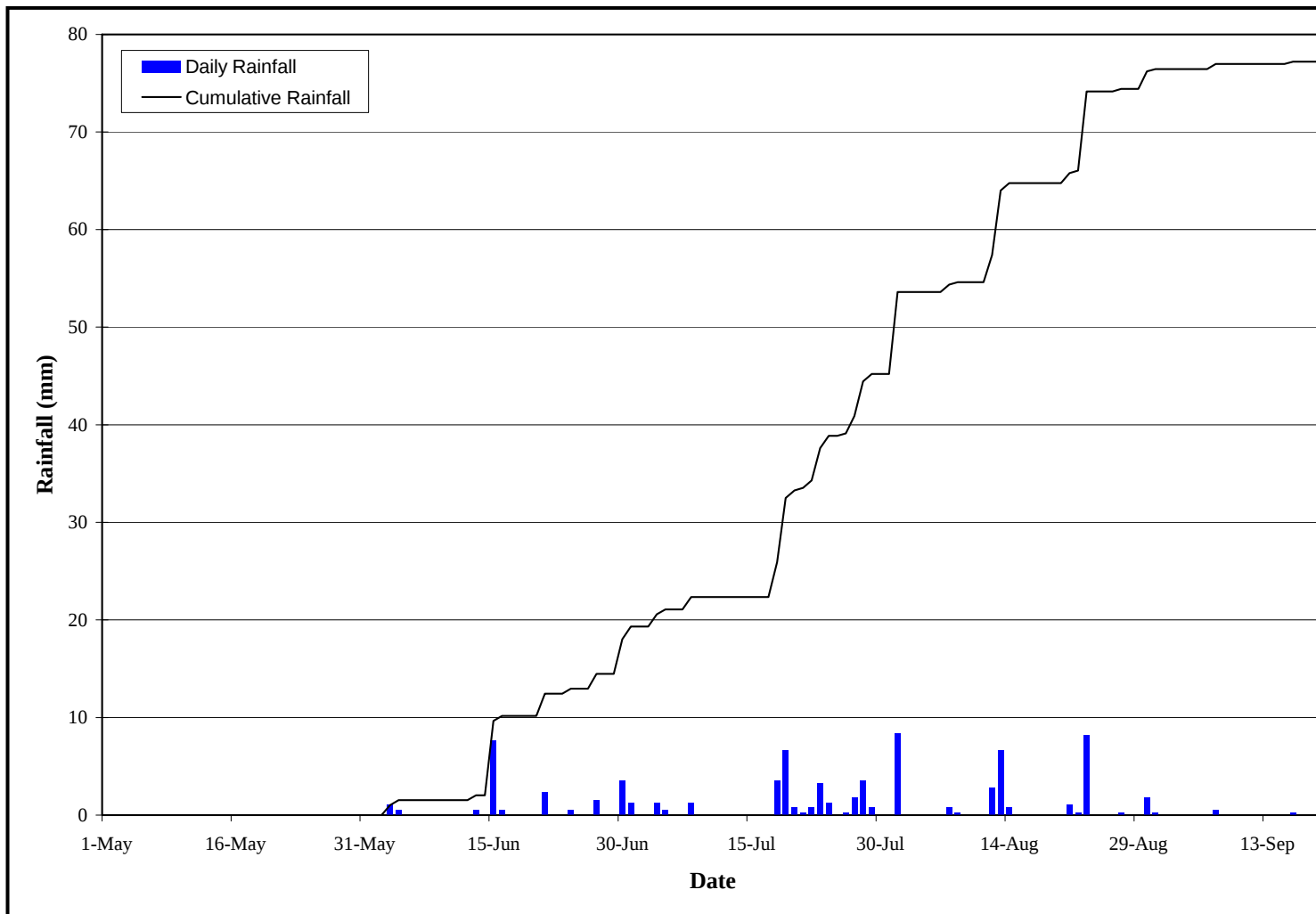


Figure 2.11 Rainfall data from Doris North meteorology station, May to September 2005.

The calculated values presented in Table 2.10 are slightly higher than the baseline estimate of 220 mm. Based on prior experience in high-latitude regions, it is believed the calculated values may be slightly overestimated.

2.6 DORIS LAKE WATERSHED WATER BALANCE

The water balance for 2004 has been revised to include the revised rainfall data. Table 2.11 provides the updated tabulated water balances for Doris Lake and Tail Lake.

Table 2.11 Revised water balance for 2004 runoff at Doris Lake and Tail Lake.

Parameter	Doris Lake		Tail Lake	
	Mean Annual ^a	2004 Annual	Mean Annual ^a	2004 Annual
Rainfall (mm)	89	49	89	49
Snow water equivalent (mm)	122	55	122	55
Total annual input (mm)	211	104	211	104
Basin discharge (mm)	134	62	111	42
Lake evaporation (mm) ^b	42	42 ^c	40	40 ^c
Calculated other losses (mm)	35	0	71	22

^a Source: Amec (2003).

^b Based on 19% and 18% lake area for the Doris Lake and Tail Lake watersheds, respectively.

^c Baseline values were used in this water balance analysis. Calculated values for 2004 were 51 mm and 47 mm for Doris Lake and Tail Lake watersheds, respectively.

The 2005 runoff year was drier than the long-term mean, due to below average snowfall and slightly below average rainfall. The spring snowcourse survey measured an average snowpack of just 64 mm snow water equivalent, compared to an estimated mean annual snowfall of 122 mm (Amec 2003). The Doris North meteorological station measured a total rainfall of 77 mm, compared to an estimated mean annual rainfall of 89 mm (Amec 2003). Measured rainfall in June, July and August was slightly above the long-term mean, but only 0.8 mm of rainfall was measured during the monitoring period in September.

Tabulated water balances for Doris Lake and Tail Lake are provided in Table 2.12.

Table 2.12 Water balance for 2005 runoff at Doris Lake and Tail Lake.

Parameter	Doris Lake		Tail Lake	
	Mean Annual ^a	2005 Annual	Mean Annual ^a	2005 Annual
Rainfall (mm)	89	77	89	77
Snow water equivalent (mm)	122	66	122	66
Total annual input (mm)	211	143	211	143
Basin discharge (mm)	134	83	111	84
Lake evaporation (mm) ^b	42	42 ^c	40	40 ^c
Calculated other losses (mm)	35	18	71	19

^a Source: Amec (2003).

^b Based on 19% and 18% lake area for the Doris Lake and Tail Lake watersheds, respectively.

^c Baseline values were used in this water balance analysis. Calculated values for 2004 were 51 mm and 47 mm for Doris and Tail Lake watersheds, respectively.

The water balances shown in Tables 2.11 and 2.12 indicate that the parameter “other losses” was equal to or greater than zero in 2004 and 2005. This value encompasses sublimation, evapotranspiration and changes to groundwater storage.

3.0 PHYSICAL LIMNOLOGY AND WATER QUALITY

An extensive water quality program was conducted in the Doris North study area between 26 June and 16 September 2005 to strengthen the project's water management strategy. Lakes were sampled monthly over the course of three months during the open-water season. Doris, Tail, Roberts, and Little Roberts outflows were sampled six times over a period of four months, and Tailings Alternate Site 2 was sampled once in August.

This section of the report presents information on baseline water quality conditions for selected lakes and streams in the study area (Figure 3.1). Refer to Appendices B1 and B2 for site-specific data.

3.1 METHODS

3.1.1 Field Sampling Locations and Procedures

Lakes

Water quality stations were established in 2005 in the deep basins of Doris Lake, Tail Lake, Little Roberts Lake, Roberts Lake and Roberts Bay. Sample sites were located using a Global Positioning System (hand-held Garmin GPS 76, accuracy of ± 3 m). Samples were collected 1.0 m below the water surface and 1.0 m above the bottom with a Kemmerer water sampler. To prevent contamination, equipment was thoroughly rinsed with ambient water before and after sampling.

Water samples were analyzed for physical and conventional parameters, major ions, nutrients, and metals. Sample bottles were provided by the laboratory and were labelled with the sample location and date. When required, the appropriate preservative was added in the field and all samples were kept cool until they were delivered to the laboratory.

Field measurements, including pH, conductivity, temperature, dissolved oxygen (DO) and Secchi depth were measured at each sample site, when possible. Dissolved oxygen and temperature were measured using a field-calibrated Oxyguard™ Beta dissolved oxygen and temperature meter. This meter was accurate to ± 0.1 mg/L for dissolved oxygen and to $\pm 0.1^\circ\text{C}$ for water temperature. Dissolved oxygen and temperature profile data were taken at 0.5 or 1 m intervals along a vertical transect from surface to near bottom. The deepest measurement for each profile was 0.5 m above the lake bottom to avoid contamination of the probe by fine sediments. Conductivity and pH were measured at the surface with an Oakton WTW 340I pH and conductivity meter.

Water transparency was measured with a standard Secchi disk (20 cm diameter). The depth at which a Secchi disk disappears from sight is a standard index of transparency. The euphotic zone (lower limit equals the approximate depth to which 1% of incident light penetrates) coincides with approximately twice the Secchi depth.

Streams

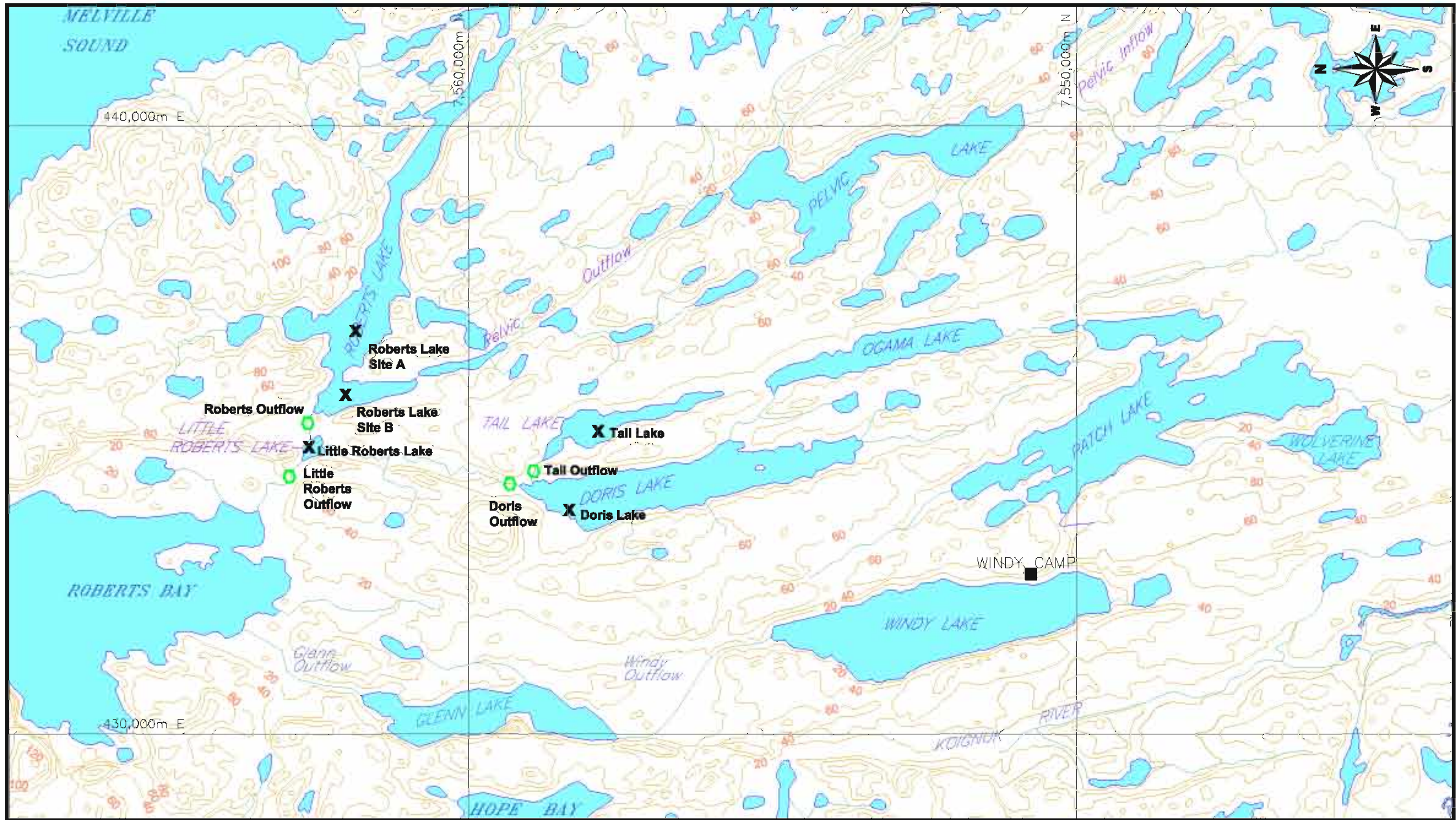
Surface water grab samples, taken approximately 0.1 m below the surface, were collected from the outflow streams of Doris Lake, Tail Lake, Roberts Lake and Little Roberts Lake. Similar to lake water samples, all stream water samples were analyzed for physical and conventional parameters, nutrients, major ions, and metals. All sample bottles were provided by the laboratory, labelled with sample location and date, preserved in the field, and kept cool until they reached the laboratory.

Field measurements, including pH, conductivity, temperature and dissolved oxygen, were measured at each sample site, when possible. Dissolved oxygen and temperature were measured using a field-calibrated Oxyguard™ Beta dissolved oxygen and temperature meter. Conductivity and pH were measured at the surface using an Oakton WTW 340I pH and conductivity meter.

Laboratory Analytical Procedures

Analyses for physical and chemical parameters, including nutrients (phosphorus, nitrogen, carbon), major ions (cations and anions), metals (total and dissolved) and physical properties (TSS, TDS), were carried out by the Alberta Research Council (ARC) Laboratory, Vegreville, Alberta. Radium 226 was analysed by Enviro-Test Laboratory (ETL), Edmonton, Alberta. Minimum reported values are provided in Table 3.1.

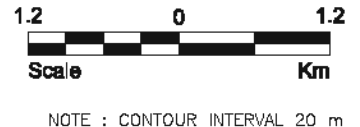
Quality assurance/quality control for the water sampling program was ensured through the use of field blanks, equipment blanks, and replicate samples (Table 3.2). Field blanks were prepared by filling sample containers in the field with deionized water provided by the laboratory. Replicate samples were collected by filling multiple containers at a single site. Equipment blanks were conducted on the Kemmerer water sampler. Deionized water was run through the equipment before being collected in sample containers for analysis. All blank samples were preserved as required and given a unique name. Total mercury, which had shown up in some of the QA/QC samples in previous years, was not detected in the Kemmerer blank or in the DI water blanks.



LEGEND

X Lake sampling location

O Stream sampling location



NOTE : CONTOUR INTERVAL 20 m

REFERENCE
 BASE MAP PROVIDED BY RESCAN,
 22 JANUARY 2001

TITLE WATER QUALITY SAMPLING LOCATIONS IN THE DORIS NORTH PROJECT AREA, 2005			
		PROJECT No. 05-1973-014 FILE No. 1730883	
DESIGN AH CADD RW CHECK REVIEW	SCALE As shown REV. D	FIGURE: 3.1	

Table 3.1 List of minimum reported values for water quality parameters analyzed for the Doris North Project, 2005.

Parameter	Unit	Minimum Reported Value	Parameter	Unit	Minimum Reported Value
<i>Metals (Total and Dissolved)</i>			<i>Nutrients</i>		
Aluminum (Al)*	µg/L	0.5	Phosphorus, Total	mg/L	0.001
Antimony (Sb)	µg/L	0.005	Ammonia-N	mg/L	0.001
Arsenic (As)*	µg/L	0.002	Color, True	T.C.U.	1
Barium (Ba)	µg/L	0.004	Dissolved Organic Carbon	mg/L	0.2
Beryllium (Be)	µg/L	0.003	Fluoride (F)	mg/L	0.01
Boron (B)	µg/L	0.05	Sulphide	mg/L	0.001
Cadmium (Cd) *	µg/L	0.002	Total Kjeldahl Nitrogen	mg/L	0.01
Calcium (Ca)	mg/L	0.004	Total Organic Carbon (calculated)	mg/L	0.8
Chromium (Cr)	µg/L	0.03	Total Suspended Solids	mg/L	1
Cobalt (Co)	µg/L	0.001	<i>Routine Water Analysis</i>		
Copper (Cu) *	µg/L	0.05	Chloride (Cl)	mg/L	0.3
Iron (Fe)*	µg/L	2	Nitrate+Nitrite-N	mg/L	0.005
Lead (Pb) *	µg/L	0.001	Nitrate-N (calculated)	mg/L	0.005
Magnesium (Mg)	mg/L	0.0001	Nitrite-N	mg/L	0.001
Manganese (Mn)	µg/L	0.003	Sulphate (SO ₄)	mg/L	3
Mercury (Hg)*	ng/L	0.6	<i>pH, Conductivity and Total Alkalinity</i>		
Molybdenum (Mo)*	µg/L	0.001	pH*	pH	0.1
Nickel (Ni)*	µg/L	0.005	Conductivity (EC)	µS/cm	0.1
Potassium (K)	µg/L	2	Bicarbonate (HCO ₃)	mg/L	1
Selenium (Se)*	µg/L	0.1	Alkalinity, Total (as CaCO ₃)	mg/L	1
Silver (Ag)*	µg/L	0.0005	Total Dissolved Solids (calculated)	mg/L	9
Sodium (Na)	µg/L	2			
Strontium (Sr)	µg/L	0.004			
Uranium (U)	µg/L	0.0001			
Vanadium (V)	µg/L	0.005			
Zinc (Zn)*	µg/L	0.1			
Bismuth (Bi)	mg/L	0.001			
Thallium (Tl)*	mg/L	0.0003			
Tin (Sn)	mg/L	0.03			
Cyanide, Total	mg/L	0.001			
Radium 226	Bq/L	0.005			

* Indicates parameters for which there are CCME (Canadian Council of Ministers of the Environment) guidelines for the protection of aquatic life.

Table 3.2 Summary of the QA/QC samples collected in the Doris North Project Area, 2005.

Waterbody	QA/QC Sample Type	No. of Samples	Date	Location in Water Column	Total Metals Analyzed	Total Ultra Low Level Mercury Results (ng/L)
Little Roberts Lake	Kemmerer Blank	1	21-Jul-05	na	yes	<0.6
		1	19-Aug-05	na	yes	<0.6
		1	14-Sep-05	na	yes	<0.6
Tail Lake	Blank DI Water	1	20-Jul-05	na	yes	<0.6
		1	16-Sep-05	na	Yes	<0.6
		1	21-Aug-05	na	yes	<0.6
Roberts Lake	Blank DI Water	1	29-Jun-05	na	yes	<0.6
		1	5-Aug-05	na	yes	<0.6
		1	31-Aug-05	na	yes	<0.6
Roberts Lake	Replicate	2	20-Jul-05	Top	yes	1.3 and 4.1
		2	16-Aug-05	Top	yes	<0.6 and 0.7
		2	13-Sep-05	Top	yes	both samples <0.6

na = not applicable

3.2 LAKE WATER QUALITY

Secchi depth, dissolved oxygen, and temperature data are summarized in Appendix B1. Analytical results of the water quality data for the 2005 sampling program are presented in Appendix B2.

3.2.1 Doris Lake

Dissolved oxygen (DO) concentrations were generally similar throughout the water column during all three sampling sessions (Figure 3.2). There was some variability in the July profile, though there did not appear to stratification in the water column. All dissolved oxygen values were well above the minimum Canadian Water Quality Guideline (CWQG; CCME 2005) for the protection of aquatic life (6.5 mg/L) and for early life stages of fish (9.5 mg/L).

During the 2005 open water season, Doris Lake was generally isothermal (Figure 3.2). In August, the water temperature gradually declined towards the bottom of the water column.

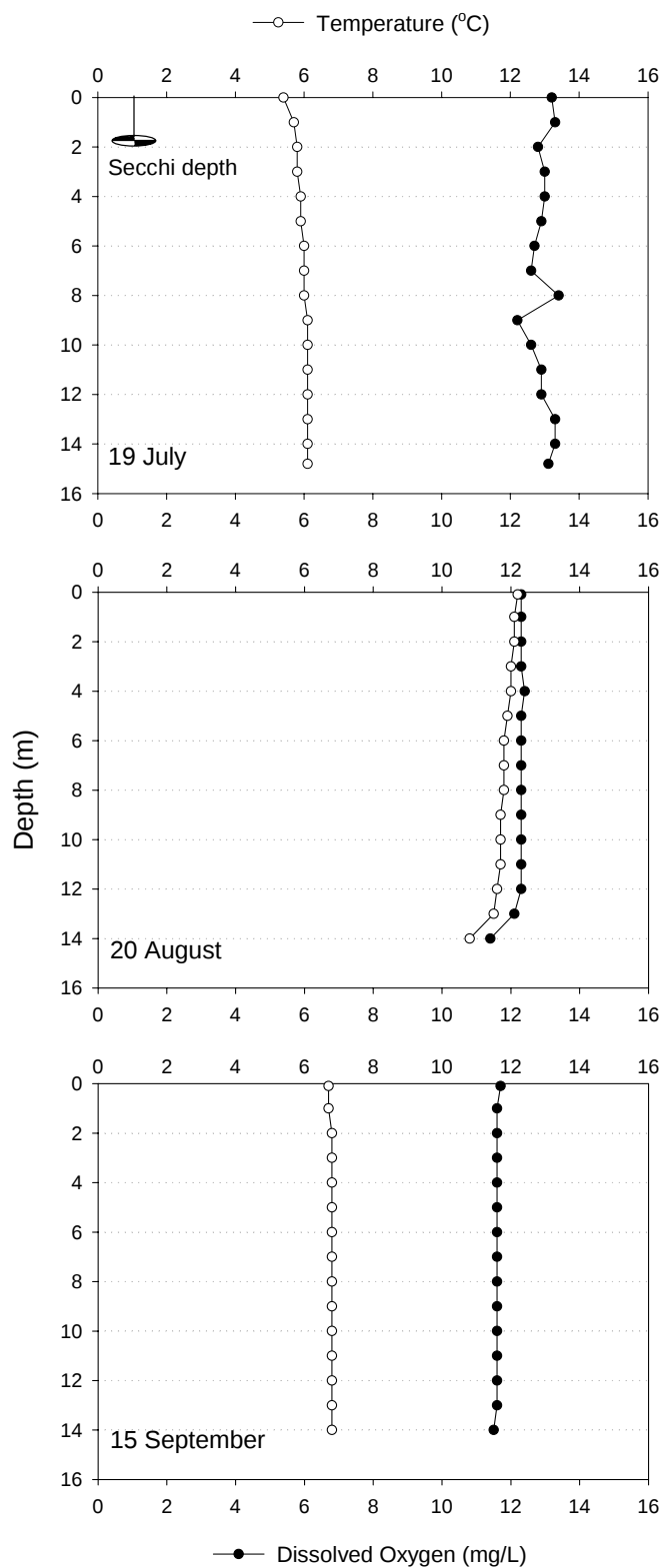


Figure 3.2 Temperature and dissolved oxygen profiles and Secchi depth for Doris Lake, 2005.

Canadian Council of Ministers of the Environment (CCME) guidelines for the protection of aquatic life have been developed for only a subset of parameters analyzed during the 2005 water sampling program (Table 3.3). Total aluminum, nickel, and lead concentrations exceeded CCME guidelines in July bottom samples. Both total and dissolved cadmium and copper concentrations also exceeded CCME guidelines in the bottom samples of Doris Lake in July. It is possible that the bottom sample collected in July was contaminated with fine sediments (TSS value was 5.3 mg/L in the bottom sample compared to 3.0 mg/L for the top sample), resulting in high metal concentrations, since the top samples were below the guideline values.

Total selenium concentrations exceeded CCME guidelines in all samples, and dissolved selenium exceeded guidelines in the August top and bottom samples and the July bottom sample (Table 3.3).

3.2.2 Roberts Lake

Roberts Lake was isothermal during all three sampling events (Figure 3.3). Dissolved oxygen concentrations were above the minimum guideline for the protection of aquatic life (6.5 mg/L) and for early life stages of fish (9.5 mg/L, CWQG; CCME 2005) throughout the open-water season and were generally uniform throughout the water column. The low dissolved oxygen concentration measured at the bottom of Roberts Lake in July and August was likely a result of probe contamination by fine sediments at the bottom. The sampling depth was shallower in July because the sampling location was approximately 200 m south-east of the usual water quality sampling location, due to safety concerns resulting from a wind storm.

Total aluminum concentrations were above the CCME guideline in Roberts Lake samples (top and bottom) on all three sampling dates (Table 3.3). During the 2004 sampling in Roberts Lake, aluminum concentrations were also above the CCME guideline.

3.2.3 Tail Lake

Tail Lake was well-mixed and isothermal during the open-water season (Figure 3.4). Water temperature was slightly lower near the surface during the July sampling event, likely due to the high winds and a recent decline in air temperature that was experienced during this sampling event.

Table 3.3 Summary of water samples that exceeded CCME guidelines for the protection of aquatic life in freshwater.

Waterbody	Strata	Date Guideline Exceeded	Al	Cd	Cu	Pb	Fe	Ni	Se
			CCME 100 µg/L	CCME 0.038 µg/L	CCME 2 µg/L	CCME 2 µg/L	CCME 300 µg/L	CCME 25 µg/L	CCME 1 µg/L
Doris Lake	Top	19-Jul							1.11 (T)
	Bottom	20-Aug							1.47 (T)
		19-Jul	108 (T)	0.23 (T)	5.66 (T)	1.83 (T)		28.3 (T)	1.11 (T)
		20-Aug							1.09 (T)
Doris Outflow	Grab Sample	27-Jun	145 (T)						
		20-Aug	774 (T)		2.06 (T)				
		01-Sep					888 (T)		1.12 (T)
Roberts Lake	Top	20-Jul	248 (T)						
	Bottom	13-Sep	140 (T)						
		20-Jul	238 (T)						
		13-Sep	147 (T)						
Roberts Outflow	Grab Sample	28-Jun	813 (T)				656 (T)		
		17-Jul	102 (T)						
		05-Aug	104 (T)						
		31-Aug	169 (T)						
		13-Sep	126 (T)						
Little Roberts Lake	Top	19-Aug							1.58 (T) 1.56 (D)
Little Roberts Outflow	Grab Sample	28-Jun	498 (T)				410 (T)		
		19-Aug							1.34 (T)
		31-Aug	156 (T)						
		14-Sep							1.35 (T)
Tail Outflow	Grab Sample	21-Aug					732 (T)		

Notes: Al=Aluminum; Cd=Cadmium; Cu=Copper; Pb=Lead; Fe=Iron; Ni=Nickel; Se=Selenium; As=Arsenic; (T)=total concentration

CCME values are for total metals only, however, the dissolved values are included for comparative purposes

The dissolved oxygen concentration was also slightly higher near the water surface, likely due to the high winds during sampling (Figure 3.4). The decline in dissolved oxygen concentration at 6 m depth in July was likely a result of the probe resting at the sediment interface. Dissolved oxygen concentrations were above the minimum guideline for the protection of aquatic life throughout the open-water season (6.5 mg/L) and for early life stages of fish (9.5 mg/L, CWQG; CCME 2005).

All metal concentrations were below CCME guidelines in Tail Lake.

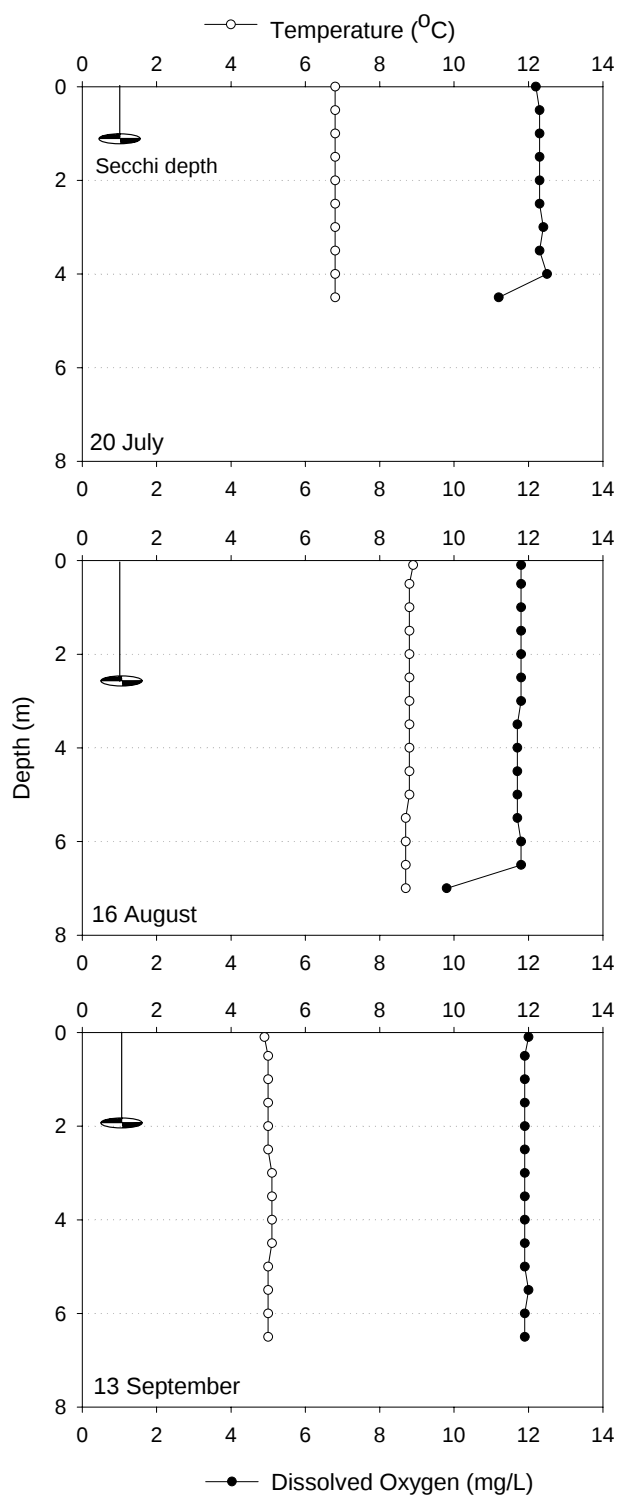


Figure 3.3 Temperature and dissolved oxygen profiles and Secchi depth for Roberts Lake, 2005.

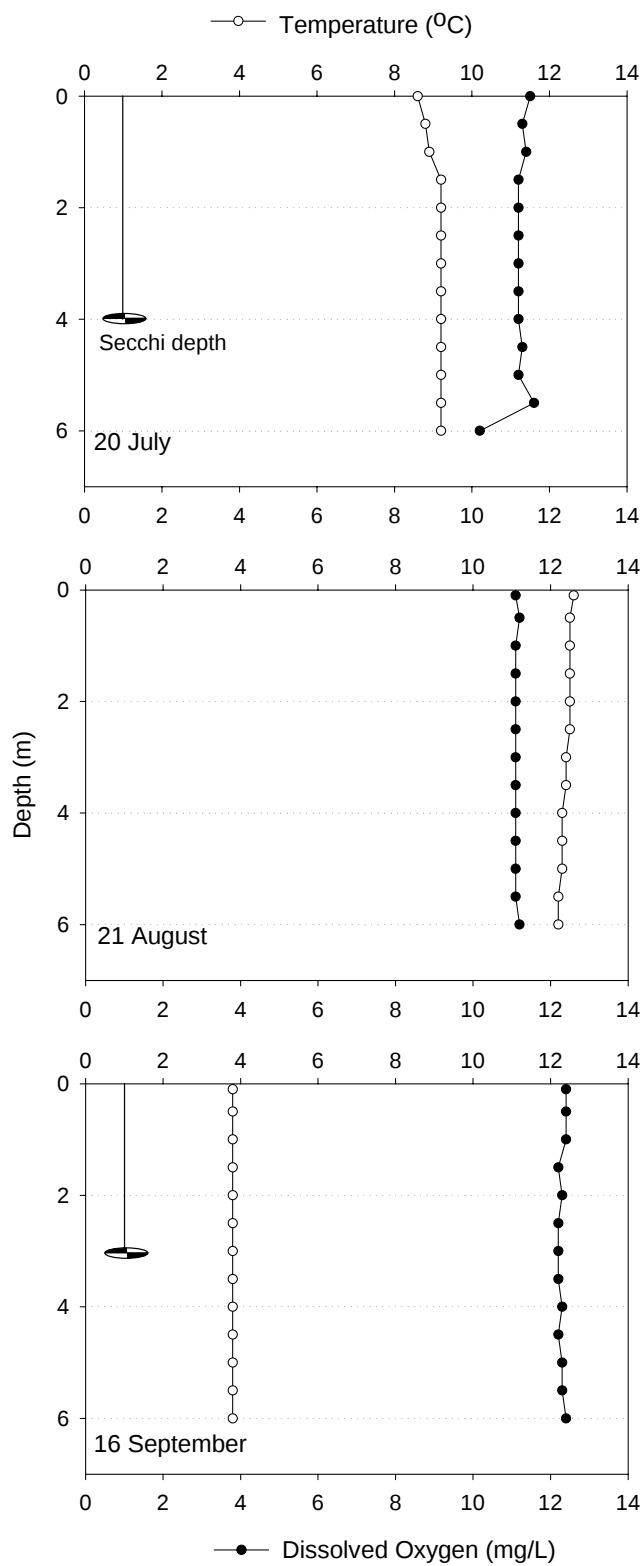


Figure 3.4 Temperature and dissolved oxygen profiles and Secchi depth for Tail Lake, 2005.

3.2.4 Little Roberts Lake

Temperature and dissolved oxygen were generally uniform throughout the water column during the open-water season (Figure 3.5). Water temperature was slightly lower near the surface during the July sampling event, likely due to the high winds and recent decline in air temperature that were experienced during this sampling event.

Dissolved oxygen concentrations were above the guideline for the protection of aquatic life. The low dissolved oxygen concentration measured at the bottom of Roberts Lake in July was likely a result of the probe being in contact with the fine bottom sediments.

Total selenium concentration in Little Roberts Lake was above the CCME guideline in August (Table 3.3); the selenium was primarily in the dissolved state (i.e., 1.56 µg/L versus 1.58 µg/L for total selenium). Total aluminum concentrations were elevated during the 2005 sampling season, though all values were below CCME guidelines (Appendix B2). As discussed above, aluminum concentrations were above CCME guidelines in Roberts Lake, Roberts outflow and Little Roberts outflow.

3.2.5 Roberts Bay

Temperature and dissolved oxygen show weak stratification in Roberts Bay during the July and August sampling events. The sample location in July was approximately 200 m south of the usual sampling location. TSS was elevated (13 mg/L; Appendix B1) at this sampling location in July, which may explain the low Secchi depth. The September profile shows that both temperature and dissolved oxygen were generally uniform throughout the water column (Figure 3.6). The surface temperature was slightly lower than the rest of the water column due to wind and snow squalls at the time of sampling. Dissolved oxygen concentrations were above the CCME guideline of 8.0 mg/L (marine and estuarine systems) during each sampling event (CWQG; CCME 2005). The low dissolved oxygen value for the bottom of the water column during the July sampling event is likely the result of the probe coming in contact with the fine bottom sediments.

There are very few CCME guidelines for metal concentrations in marine systems. Where they can be applied, concentrations in Roberts Bay were within the guidelines, with the exception of arsenic. Total and dissolved arsenic concentrations exceeded CCME guidelines for marine waters (12.5 µg/L total arsenic, CWQG; CCME 2005) during the August and September sampling events (22.1 µg/L and 21.2 µg/L, respectively).

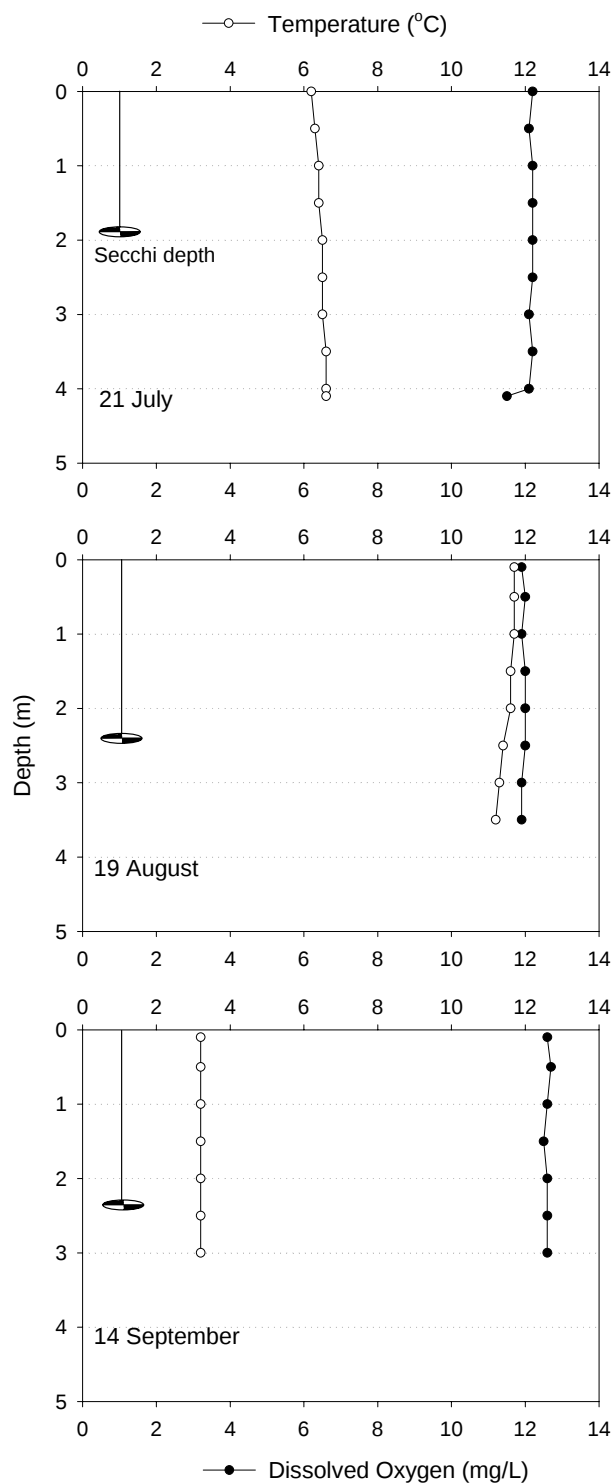


Figure 3.5 Temperature and dissolved oxygen profiles and Secchi depth for Little Roberts Lake, 2005.

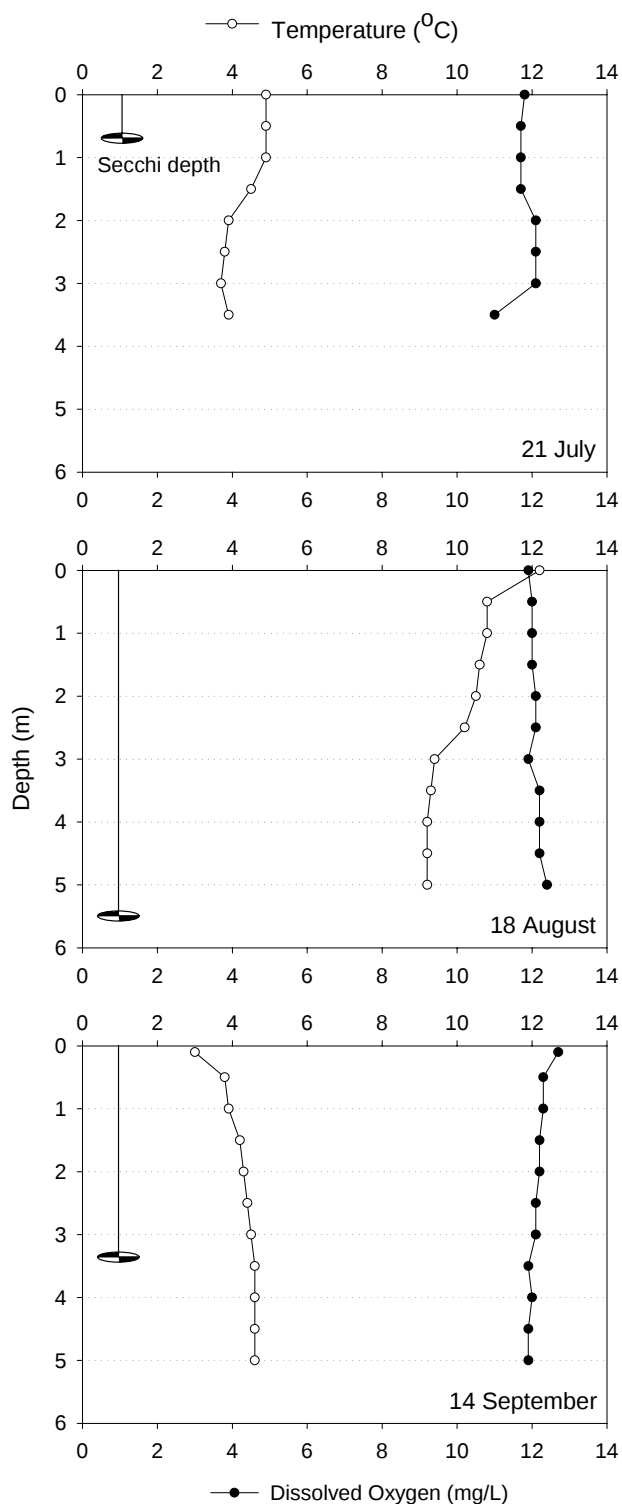


Figure 3.6 Temperature and dissolved oxygen profiles and Secchi depth for Roberts Bay, 2005.

3.2.6 Tailings Alternate Site 2

Dissolved oxygen concentrations in Tailing Alternate Site 2 were consistent at approximately 11 mg/L throughout the water column on 18 August, 2005. Dissolved oxygen concentrations were above the guideline for the protection of aquatic life (6.5 mg/L) and for early life stages of fish (9.5 mg/L, CWQG; CCME 2005). Water temperature declined with depth, but the waterbody did not appear to be thermally stratified (Figure 3.7). Water quality samples were not collected in Tailing Alternate Site 2, as this waterbody was being investigated only to assess maximum depth and suitability for fish.

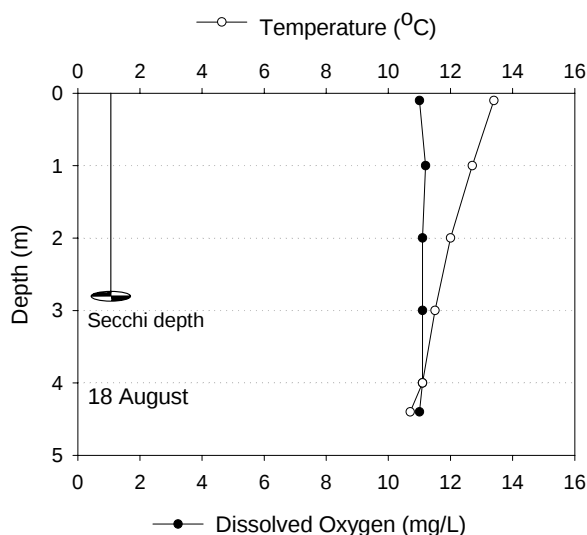


Figure 3.7 Temperature and dissolved oxygen profiles and Secchi depth for Tailings Alternate Site 2, 2005.

3.2.7 Summary

Little Roberts Lake, Roberts Lake, Tail Lake, and Doris Lake were generally isothermal and uniformly mixed during the open-water season. Roberts Bay was the only waterbody that exhibited weak thermal stratification. In all sampling locations and throughout the open-water season, dissolved oxygen concentrations met the CCME guideline for the protection of aquatic life.

At various times during the open-water season, total aluminum concentrations exceeded CCME guidelines in Roberts Lake (top and bottom) and Doris Lake, and were elevated in Little Roberts Lake. Selenium concentrations exceeded CCME guidelines on all sampling dates in Doris Lake and Little Roberts Lake. During the July sampling event, the near-bottom samples in Doris Lake exceeded CCME guidelines for cadmium, copper, lead and nickel, in addition to aluminum and selenium; however, it is likely that these values were the result of contamination of the sample by bottom sediments. Arsenic concentrations

exceeded CCME guideline for the protection of aquatic life in Roberts Bay in August and September.

3.3 STREAM WATER QUALITY

Water chemistry data for streams sampled in the 2005 field season are presented in Appendix B2. Temperature and dissolved oxygen data are presented in Table 3.4.

3.3.1 Doris Outflow

Water temperature in Doris Outflow ranged from 3.9 to 13.0°C and dissolved oxygen concentrations ranged from 10.7 to 13.1 mg/L during the seven sampling events, between 27 June and 15 September, 2005 (Table 3.4). Dissolved oxygen concentrations met the CCME guideline of 6.5 mg/L for the protection of aquatic life and the 9.5 mg/L guideline for the protection of early life stages of fish (CWQG; CCME 2005) throughout the sampling season.

Table 3.4 Stream dissolved oxygen and temperature, 2005.

	Date	Dissolved oxygen (mg/L)	Temp (°C)
Doris Outflow	27-Jun-05	13.1	3.9
	18-Jul-05	10.7	8.4
	22-Jul-05	12.4	6.5
	5-Aug-05	11.0	11.0
	20-Aug-05	11.0	13.0
	1-Sep-05	11.9	8.1
	15-Sep-05	12.5	5.2
Tail Lake Outflow	26-Jun-05	10.6	7.2
	18-Jul-05	8.7	11.7
	5-Aug-05	8.2	12.5
	21-Aug-05	8.3	12.4
	1-Sep-05	11.2	6.4
	15-Sep-05	11.1	2.7
Little Roberts Outflow	28-Jun-05	12.7	3.2
	17-Jul-05	12.7	8.4
	5-Aug-05	11.8	11.8
	19-Aug-05	12.3	12.5
	31-Aug-05	11.6	6.5
	14-Sep-05	12.9	3.4
Roberts Outflow	28-Jun-05	12.6	3.4
	29-Jun-05	13.1	3.4
	17-Jul-05	11.9	5.8
	5-Aug-05	12.0	9.1
	16-Aug-05	11.9	9.3
	31-Aug-05	12.0	7.5
	13-Sep-05	12.7	5.1

In late June, total aluminum concentrations exceeded the CCME guideline in Doris outflow, and in September, selenium concentrations exceeded the guideline (Table 3.3). Total aluminum, copper and iron concentrations exceeded CCME guidelines during the late August sampling event, and the total suspended solids (TSS) was also elevated. The elevated total metals and TSS on 20 August 2005 can be explained by the unusually high winds from the south, which created large waves on Doris lake, resulting in a suspension of sediments in the shallow areas and outflows.

3.3.2 Roberts Outflow

Water temperature in Roberts Outflow ranged from 3.4 to 9.3°C (Table 3.4). Dissolved oxygen concentrations ranged from 11.9 to 13.1 mg/L (Table 3.4). This is above the CCME guideline for the protection of aquatic life (6.5 mg/L) and for the protection of early life stages of fish (9.5 mg/L, CWQG; CCME 2005).

Similar to Roberts Lake, total aluminum concentrations were above CCME guideline on all sampling dates in Roberts Outflow (Table 3.3). Total iron also exceeded CCME guidelines in the late June sample.

3.3.3 Tail Outflow

Water temperature in Tail Outflow ranged from 2.7 to 12.5°C, and dissolved oxygen concentrations ranged from 8.2 to 11.2 mg/L (Table 3.4). Dissolved oxygen concentrations consistently met the CCME guideline of 6.5 mg/L for the protection of aquatic life, but were below the CCME guideline of 9.5 mg/L for the protection of early life stages of fish (CWQG; CCME 2005) in July and August (Table 3.4). In late August, total iron exceeded CCME guidelines (Table 3.3) and was 10 times higher than measured in the early August sample. The reason for the high iron content in late August is not known.

3.3.4 Little Roberts Outflow

Water temperature in Little Roberts Outflow ranged from 3.2 to 12.5°C, and dissolved oxygen concentrations ranged from 11.6 to 12.9 mg/L (Table 3.4). The dissolved oxygen concentrations were all above the CCME guideline.

Similar to Roberts Outflow, total aluminum concentrations were above the CCME guideline in late June and at the end of August. In late June, total iron exceeded the CCME guideline and both total and dissolved selenium exceeded the guideline for the mid-August and September samples (Table 3.3).

3.3.5 Summary

Throughout the sampling season, dissolved oxygen concentrations in Doris Outflow, Roberts Outflow, and Little Roberts Outflow met the CCME guideline for the protection of aquatic life. Tail Outflow did not meet the dissolved oxygen guideline for protection of early life stages of fish during the July and August sampling events (i.e., dissolved oxygen ranged from 8.2 to 8.7 mg/L; CCME guideline is 9.5 mg/L). This is likely due to the low flow and high organic matter (i.e., vegetation) along Tail Outflow.

At various times, total aluminum concentrations were above the CCME guideline in Doris Outflow, Roberts Outflow and Little Roberts Outflow. On one occasion, the total copper concentration exceeded CCME guidelines in Doris Outflow, likely due to elevated suspended particulate matter resulting from high wind from the south. Iron concentrations exceeded guidelines on one sample date in Roberts Outflow, Little Roberts Outflow and Tail Outflow. Total selenium concentrations exceeded guidelines in Little Roberts Outflow in mid August and September, as well as in the September sample at Doris Outflow.

4.0 FISH HABITAT

4.1 METHODS

Lake bathymetric surveys were carried out in the Doris North Project area to provide depth and volume information for Tailings Alternate Site 2 and the proposed rearing enhancement areas in Doris Lake. Detailed surveys were carried out in the entire basin for TA2, which is being assessed as an alternative tailings disposal site. Detailed surveys were carried out on the six proposed rearing enhancement areas in Doris Lake.

Shoreline habitat characteristics were visually assessed in the proposed rearing enhancement areas, and along backpack electrofishing transects in Doris Lake, and Tailings Alternate Site 2.

4.2 DORIS LAKE

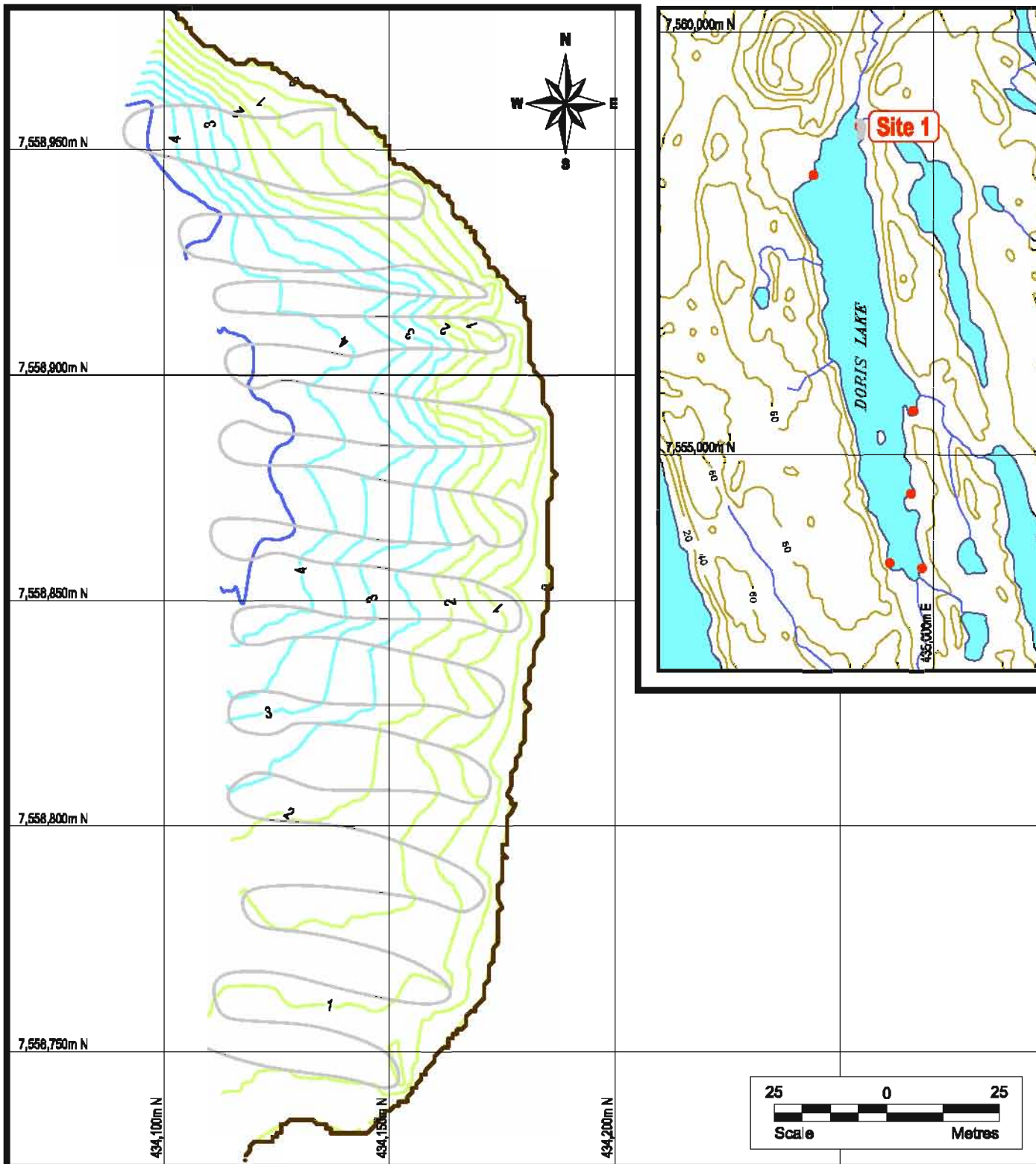
A proposal to create rearing habitat in Doris Lake was included in the submission of the “No Net Loss” Plan (NNLP) to Department of Fisheries and Oceans (DFO) in May 2005. Detailed bathymetry was collected for the six proposed rearing enhancement areas in the 2005 field program.

Rearing enhancement Site 1 is located in a small bay on the north-west side of Doris Lake in the vicinity of the proposed Doris North mine portal. Near-shore habitat at rearing enhancement Site 1 is primarily boulder and cobble, however bedrock and fines are also present. Shoreline vegetation consists of low willow in and overhanging the water (Plate 1; Figure 4.1).

Rearing enhancement Site 2 is located in a bay at the southwest end of Doris Lake. Near shore habitat is primarily sand, however the area is bordered on the east by a bedrock point, and on the west by boulder and cobble habitat with sparse willow cover along the shore (Plate 2; Figure 4.2).

Rearing enhancement Site 3 is located east of Site 2, at the south end of Doris Lake. Sand and cobble are the dominant substrate, however the area is bordered on the east by a bedrock cliff, which runs north along the east shoreline of the lake (Plate 3; Figure 4.3).

Rearing enhancement Site 4 is located in a bay on the eastern shoreline of Doris Lake, between the south end of the lake and the mouth of Ogama Lake outflow. The south, west, and northeast shorelines of rearing enhancement Site 4 are composed of primarily cobble and some boulders. The east shoreline is primarily



LEGEND

- Shoreline
- 0.5 - 2.0 m contour lines
- 2.0 - 4.0 m contour lines
- 4.0 - 5.0 m contour lines
- Transect line

Bathymetric contour interval: 0.5m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



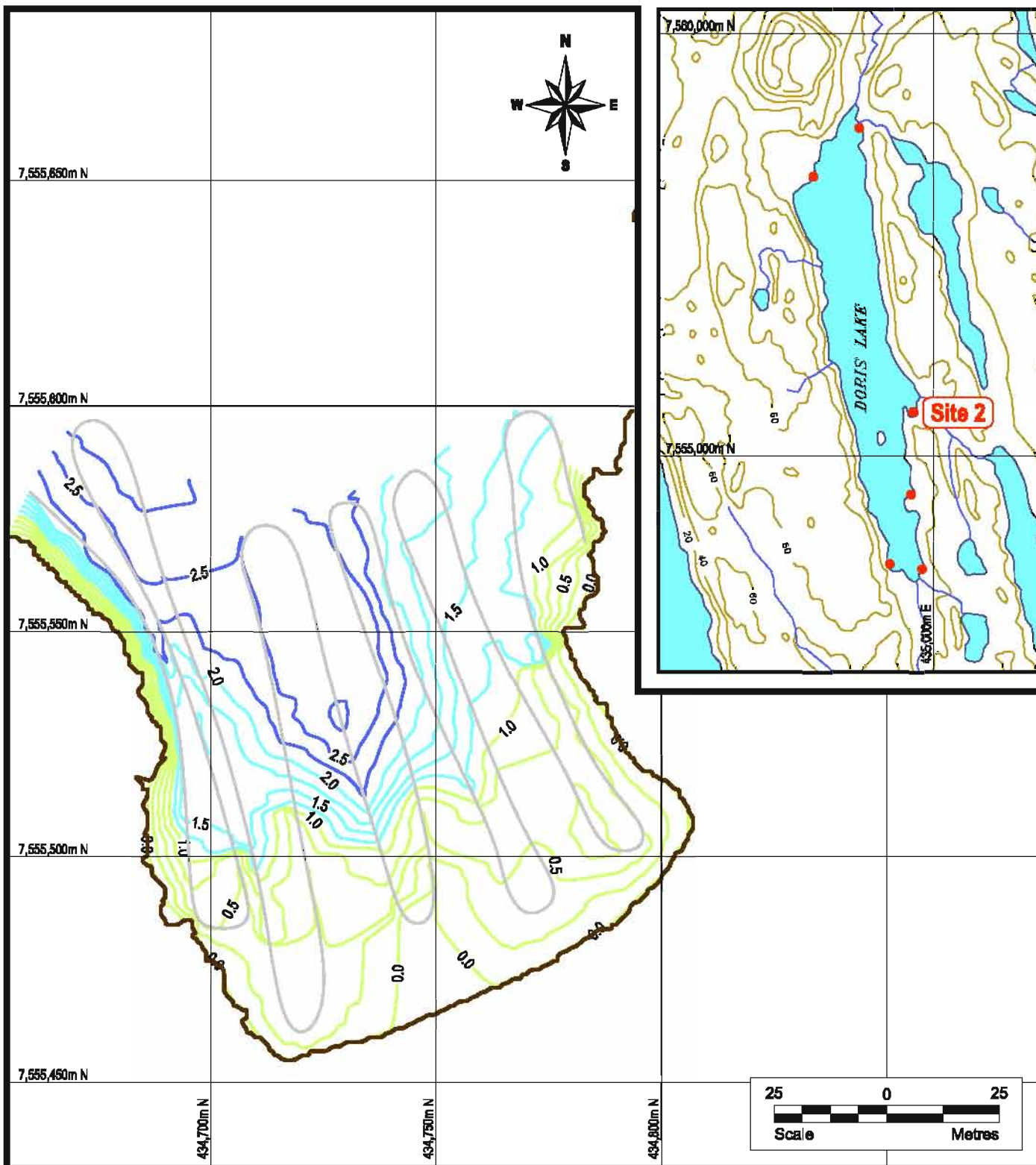
TITLE

Bathymetry of Doris Lake Rearing Enhancements Site 1



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CADD	RW	3/10/06	Figure: 4.1		
CHECK					
REVIEW					

C:\p\proj\p01\m01\1573 Aquatics\014 Miramar.M2 - 1730884 site2 bath05.dwg Jun. 9, 2006 (2:03 pm)



LEGEND

- Shoreline
- 0.25 - 1.0 m contour lines
- 1.25 - 2.0 m contour lines
- 2.25 - 3.0 m contour lines
- Transect line

Bathymetric contour interval: 0.25m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



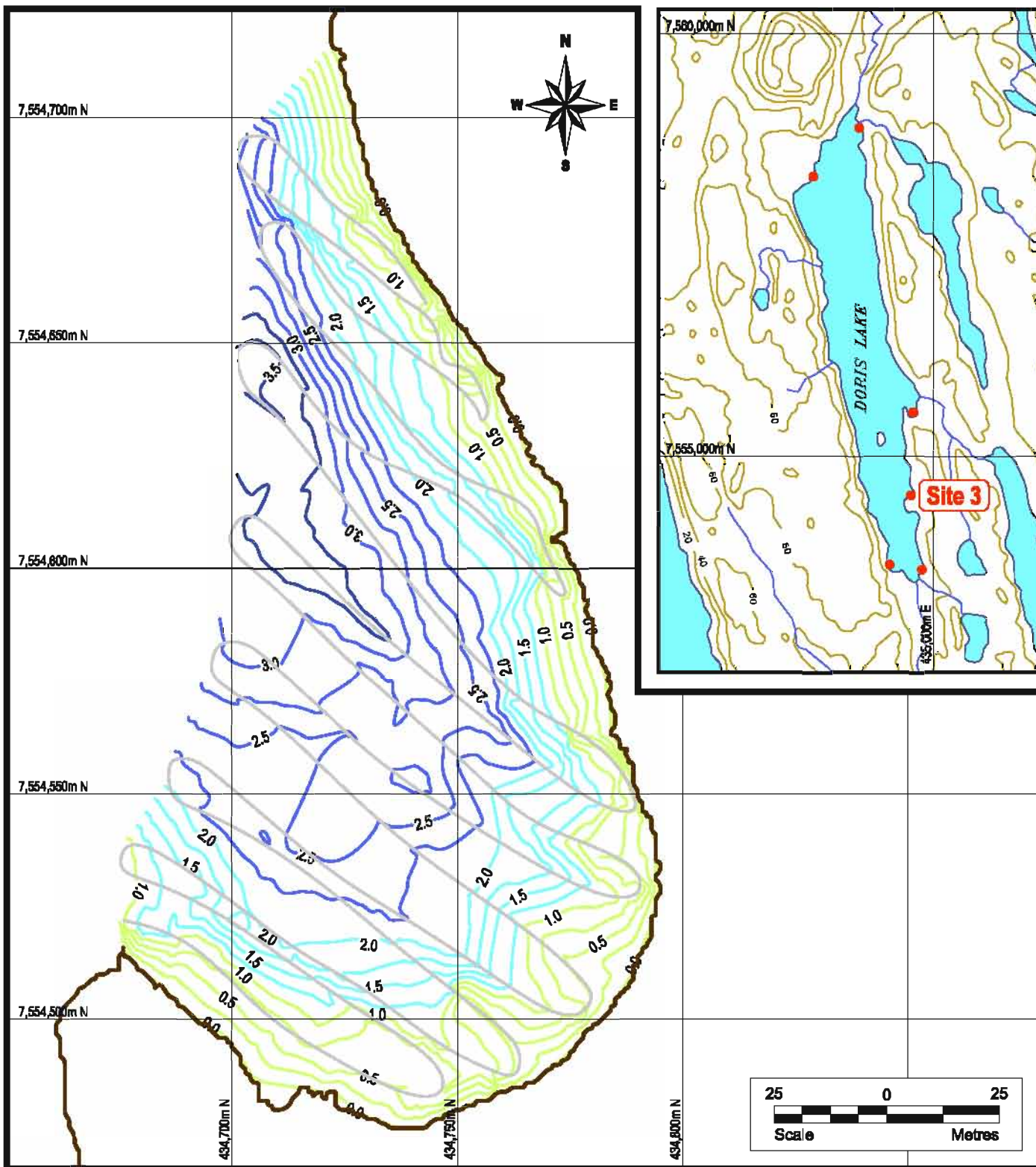
TITLE

Bathymetry of Doris Lake Rearing Enhancements Site 2



PROJECT No.			FILE No.		
DESIGN	AH	31/06/06	SCALE	As shown	REV. 0
CADD	RW	31/06/06	Figure: 4.2		
CHECK					
REVIEW					

Drawing path and name: N:\CAD\2006\1573 Aquatics\014 Miramar.MXD - 1730605_014\03 final\04.dwg Jun. 9, 2006 (2:01 pm)



LEGEND

- Shoreline
- 0.25 - 1.0 m contour lines
- 1.25 - 2.0 m contour lines
- 2.25 - 3.0 m contour lines
- Transect line

Bathymetric contour interval: 0.25m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



TITLE

Bathymetry of Doris Lake Rearing Enhancements Site 3



PROJECT No.	05-1373-014	FILE No.	1730605
DESIGN	AH	310606	SCALE As shown
CADD	RW	310606	REV. 0
CHECK			
REVIEW			

Figure: 4.3

an erosional bank with significant slumping along the shore, and the lake bottom is sand and silt. Shoreline vegetation cover is willow overhanging, and in the water (Plate 4; Figure 4.4)

Rearing enhancement Site 5 is located in a small bay near the mouth of Ogama Lake outflow. The east and west shorelines at rearing enhancement Site 5 are primarily steep bedrock, with several bedrock outcrops and boulder areas in the off-shore. The south shoreline is sloped and the bottom is primarily sand. Vegetation cover is primarily willow and several areas along the shore have willow in or overhanging the water (Plate 5; Figure 4.5).

Rearing enhancement Site 6 is located at the north end of Doris Lake near the mouth of Tail Lake outflow. The shoreline at rearing enhancement Site 6 drops off quickly to 0.3 to 0.4 m. The bank is stabilized by thick vegetation and the lake bottom is sand. The vegetation cover is primarily willow both in and overhanging the water (Plate 6; Figure 4.6).

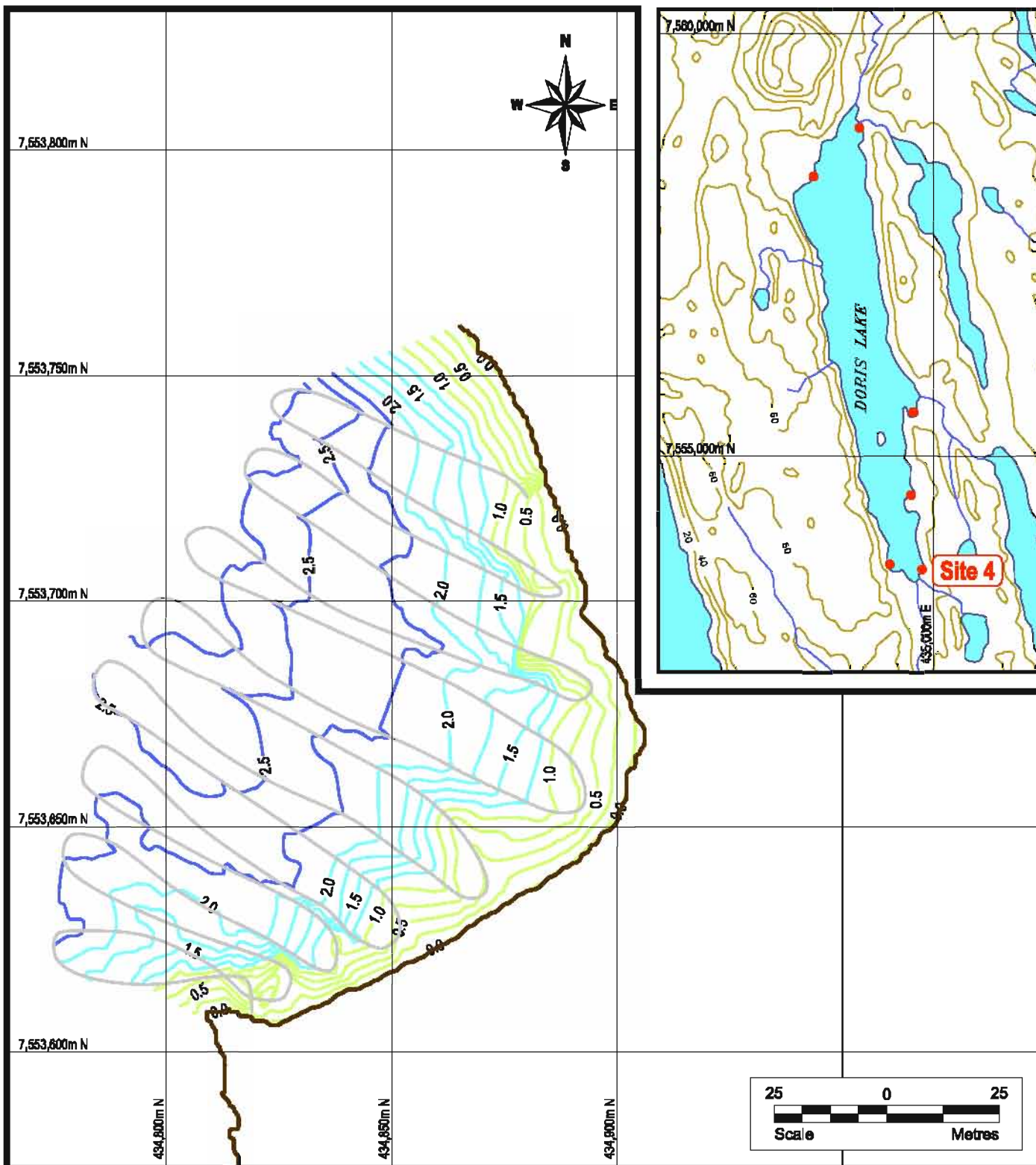
4.3 TAILINGS ALTERNATE SITE 2

TA2 was examined as a potential alternative to using Tail Lake for tailings disposal. Bathymetry was collected to determine the maximum depth and volume of the pond. TA2 is located approximately 500 m southwest of Little Roberts Lake (Figures 5.1 and 5.2).

The shoreline habitat of TA2 is primarily boulder, cobble, and bedrock along its east shore, where the small lake is bordered by a high ridge (Plate 7). Along the west, north, and south shores the substrate is comprised of fines and is vegetated with grasses and aquatic plants. The shoreline in these areas is very low and saturated. Most of the lake bottom is soft sediments, with some cobble and boulders. Surface area is 1.92 ha. Mean and maximum depths are 2.3 m and 4.4 m, respectively. Lake volume is 42 679 m³ (Figure 4.7).

Stream flow out of T2A was small and dispersed through grasses and thick clumps of willow, which precluded proper measurement of discharge. However, discharge was measured at a point downstream where the outflow of T2A combined with the outflow from other small lakes in the drainage. This combined discharge was 0.006 m³/s on 18 August, which represents the entire flow of this drainage into Doris Outflow. The lower most section of this stream has a high gradient, and it is unlikely that fish can migrate up to T2A.

Drawing path and name: N:\CAD\2006\1573 Aquatics\014 Miramar.M4 - 1730666.sldoc4 trend03.dwg
 Jun. 9, 2006 (1:59 pm)



LEGEND

- Shoreline
- 0.25 - 1.0 m contour lines
- 1.25 - 2.0 m contour lines
- 2.25 - 3.0 m contour lines
- Transect line

Bathymetric contour interval: 0.25m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



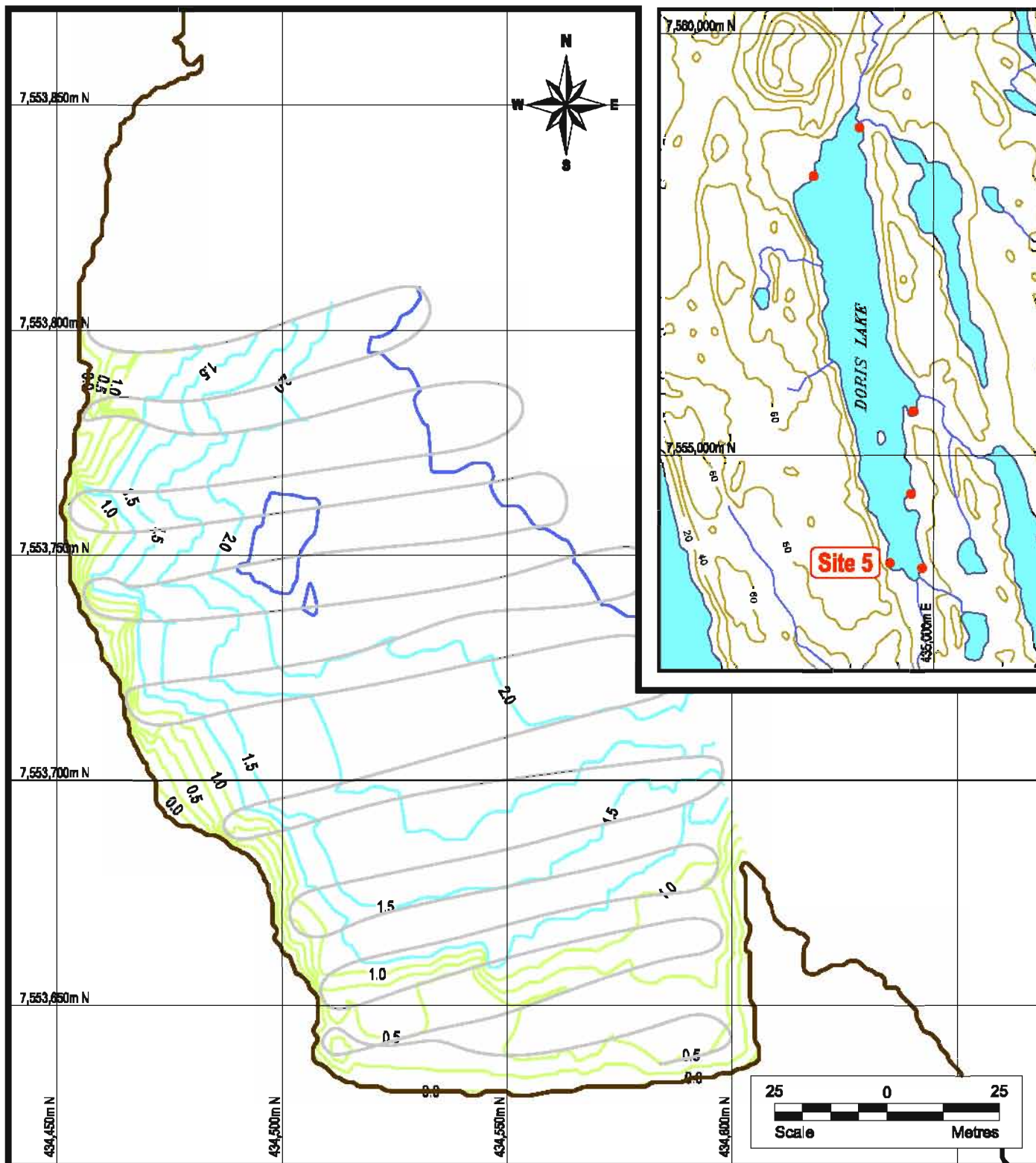
TITLE

Bathymetry of Doris Lake Rearing Enhancements Site 4



PROJECT No.		05-1373-014	FILE No.		1730666
DESIGN	AH	3/10/06	SCALE	As shown	REV. 0
CADD	RW	3/10/06	Figure: 4.4		
CHECK					
REVIEW					

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LEGEND

- Shoreline
- 0.25 - 1.0 m contour lines
- 1.25 - 2.0 m contour lines
- 2.25 - 3.0 m contour lines
- Transect line

Bathymetric contour interval: 0.25m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



TITLE

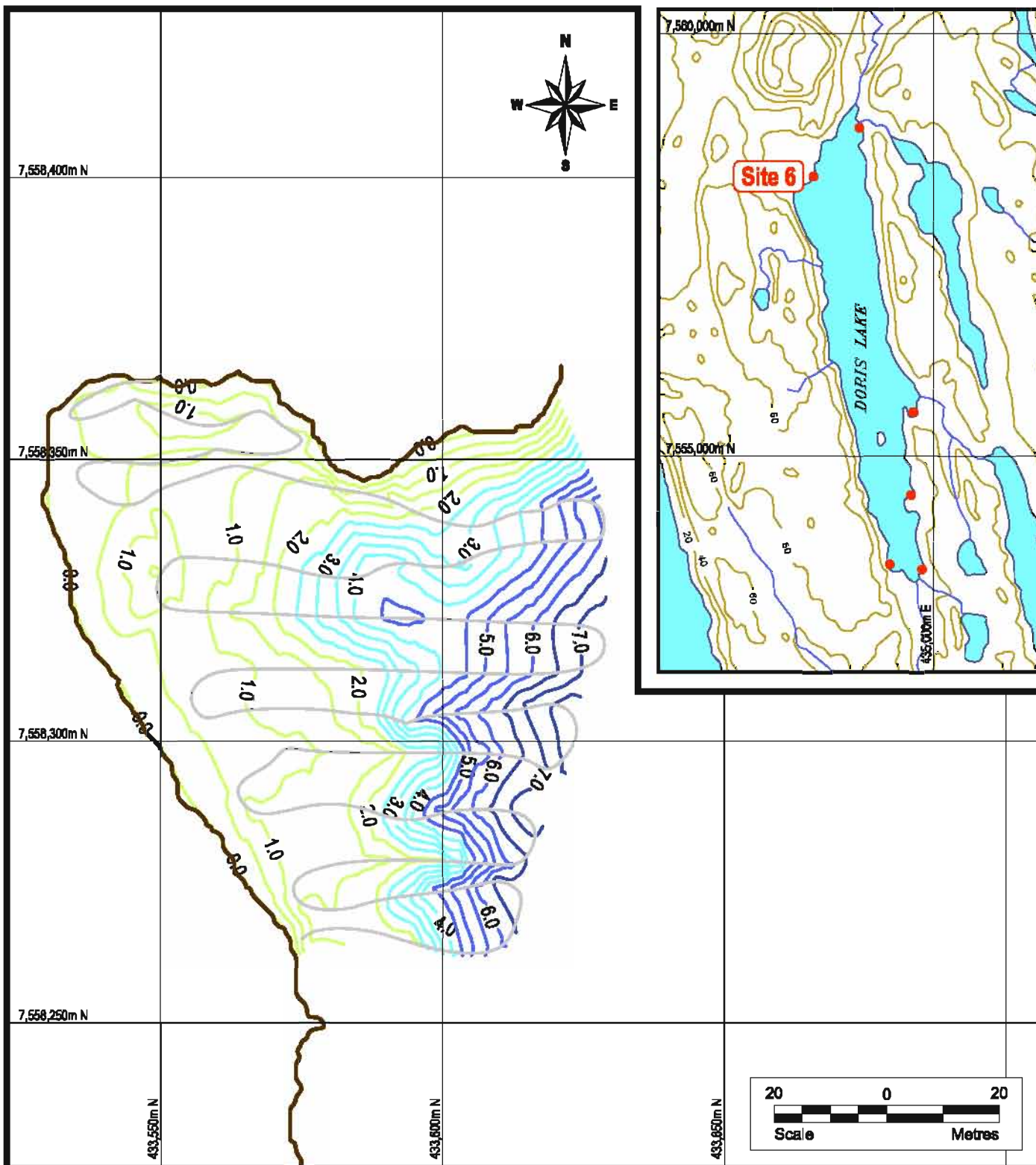
Bathymetry of Doris Lake Rearing Enhancements Site 5



PROJECT No.	05-1373-014	FILE No.	1730687
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CADD	RW	3/10/06	REV. 0
CHECK			
REVIEW			

Figure: 4.5

C:\p1\proj\1573\Aquatics\014_Miramar\4.6 - 1730688_slic05_tread11.dwg Jun. 9, 2006 (2:04 pm)



LEGEND

- Shoreline
- 0.5 - 2.0 m contour lines
- 2.5 - 4.0 m contour lines
- 4.5 - 6.0 m contour lines
- 6.5 - 8.0 m contour lines
- Transect line

Bathymetric contour interval: 0.5m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.

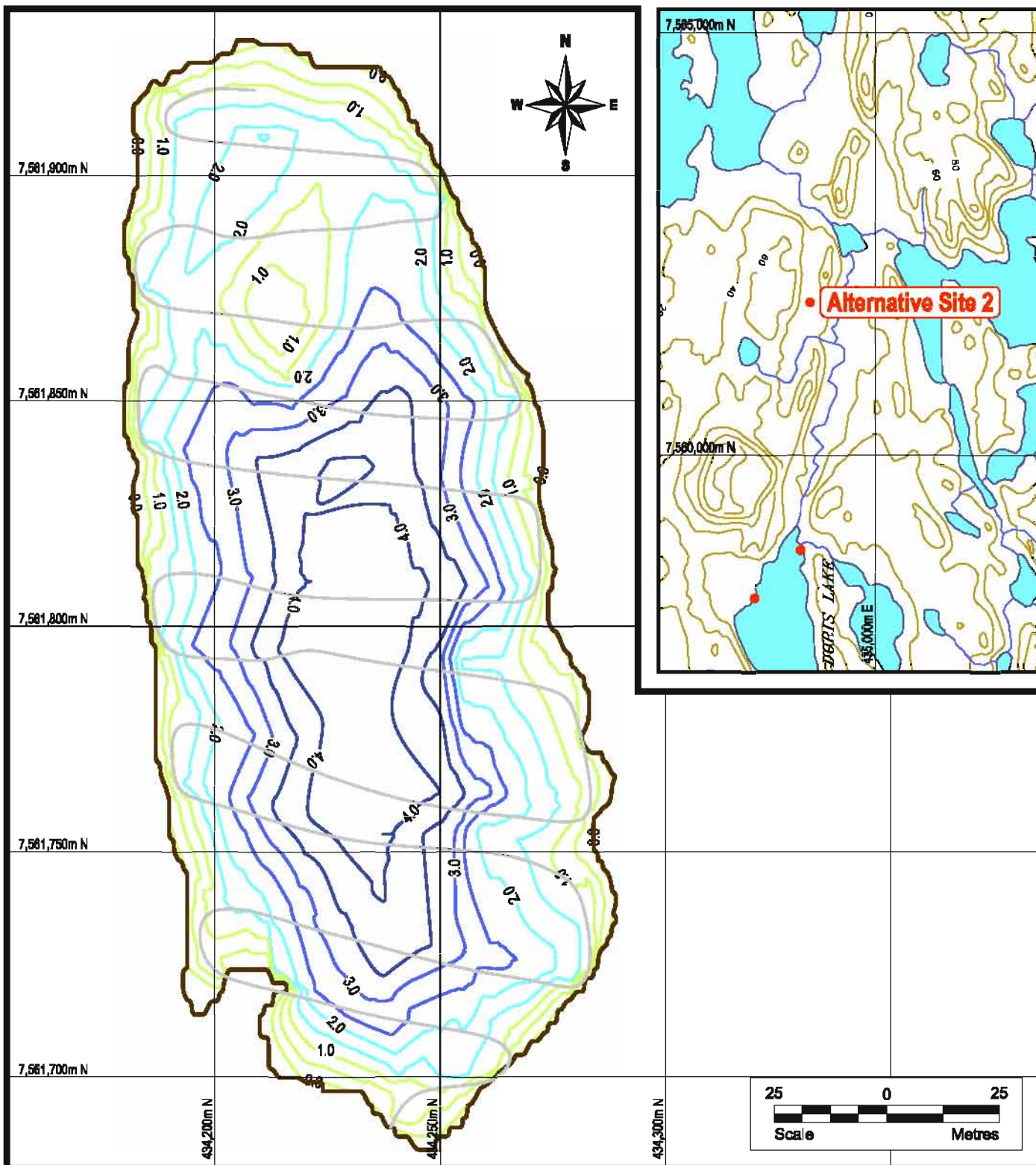


TITLE

Bathymetry of Doris Lake Rearing Enhancements Site 6



PROJECT No.			05-1373-014	FILE No.	1730688
DESIGN	AH	31/06/06		SCALE	As shown
CADD	RW	31/06/06		REV.	0
CHECK				Figure: 4.6	
REVIEW					



LEGEND

- Shoreline
- 0.5 - 1.0 m contour lines
- 1.5 - 2.0 m contour lines
- 2.5 - 3.0 m contour lines
- 3.5 - 4.0 m contour lines
- Transect line

Bathymetric contour interval: 0.5m

REFERENCE

1. Transects for bathymetry provided by Golder Associates Ltd., May 2006.



TITLE

Bathymetry of Tailings Alternate Site 2



PROJECT No. 05-1373-014			FILE No. 1730608		
DESIGN	AH	3/10/06	SCALE	As shown	REV. 0
CADD	RW	3/10/06	Figure: 4.7		
CHECK					
REVIEW					

4.4 QUARRY 2 PONDS 2A AND 2B

The Quarry 2 ponds are located on the west side of Doris Ridge, near the proposed rock quarry site 2 (Figures 5.1 and 5.2). Quarry 2 Pond 2a (south pond) is larger than Pond 2b (north pond) (Plate 8). The majority of the shoreline habitat of both ponds is gently sloped, comprised of fines, and vegetated with grass. Floating algal mats are abundant in Pond 2b. There are also some boulder areas along the shore in both ponds, however very soft silt dominates. Maximum depths of ponds 2a and 2b are estimated to be 1 m and 2 m, respectively. Therefore it is likely that both ponds freeze completely during winter.

There is an outflow on the west side of Pond 2a, which drains towards Glenn Lake, however upstream fish passage is unlikely due to it's small size, dispersed flow through grass, and localized areas of high gradient. Discharge was measured to be 0.0004 m³/s on 25 August.

4.5 QUARRY 3 PONDS 3A AND 3B

The Quarry 3 ponds are located on the east side of Tail Lake, near the proposed rock quarry site 3 (Figures 5.1 and 5.2, Plate 9). Small fish sampling was conducted to identify fish communities that may be present in these ponds, as blasting creates shock waves that could injure or kill fish close to the blast ("NNLP" Golder 2005a).

Pond 3a is approximately 350 m long, from the north shore to the south shore. The shoreline is vegetated with grasses and has a shallow slope. Near shore habitat is loosely compacted silt and aquatic vegetation. Aerial assessment of Pond 3a indicated that the maximum depth likely exceeds 2 m. Pond 3b is approximately 115 m long, from the north shore to the south shore. Shoreline features are similar to pond 3a, with shallow slope, grasses, and soft sediments, however aerial assessment indicated that Pond 3b is likely does not exceed 1.5 m. Although the area between the ponds was saturated, flow was not observed between the ponds or within the outlet channel of Pond 3b, which the drainage path follows to another small waterbody before emptying into a small lake within Pelvic outflow.

5.0 FISH POPULATIONS

5.1 METHODS

Fish sampling was conducted in selected lakes and streams within the Doris North Project area based on data gaps identified during the Nunavut Impact Review Board (NIRB) hearings in July 2004, and identified in the submission of the “No Net Loss” Plan (NNLP) Revision 4 to Department of Fisheries and Oceans (DFO) in May 2005. The specific objectives of the 2005 fisheries field program related to the fish population section included:

- continued monitoring of use of the Roberts Lake system by Arctic char;
- assessing small fish use of near-shore habitat in Roberts Lake, Pelvic Lake and Doris Lake;
- assessing small fish use of Roberts outflow, Pelvic outflow, Tail Outflow, Roberts Lake tributaries and Pelvic Lake tributaries;
- assessing fish use of Roberts Bay in the area of the proposed jetty
- assessing fish use of a potential alternate tailings impoundment site (TA2);
- assessing small fish use of four small ponds near the proposed rock quarry blasting sites; and
- collecting bathymetry data for six proposed rearing enhancement sites in Doris Lake and for TA2.

Figures 5.1 and 5.2 provide the fish sampling locations and methods used during the 2005 program. Fish sampling in Roberts Outflow was conducted between Roberts Lake and Little Roberts Lake using two fish fences with traps, and backpack electrofishing. The fish fences and traps were located upstream and downstream of the boulder garden in Roberts Outflow. Fish sampling in Roberts Lake involved angling, backpack electrofishing and use of modified Arctic fyke nets. In Doris Lake, fish sampling was conducted using backpack electrofishing, Gee minnow traps and angling. A bi-directional Arctic fyke net, angling and beach seines were used to sample fish in Roberts Bay. Large fish were sampled by angling in Tail Lake. A modified Arctic fyke net and backpack electrofishing were used to sample fish in Pelvic Outflow. Fish in TA2 and four small ponds near the proposed rock quarry sites were sampled with Gee minnow traps and backpack electrofishing. Fish sampling in Pelvic Lake, Doris, Ogama and Tail outflows, and select tributaries to Roberts and Pelvic lakes was conducted with backpack electrofishers.

5.1.1 Life History Data Collection

Fish life history information was collected from all fish captured, except during high catches in the Roberts Bay fyke net, where fish were counted by species and released to minimize handling mortality. Fish were identified to species, measured (fork length to the nearest mm), and weighed (g). Fish larger than 300 mm in fork length were tagged with a uniquely numbered Hall Print™ tag to assess their movements through subsequent recaptures. Additional life history data were collected from fish that had succumbed during sampling; data collected included sex and maturity, reproductive status, and stomach contents.

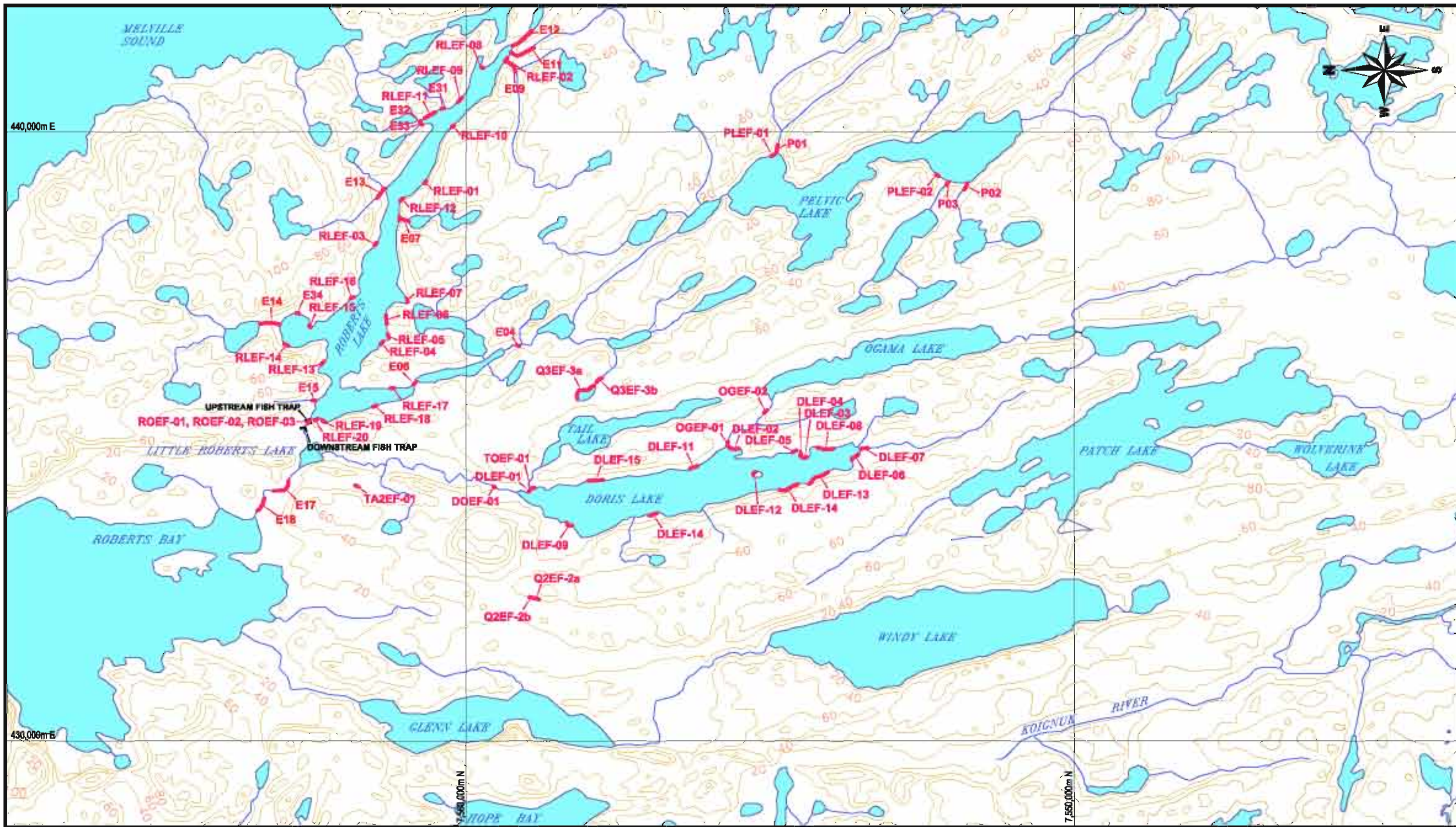
To facilitate data recording and presentation of results, all captured fish were assigned a four-letter species code. The common and scientific names of fish species captured in 2005, as well as their coded abbreviations, are presented in Table 5.1.

Table 5.1 Common and scientific names of fish species captured in the Doris North Project Area, 2005.

Family	Common name	Scientific name	Code
Clupeidae	Pacific herring	<i>Clupea pallasii</i> Valenciennes	PCHR
Cottidae	Fourhorn sculpin	<i>Myoxocephalus quadricornis</i> (Linnaeus)	FRSC
Gasterosteidae	Ninespine stickleback	<i>Pungitius pungitius</i> (Linnaeus)	NNST
Gadidae	Saffron cod	<i>Eleginus gracilis</i> (Tilesius)	SFCD
Pleuronectidae	Arctic flounder	<i>Pleuronectes glacialis</i> Pallas	ARFL
	Starry Flounder	<i>Platichthys stellatus</i> (Pallus)	STFL
Salmonidae	Arctic char	<i>Salvelinus alpinus</i> (Linnaeus)	ARCH
	Lake trout	<i>Salvelinus namaycush</i> (Walbaum)	LKTR
	Lake whitefish	<i>Coregonus clupeaformis</i> (Mitchill)	LKWH
	Cisco	<i>Coregonus artedii</i> Lesueur	CISC

5.1.2 Fish Fence

Two fish fences with traps were erected in Roberts Outflow to monitor the fall migration of Arctic char from the ocean to over-wintering habitat in Roberts Lake. The fences were erected such that there was one fence downstream (Plate 10) and one fence upstream of the boulder garden in Roberts Outflow. During periods of moderate to low flow, this boulder garden has been shown to be an impediment to Arctic char migration between the ocean and Roberts Lake (RL&L/Golder 2002). The lower fence and trap were installed on 3 August and removed on 12 September 2005, while the upper fence and trap were installed on 4 August and removed on 12 September 2005.



LEGEND

FISH TRAP

BACKPACK ELECTROFISHING

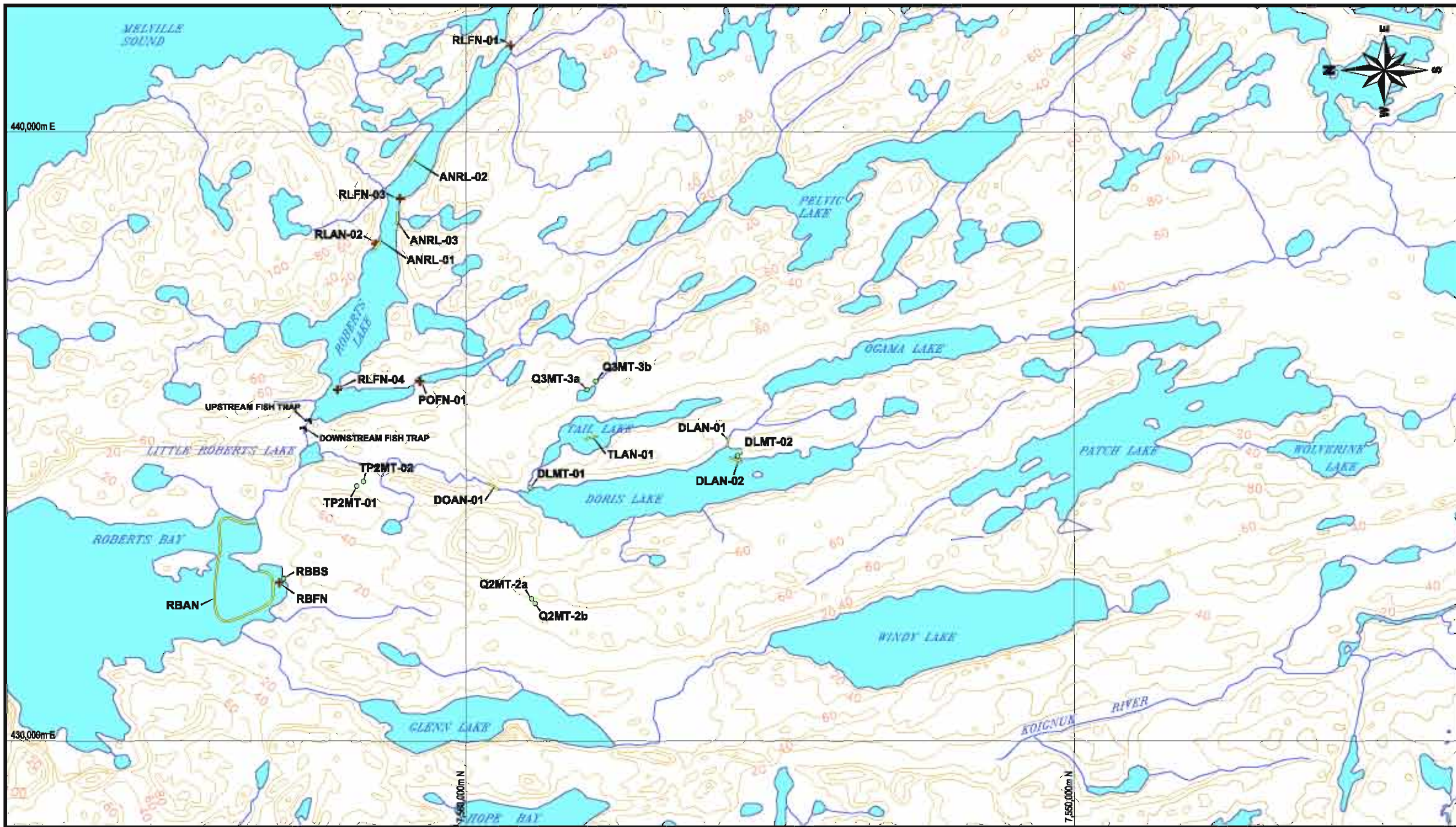
Miramar
MINING CORPORATION



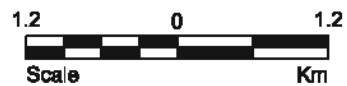
NOTE : CONTOUR INTERVAL 20 m

REFERENCE
BASE MAP PROVIDED BY RESCAN,
22 JANUARY 2001

TITLE					
BACKPACK ELECTROFISHING SAMPLING SITES IN THE DORIS NORTH PROJECT AREA, 2005					
		PROJECT No. 05-1379-014		FILE No. 1730976	
DESIGN	AH	16/11/06	SCALE	AS SHOWN	REV 0
CADD	RW	16/11/06			
CHECK					
REVIEW					
				FIGURE: 5.1	



- LEGEND**
- FISH TRAP
 - FYKE NET (FN)
 - MINNOW TRAP (MT), BEACH SEINE (BS)
 - ANGLING (AN)



NOTE : CONTOUR INTERVAL 20 m

REFERENCE
BASE MAP PROVIDED BY RESCAN,
22 JANUARY 2001

TITLE
**TRAP, NET AND ANGLING SAMPLING SITES
IN THE DORIS NORTH PROJECT AREA, 2005**

PROJECT No. 05-1373-014		FILE No. 1730978	
DESIGN	AH	SCALE	AS SHOWN
CADD	RW	16/11/08	REV 0
CHECK			
REVIEW			



FIGURE: 5.2

Fence construction for the two sites was very similar and consisted of either two (for the lower fence) or four (for the upper fence) metal panels (each 3.1 m in length and 1.5 m in height) and a trap. The panels consisted of metal frames with removable conduit rods (1.8 cm in diameter). The spacing between the rods was 1.9 cm. The panels were supported by wooden “A” frames and sandbagged into position. Fish migrating upstream were funnelled into the trap box located near the right downstream bank (lower fence) or mid-stream (upper fence).

The traps consisted of a metal frame (1.8 m long, 1.2 m wide, and 1.5 m high) perforated with holes for holding vertical conduit sections that formed the trap walls. The entrance to the trap consisted of a conduit funnel, similar in construction to the trap walls, allowing the opening width to be adjusted to maximize capture and minimize escape.

Each fish fence was checked once or twice daily to monitor daily or diurnal movement patterns. Information recorded during each trap check included date, time of day, water temperature and life history data from captured fish. All captured fish were released immediately upstream of the fence.

5.1.3 Fyke Netting

Arctic fyke nets and modified Arctic fyke nets were used to sample fish depending on the objective for each waterbody. An Arctic fyke net was used to sample fish in Roberts Bay and Pelvic Outflow. In Roberts Bay, the Arctic fyke net consisted of two trap nets, two 15 m wings, and a 60 m lead to shore. The trap nets were 3.7 m long and 0.9 m wide, contained two throats (15 × 25 cm each), and was constructed of 1.27 cm dark grey knotless nylon mesh. Wings and lead were also constructed of 2.54 cm dark grey knotless nylon mesh, and were 1.7 m deep. The lead net panel was set perpendicular to shore and separated the two trap nets. Wing net panels were attached to either side of the trap entrances and were stretched out parallel to shore (Plate 11). The combination of the lead panel and wings acted to confine and guide fish into the traps. Using two separate trap nets allowed directional catch data to be recorded.

After removal of the fyke nets from Roberts Bay, one fyke net was used in Pelvic Outflow. A single fyke net consisted of one trap net and two leads to opposite banks (Plate 12). A centre lead was not used. This arrangement functioned similar to the fish fence, as it blocked off the entire stream channel and captured all fish moving upstream into Pelvic Lake from Roberts Lake.

A modified Arctic fyke net was used to sample small fish in Roberts Lake. This net consisted of a single trap net, two 7.6 m wings, and a 7.6 m lead to shore. The trap was 0.9 m long and 0.9 m wide and contained two throats (7.5 x 7.5 cm

each). The trap, wings and lead were constructed of 1.0 cm dark grey knotless nylon mesh. The wings and lead were 0.9 m deep. The net was placed approximately 8 m off shore. A lead net panel was set perpendicular from shore and bisected the trap entrance. Wing net panels were attached to either side of the trap entrance and were stretched out parallel to shore. Fyke net sets were held in place by T-bar posts.

Fyke nets were checked daily. Information recorded during each net check included date, time of day, water temperature and life history data from captured fish.

5.1.4 Backpack Electrofishing

A Smith-Root Type XII backpack electrofisher was used to collect small fish in Roberts Lake, Doris Lake, Pelvic Lake, TA2, Roberts Outflow, Pelvic Outflow, Doris Outflow, Ogama Outflow, Tail Outflow, four small ponds near the two proposed quarry sites and tributaries to Roberts and Pelvic lakes. The operator waded upstream and sampled in the vicinity of suspected fish holding areas (e.g., under boulders, undercut banks) while the netter collected stunned fish and placed them in a holding bucket. Recorded information at each site included UTM coordinates, date and time of sampling, distance sampled, sampling effort (seconds), and electrofisher settings. Captured fish were allowed to recover, processed for life history information, and released into the area of capture.

5.1.5 Beach Seining

Beach seining for small fish was conducted east of the Arctic fyke net location in Roberts Bay in an area of suitable substrate (i.e., fine or small substrate). The beach seine was 9.1 m long, with a mesh size of 6 mm, and was equipped with a collection bag, with a mesh size of 3 mm. The length of each haul was recorded to determine catch-per-unit-effort. Similar to the other sampling methods, life history information, location, date, time, water temperature and substrate type were recorded.

5.1.6 Minnow Trapping

GeeTM minnow traps were used to sample small fish in Doris Lake, TA2 and four small ponds near two proposed quarry sites. The traps (40 cm long, 23 cm diameter in the middle, 19 cm diameter at each end) were two-piece wire enclosures with inverted funnel openings. They were baited with cat food or oysters and were set in near-shore habitats. Date, time, sampling location, depth, water temperature and substrate type were recorded for all minnow trap sets, and life history information was recorded for all captured fish.

5.1.7 Angling

Angling was conducted by either casting from shore or boat, or by trolling behind a boat. Barbless lures were used, and captured fish were processed for life history information before being tagged and released. Other recorded data included date and time of capture, location, hours fished and number of rods used.

5.1.8 Data Analysis

All life history data from individual fish were consolidated into one table (Appendix C1) and submitted to a thorough QA/QC procedure. The data were then used to calculate life history statistics that included:

- length-frequency distributions;
- length-weight relationships;
- mean, standard deviation, and range of length, weight, and condition factor data; and
- size characteristics for separate sex and maturity categories.

As an index of relative abundance, catch-per-unit effort (CPUE) values were calculated for each sampling method. CPUE values for fyke net, minnow trap, and fish fence catches are reported as number of fish captured per 24 hours of trap operation. CPUE values for angling are reported as number of fish captured per hour of angling with one rod. Backpack electrofishing CPUE values are reported as number of fish per 100 seconds; beach seining CPUE units are reported as number of fish per 100 m² of area seined.

5.2 LAKE COMMUNITIES

5.2.1 Doris Lake

The catch and size statistics for fish sampled in Doris Lake are summarized in Appendices C2 to C6 and Appendix C8; data from individual fish are presented in Appendix C1. Small fish were targeted along the shoreline within and adjacent to the proposed rearing enhancement areas, to assess current use of available rearing habitat in Doris Lake. Fish capture methods used to target small fish in Doris Lake included minnow trapping and backpack electrofishing while wading the shoreline or over the side of a boat, whereas large fish were targeted by angling.

5.2.1.1 Species Composition and Relative Abundance

In total, 145 fish representing four species were captured in Doris Lake (Table 5.2). Ninespine stickleback was the predominant species in the overall

catch (66%), followed by lake trout (30%), cisco (4.1%) and lake whitefish (0.7%). Angling was the most successful capture method for lake trout (Table 5.3). Despite considerable effort (Table 5.3), only one juvenile lake trout, one juvenile lake whitefish and six small cisco were captured in Doris Lake (Appendix C1).

Table 5.2 Number of fish captured in Doris Lake, 2005.

Capture Method	Ninespine stickleback	Lake trout	Lake whitefish	Cisco	Total
Angling		39			39
Backpack electrofishing	43	4	1	6	54
Minnow traps	52				52
Total	95 (65.5%)	43 (29.7%)	1 (0.7%)	6 (4.1%)	145 (100%)

Table 5.3 Catch-per-unit effort (CPUE^a) of fish captured in Doris Lake, 2005.

Capture Method	Effort	Ninespine stickleback	Lake trout	Lake whitefish	Cisco	Total
Angling	9.2 h		4.24			4.24
Backpack electrofishing	6922 s	0.62	0.06	0.01	0.09	0.78
Minnow traps	171.7 h	7.27				7.27

^a CPUE units: angling=fish/ h; electrofishing=fish/100 s; minnow traps=fish/24 h

5.2.1.2 Life History Data

Lake Trout

Size Distribution

Of the 43 lake trout captured in Doris Lake, three were juvenile and 40 were adults. Of the adult lake trout captured, one escaped prior to measurement, but was estimated to be approximately 700 mm in fork length. For the fish measured ($n=42$), fork lengths ranged from 142 to 803 mm, with a mean length of 628 mm (Appendix C8). Most (83%) captured fish were between 570 and 810 mm in fork length (Figure 5.3).

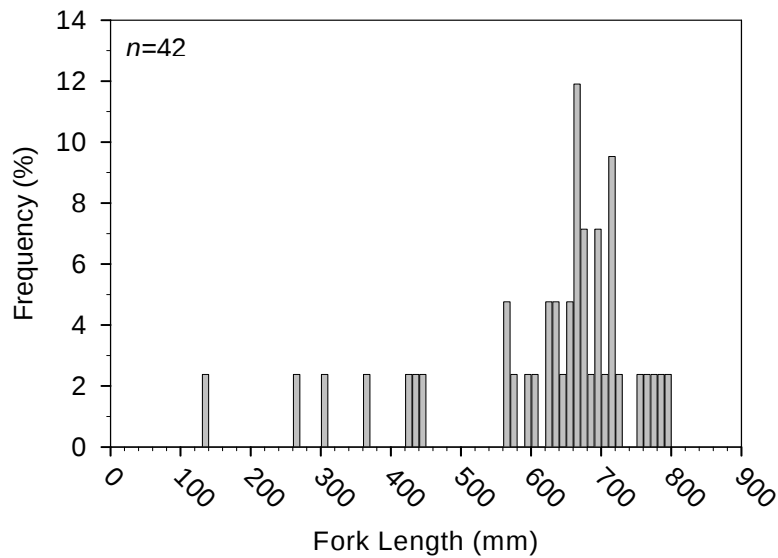


Figure 5.3 Length-frequency distribution of lake trout in Doris Lake, 2005.

Length-Weight Relationship

The length-weight relationship for lake trout captured in Doris Lake (Figure 5.4) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 5.517 \times 10^{-5} * L^{2.728} \quad (n=42, r^2=0.97)$$

The mean condition factor for lake trout in Doris Lake was 0.97 (range 0.77 to 1.49).

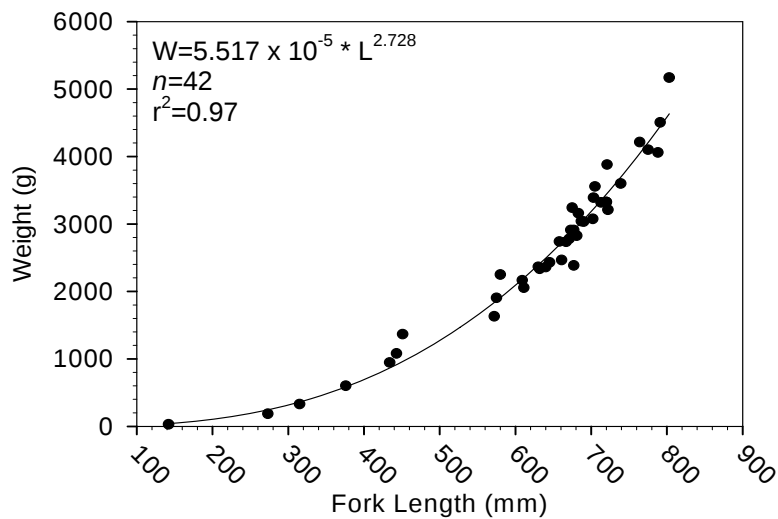


Figure 5.4 Length-weight relationship for lake trout captured in Doris Lake, 2005

Ninespine Stickleback

Ninety-five ninespine stickleback were captured in Doris Lake. Total lengths ranged from 18 to 83 mm, with a mean length of 29 mm (Appendix C8). Most (89%) captured fish were juveniles between 20 and 40 mm (Figure 5.5).

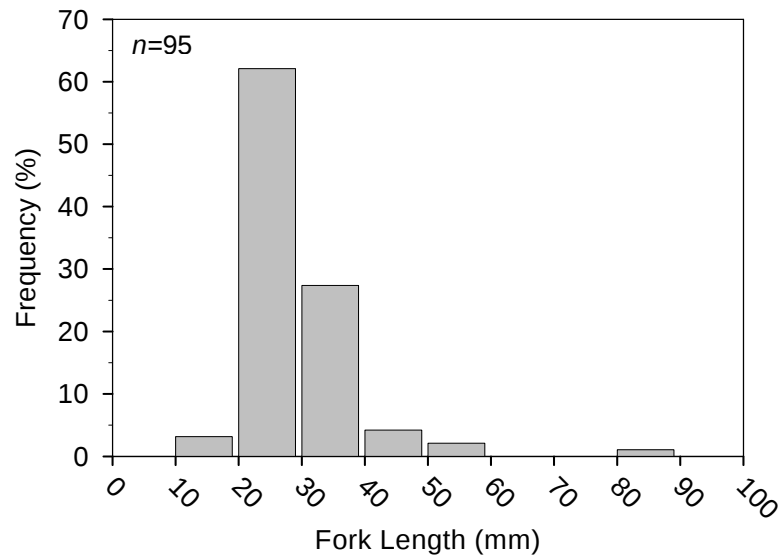


Figure 5.5 Length-frequency distribution for ninespine stickleback captured in Doris Lake, 2005

Cisco

Six juvenile cisco were captured along the south-west shore in Doris Lake. The mean fork length was 236 mm and the range was 212 to 259 mm. The mean condition factor was 1.09, with a range of 1.00 to 1.18 (Appendix C8).

Lake Whitefish

One juvenile lake whitefish was captured along the west shore, in a bay near the south end of Doris Lake. The fork length of this fish was 36 mm (Appendix C8).

5.2.2 Roberts Lake

The catch and size statistics for fish sampled in Roberts Lake are summarized in Appendices C2 to C6 and Appendix C8; data from individual fish are presented in Appendix C1. Fish capture methods used in Roberts Lake included fyke nets, backpack electrofishing, and angling. Both large and small fish were targeted.

5.2.2.1 Species Composition and Relative Abundance

Two hundred nineteen fish representing three species were captured in Roberts Lake (Table 5.4). Lake trout was the predominant species in the overall catch (65%), followed by arctic char (32%), and ninespine stickleback (1.4%). There were also char species that were observed (1.8%), but not captured or identified to species. Angling was the most successful capture method for large fish (Table 5.5).

Table 5.4 Number of fish captured in Roberts Lake, 2005.

Capture Method	Arctic char	Lake trout	Ninespine stickleback	Unidentified char spp.	Total
Angling		96			96
Backpack electrofishing	66	35	3	4	108
Fyke nets	3	12			15
Total	69 (31.5%)	143 (65.3%)	3 (1.4%)	4 (1.8%)	219 (100%)

Table 5.5 Catch-per-unit effort (CPUE^a) of fish captured in Roberts Lake, 2005.

Capture Method	Effort	Arctic char	Lake trout	Ninespine stickleback	Unidentified char spp.	Total
Angling	48.7 h		1.97			1.97
Backpack electrofishing	9248 s	0.71	0.38	0.03	0.04	1.17
Fyke nets	307.0 h	0.23	0.94			1.17

^a CPUE units: fyke net = fish/24 h; electrofishing = fish/100 s, angling = fish/h.

5.2.2.2 Life History Data

Arctic Char

Size Distribution

Of the 69 Arctic char captured in Roberts Lake, 63 were juveniles, and six were observed but not measured. Arctic char are likely rearing in Roberts Lake or nearby stream habitats. Fork lengths ranged from 38 to 195 mm, with a mean length of 69 mm (Appendix C8). Most (90%) captured fish were between 30 and 120 mm (Figure 5.6)

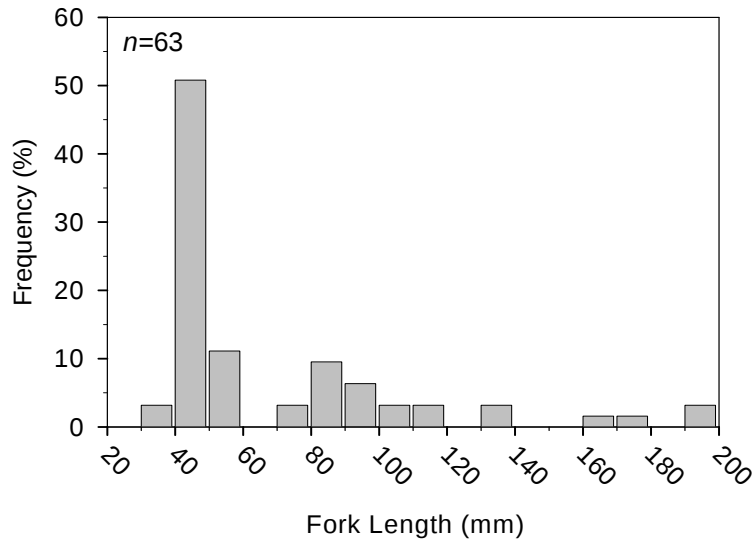


Figure 5.6 Length-frequency distribution for Arctic char captured in Roberts Lake, 2005

Length-Weight Relationship

The length-weight relationship for juvenile Arctic char captured in Roberts Lake (Figure 5.7) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 6.344 \times 10^{-4} * L^{2.200} \quad (n=6, r^2=0.96)$$

The mean condition factor for Arctic char in Roberts Lake was 1.08 (range 0.87 to 1.25).

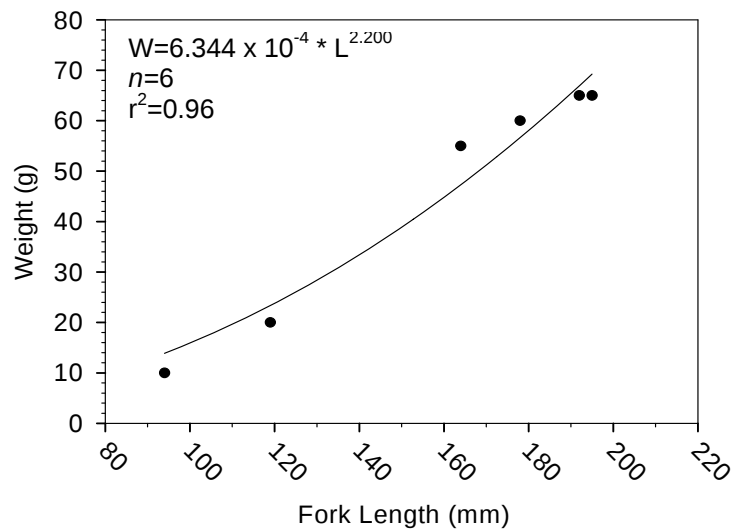


Figure 5.7 Length-weight relationship for juvenile Arctic char captured in Roberts Lake, 2005

Lake Trout

Size Distribution

Of the 143 lake trout captured in Roberts Lake, 34 were juveniles, 106 were adults and three escaped before measurements were recorded. Fork lengths ranged from 35 to 977 mm, with a mean length of 480 mm (Appendix C8). The length-frequency distribution appears tri-modal. Most (41%) captured fish were between 640 and 900 mm. Twenty-six percent of captured fish were between 340 and 530 mm, and 16% were between 30 and 120 mm (Figure 5.8).

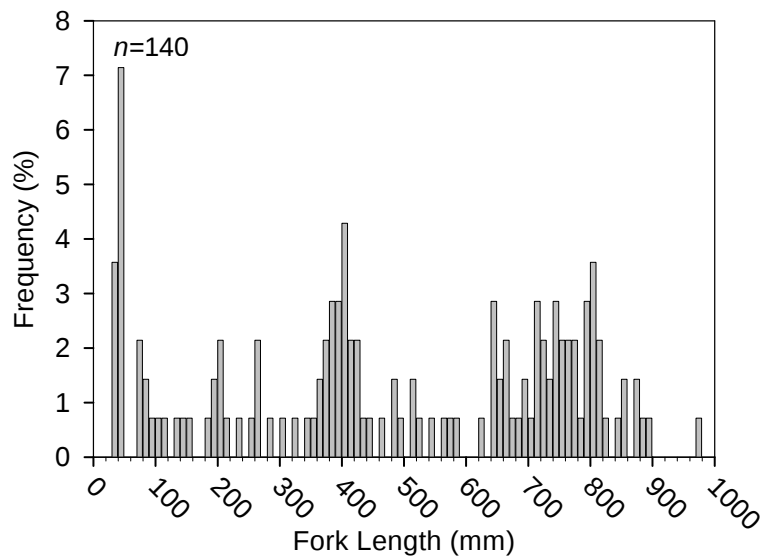


Figure 5.8 Length-frequency distribution of lake trout in Roberts Lake, 2005

Length-Weight Relationship

The length-weight relationship for lake trout captured in Roberts Lake (Figure 5.9) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 3.626 \times 10^{-5} * L^{2.815} \quad (n=115, r^2=0.98)$$

The mean condition factor for lake trout in Roberts Lake was 1.07 (range 0.62 to 1.46).

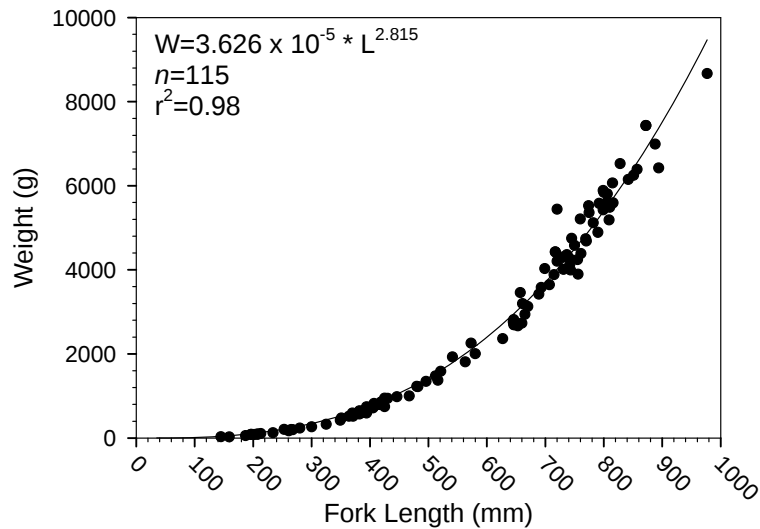


Figure 5.9 Length-weight relationship for lake trout captured in Roberts Lake, 2005

Ninespine stickleback

Despite considerable effort to capture small fish, only three ninespine stickleback were captured in Roberts Lake. The mean fork length was 30 mm and the range was 22 to 34 mm (Appendix C8).

5.2.3 Tail Lake

The catch and size statistics for fish sampled in Tail Lake are summarized in Appendices C6 and Appendix C8; data from individual fish are presented in Appendix C1. Angling was used to capture large fish in Tail Lake on one sampling date.

5.2.3.1 Species Composition and Life History

Three adult lake trout were captured in Tail Lake. The mean fork length was 563 mm, with a range of 545 to 575 mm (Appendix C8). The mean condition factor for lake trout was 0.92 (range 0.83 to 1.05), which was lower than the mean condition factor for all other water-bodies sampled in 2005 (Appendix C8), and is similar to the mean condition factor reported in previous years (0.94 in 2002 and 0.96 in 2004; RL&L/Golder 2002, Golder 2005b).

5.2.4 Pelvic Lake

The catch and size statistics for fish sampled in Pelvic Lake are summarized in Appendices C2 to C6 and Appendix C8; data from individual fish are presented in Appendix C1. Backpack electrofishing was used to capture small fish in Pelvic Lake on one sampling date.

5.2.4.1 Species Composition and Life History

One young-of-the-year cisco was captured in Pelvic Lake, and one ninespine stickleback was observed but was not captured. The fork length of the cisco was 55 mm (Appendix C8).

5.2.5 Tailings at Alternate Site 2 (TA2)

The catch and size statistics for fish sampled in TA2 are summarized in Appendices C2 to C6 and Appendix C8; data from individual fish are presented in Appendix C1. Fish capture methods used at this site included backpack electrofishing and minnow traps.

5.2.5.1 Species Composition and Life History

Two hundred fifty-nine ninespine stickleback were captured in TA2 (Table 5.6). The mean fork length was 38 mm, with a range of 19 to 61 mm (Appendix C8). Fifty-eight percent of the captured fish were between 40 and 60 mm, and 35% were between 20 and 30 mm (Figure 5.10).

Table 5.6 Catch and catch-per-unit effort (CPUE^a) of fish captured in Tailings Alternate Site 2, 2005.

Capture Method	Effort	Ninespine stickleback	
		n	CPUE
Backpack electrofishing	527 s	57	10.82
Minnow traps	278.4 h	202	17.41
Total		259	

^a CPUE units: minnow trap = fish/24 h; electrofishing = fish/100 s

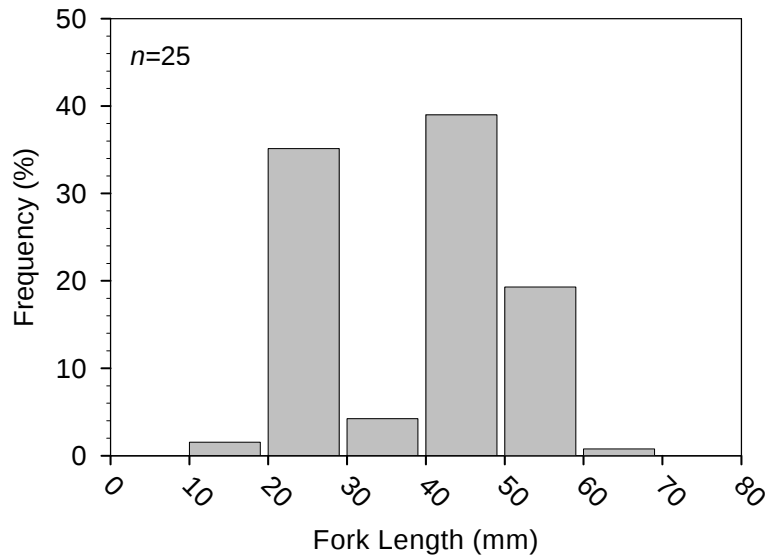


Figure 5.10 Length-frequency distribution for ninespine stickleback captured in Tailings Alternate Site 2, 2005

5.2.6 Quarry 2 Ponds 2a and 2b

Fish capture methods used in Quarry 2 Ponds 2a and 2b included backpack electrofishing and minnow traps. Fish were not captured in either pond 2a or 2b.

5.2.7 Quarry 3 Ponds 3a and 3b

Fish capture methods used in Quarry 3 ponds included backpack electrofishing and the use of minnow traps. Fish were not captured in either pond 3a or 3b.

5.3 STREAM COMMUNITIES

This section of the report focuses primarily on fish use within Roberts Outflow, as this is the primary location for fisheries compensation outlined in the “No Net Loss Plan” Revision 4 (Golder 2005a) for the project. Sampling was also conducted in tributaries to Roberts, Pelvic and Doris lakes, and Pelvic Outflow.

The catch rates and size statistics for fish species sampled in streams are summarized in Appendices C2 to C8; data from individual fish are presented in Appendix C1. Fish sampling in most streams was conducted with a backpack electrofisher. In addition to backpack electrofishing, fish sampling in Roberts Outflow included fish fences, and fish sampling in Pelvic Outflow included an Arctic fyke net.

5.3.1 Roberts Outflow

5.3.1.1 Species Composition and Relative Abundance

In total, 381 fish representing four species were encountered in Roberts Outflow during August and September 2004 (Table 5.7). Arctic char was the predominant species in the overall catch (73.2%), followed by lake trout (25.2%), ninespine stickleback (1.3%) and lake whitefish (0.3%).

Table 5.7 Number of fish encountered^a in Roberts Outflow, 2005.

Species	Fish Fence		Electrofishing		Total	
	no.	%	no.	%	no.	%
Arctic char	192	69.8	87	82.1	279	73.2
Lake trout	82	29.8	14	13.2	96	25.2
Lake whitefish	1	0.4			1	0.3
Ninespine stickleback			5	4.7	5	1.3
Total	275	100.0	106	100.0	381	100.0

^a includes only the first-time capture for fish that were recaptured on multiple occasions in 2005

Fish Fence

To monitor the number of fish migrating upstream through the boulder garden located in Roberts Outflow, a fish fence was installed at the downstream end (termed the “lower trap”) and at the upstream end (termed the “upper trap”) of the boulder garden section. This is the fourth year that this monitoring program has been conducted (i.e., 2002 to 2005). It should also be noted that Rescan floy tagged fish during their field program between 1995 and 2000.

In total, 275 fish were encountered in 2005 at the fish fences in Roberts Outflow (not including fish that were captured more than once this year). Most fish were Arctic char (69.8%), followed by lake trout (29.8%; Table 5.7). During the 40 days that the fish fences were in place, there were five days (12.5% of the time) when Arctic char were not encountered in the lower trap and 11 days (27.5% of the time) when Arctic char were not encountered in the upper trap. Similarly, there were 16 days (40%) when lake trout were not captured in the lower trap and 20 days (50%) when they were not captured in the upper trap (Table 5.8).

Table 5.8 Summary of the dates when Arctic char and lake trout were not captured at the fish fences.

Arctic char		Lake trout	
Lower Trap	Upper Trap	Lower Trap	Upper Trap
Aug 8	Aug 4 – 5	Aug 14 – 15	Aug 4
Aug 14	Aug 8	Aug 17	Aug 6
Aug 19	Aug 10	Aug 19 – 20	Aug 15
Aug 29	Aug 12	Aug 24 – 26	Aug 17
Sep 9	Sep 2	Aug 29 – 30	Aug 22
	Sep 8 – 12	Sep 2	Aug 24
		Sep 4 – 6	Aug 26
		Sep 8 - 9	Aug 30 – 31
			Sep 2 – 12
n = 5	n = 11	n = 16	n = 20

The number of Arctic char entering the lower trap on a daily basis varied greatly (Figure 5.11). The maximum number of Arctic char that passed through the lower trap in a day was 13 fish on 25 August, and the mean number was five fish per day. In the upper trap, most Arctic char (78%) were captured between 13 and 31 August (Figure 5.11). The maximum number of Arctic char that passed through the upper trap in a day was 10 fish on 26 August, and the mean number was two fish per day. Arctic char were not captured in the upper trap after 7 September (Table 5.8).

The size distribution of Arctic char passing through the lower fish trap varied over time (Figure 5.12). From the beginning to mid-August, larger size-classes (>600 mm in fork length) dominated. During mid to late August, smaller size-classes were more equally represented (43% of fish) but larger size-classes appeared to be dominant (>700 mm fork length: 53% of fish). From late August to early September, smaller size-classes (<500 mm in fork length) dominated, and 30% of fish represented larger size-classes. Between early September and mid-September, smaller size-classes (<500 mm fork length) were dominant.

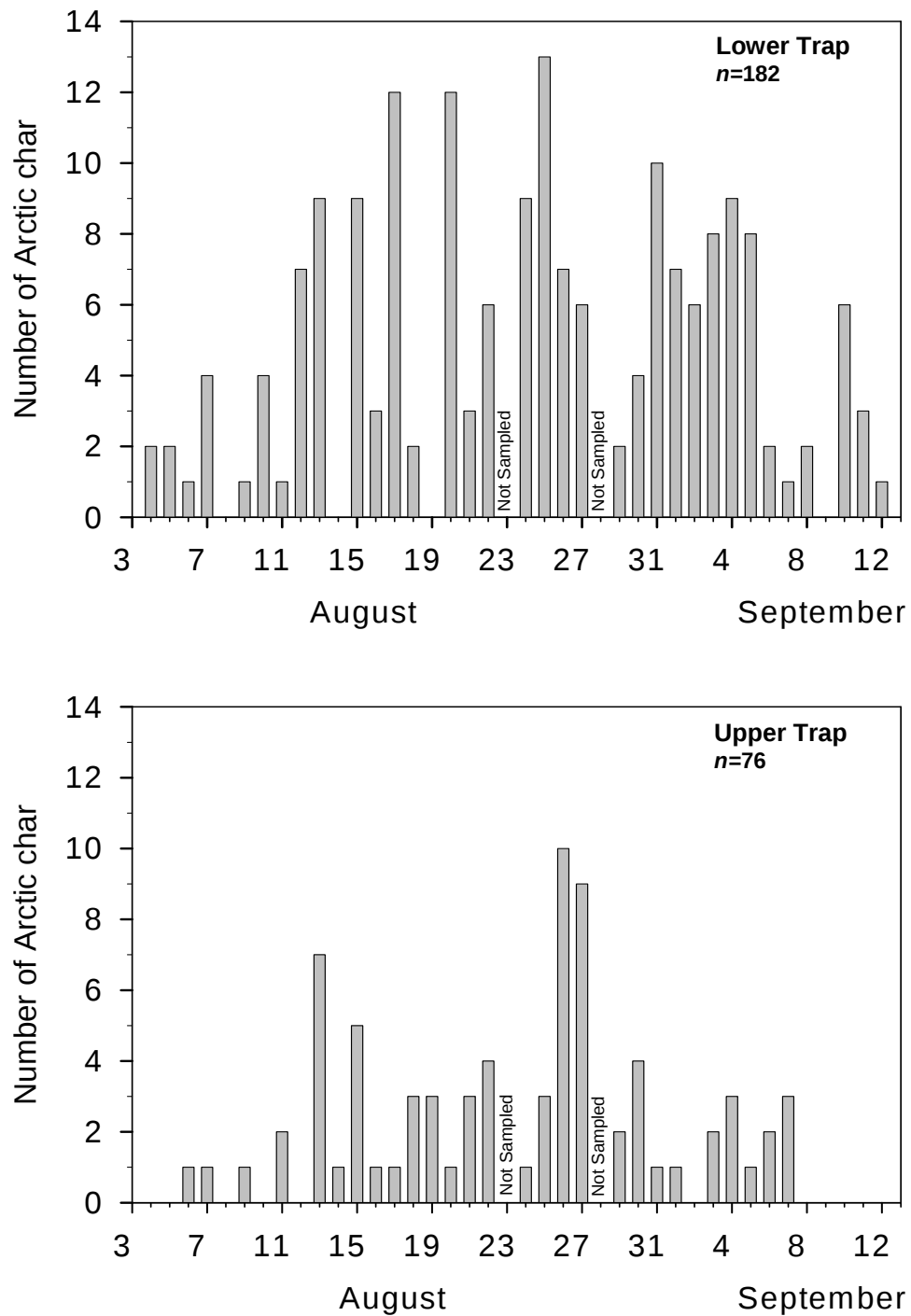


Figure 5.11 Daily catches of Arctic char in the fish fences in Roberts Outflow, 2005.

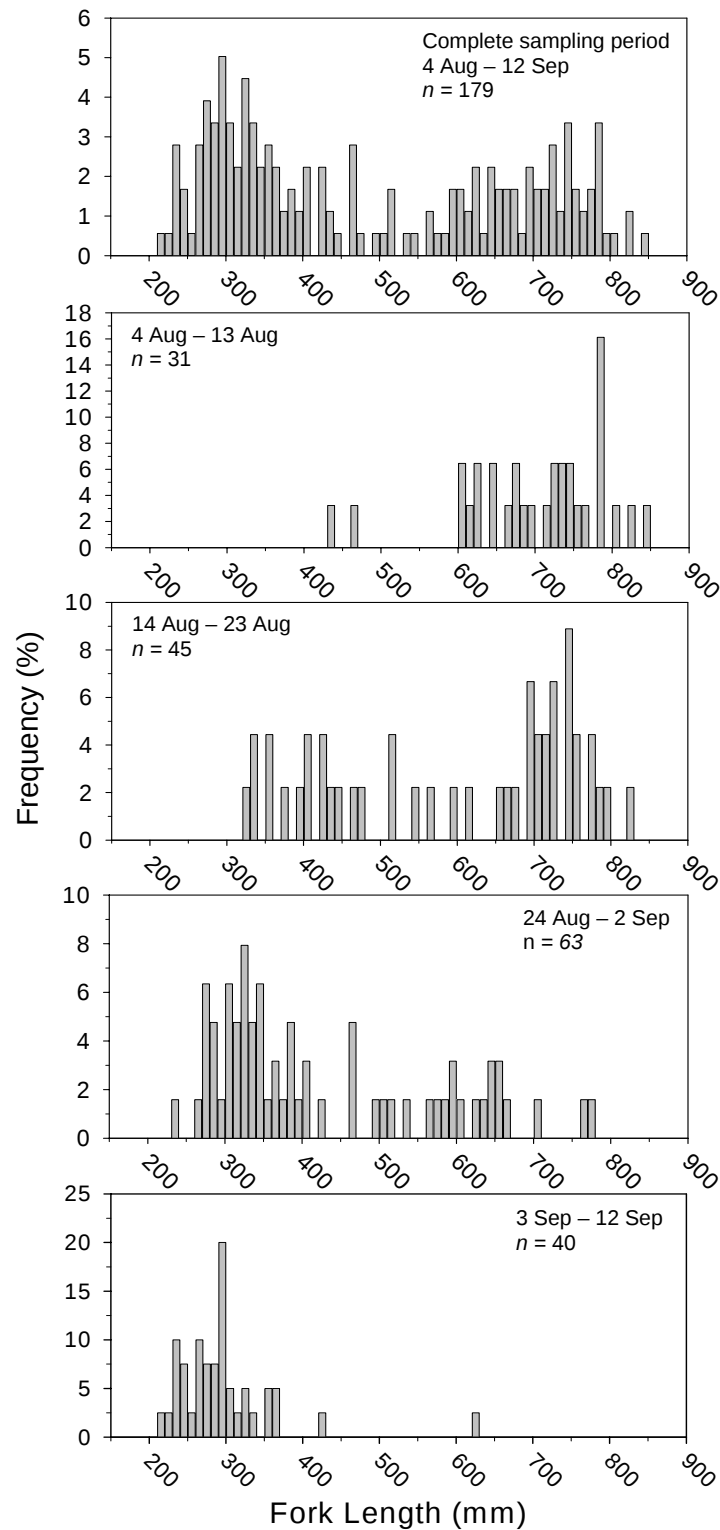


Figure 5.12 Temporal changes in length-frequency distribution of Arctic char captured at the fish fence in Roberts Outflow, 2005.

In contrast to Arctic char, most lake trout (68%) passed through the lower trap in early-August (4 to 13 August; Figure 5.14). The maximum number of lake trout recorded daily in the lower trap was 14 fish on 7 August. The mean number of lake trout encountered within the 40 day sampling period (2.3 fish per day) was lower than for Arctic char. In the upper trap, 65% of lake trout were captured between 5 and 21 August (Figure 5.13). The maximum number of Arctic char that passed through the upper trap in a day was six fish on 27 August and the mean number was 1.5 fish per day. Lake trout were not captured after 1 September (Table 5.8).

The size distribution of lake trout passing through the lower fish fence was similar over time (Figure 5.14). From the beginning to mid-August, the dominant fish size-classes ranged from 400 to 600 mm fork length. During mid-August to mid-September, the dominant size-classes of fish ranged between 400 and 500 mm fork length.

The number of initial encounters of fish that passed through the fish fence traps during 2005 included 193 Arctic char, 85 lake trout, and 1 lake whitefish. Fifteen fish were captured in the upper trap, but not the lower trap. On 28 August, strong winds collapsed the lower fence and half of the upper fence. This event may explain 11 of the fish that were only caught in the upstream trap. The other four fish that were captured only in the upstream trap may have been holding in the deepwater pool between the fences prior to installation. The number of recaptures encountered in the traps from previous years (i.e., 2000, 2002, 2003 and 2004) accounted for 21% of the Arctic char catch ($n=40$ of 189) and 44% of the lake trout catch ($n=37$ of 85; Table 5.9).

Table 5.9 Number of fish captured and recaptured in the fish fences Roberts Outflow, 2005.

Species	Initial Captures in 2005	Initial Captures in Lower Trap during 2005	Fish Captured only in Upper Trap during 2005	Fish Recaptured in Upper Trap during 2005	Number of Recaptures from Previous Years			
					2004	2003	2002	2000
Arctic char	193 ^a	179 ^b	10	62	17	17	5	1
Lake trout	85	80	5	41	17	12	3	5
Lake whitefish	1	1						
Total	279	260	15	103	34	29	8	6

^a Includes four untagged Arctic char that were captured in the upstream trap

^b Only the initial capture was recorded for three fish that were captured in the lower trap more than once

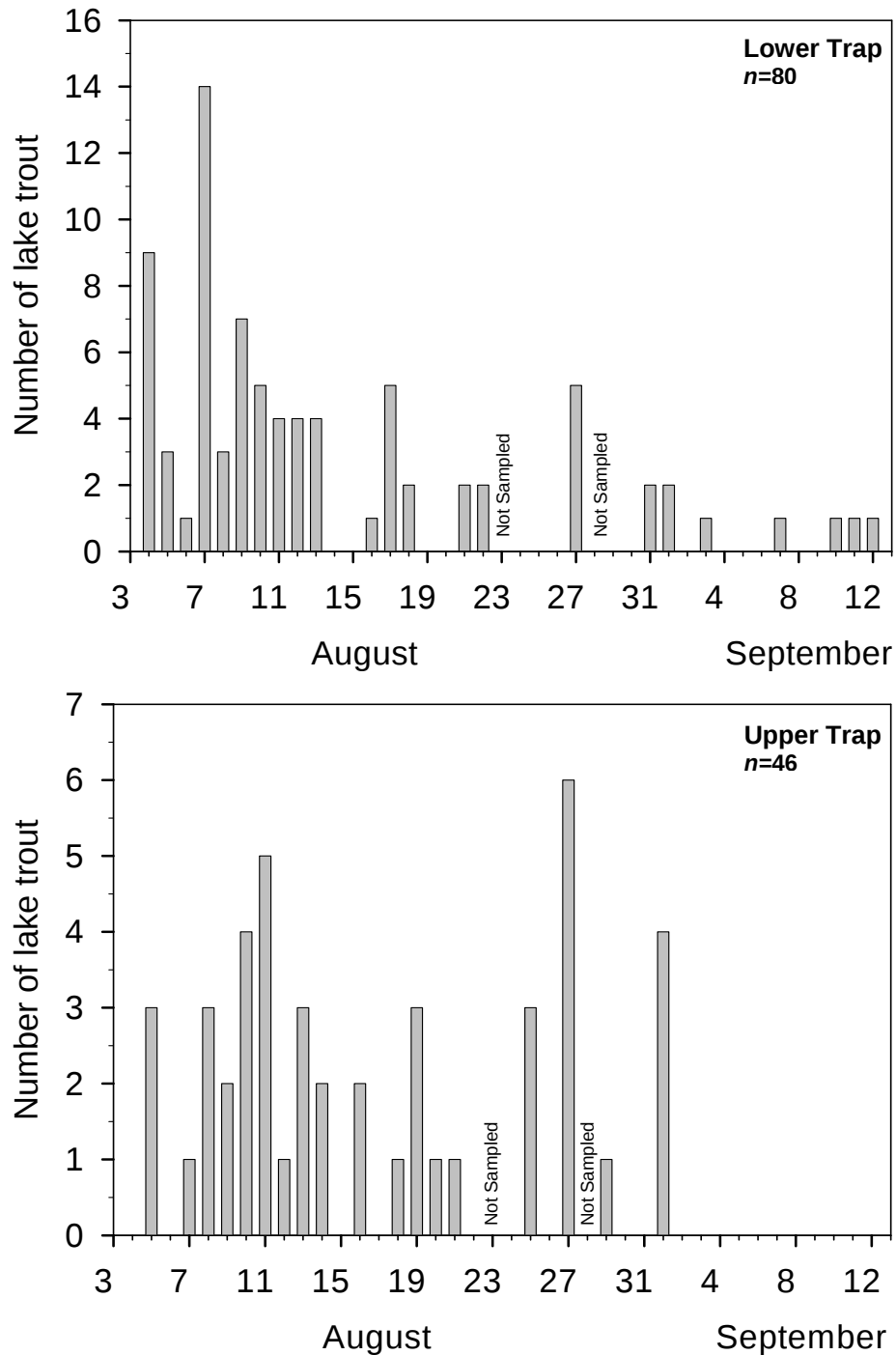


Figure 5.13 Daily catches of lake trout in the fish fences in Roberts Outflow, 2005.

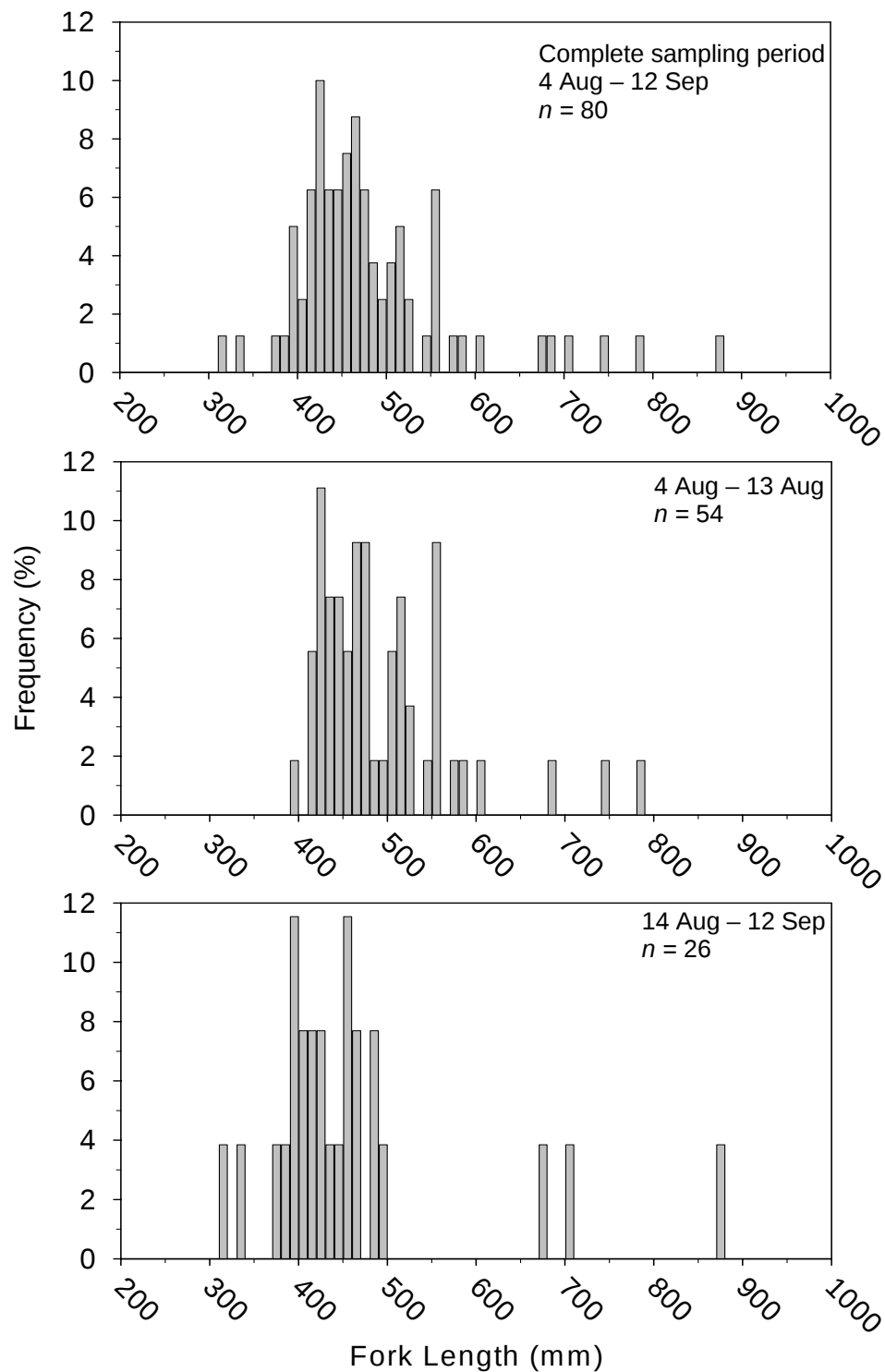


Figure 5.14 Temporal changes in length-frequency distribution of lake trout captured at the fish fence in Roberts Outflow, 2005.

During the open-water season of 2005, flows through the boulder garden section were high. Of the 179 Arctic char captured in the lower trap, 62 were recaptured in the upper trap. The total number of Arctic char that were not recaptured at the upstream trap in 2005 was 117 (65%). Of the 80 lake trout captured at the lower trap, 41 passed through the upper trap. The total number of lake trout that were not recaptured at the upstream trap was 39 (49%). Comparison of hydrology data collected during 2005 in Roberts Outflow and the number of Arctic char and lake trout that were able to migrate through the boulder garden suggests that stream flows did not hinder migration of fish (Table 5.10).

No fish were observed stranded in the boulder garden during 2005. A portion of the Arctic char and lake trout that were captured in the lower trap, but not at the upper trap, were likely predated upon by wildlife (i.e., grizzly bears and Arctic foxes) while the fish were traveling through the boulder garden. A portion of the fish may have passed by the upper trap when the upper fence collapsed, or passed through an unidentified gap in the upstream fence near the shore or trap. Also, some of the fish may have moved back downstream when the lower fence was down, and they may have moved to other systems to overwinter.

Backpack Electrofishing

Backpack electrofishing was conducted within Roberts Outflow to assess the rearing use of fish in this area (Appendix C5). Overall, 106 fish were captured or observed (not including fish that were captured more than once this year). Arctic char represented 82% of the catch, followed by lake trout (13%) and ninespine stickleback (5%).

Fish encountered in the boulder garden during backpack electrofishing were comprised mainly of juveniles. One adult lake trout, which was previously captured in the lower trap, was captured in the boulder garden on 11 September. Arctic char (n=71) ranged from 46 to 179 mm in fork length, with a mean of 110 mm. Lake trout (n=10) ranged from 77 to 673 mm in fork length, with a mean of 165 mm. The mean fork length for ninespine stickleback (n=4) was 25 mm with a range from 23 to 29 mm (Table 5.11).

Of the four Arctic char that were captured outside of the boulder garden, one was a juvenile. The mean fork length of the four fish was 568 mm, with a range of 210 to 848 mm. Five adult lake trout were captured in the pool upstream of the upper trap. The mean fork length was 706 mm and the range was 578 to 872 mm (Table 5.12).

Table 5.10 Summary of the number of fish captured in the upper fish fence in Roberts Outflow and mean daily discharge, 2005.

Date	Mean Daily Discharge ^a (m ³ /s)	Arctic char			Lake trout		
		No. of Fish	Fork Length (mm)		No. of Fish	Fork Length (mm)	
			Mean	Range		Mean	Range
Aug	4	0			0		
	5	0			3	501	412 - 555
	6	1	603	-	0		
	7	1	648	-	1	434	-
	8	0			3	493	424 - 547
	9	1	648	-	2	461	448 - 463
	10	0			4	476	453 - 519
	11	2	681	668 - 693	5	656	467 - 872
	12	0			1	451	-
	13	7	762	719 - 822	3	505	476 - 522
	14	1	390	-	2	507	460 - 553
	15	5	511	421 - 651	0		
	16	1	663		2	490	466 - 514
	17	1	670		0		
	18	3	701	695 - 707	1	468	-
	19	3	720	715 - 727	3	489	446 - 525
	20	1	741	-	1	878	-
	21	3	748	744 - 750	1	648	-
	22	4	769	758 - 780	0		
	23	Not Sampled			Not Sampled		
	24	1	308	-	0		
	25	3	325	318 - 330	3	445	409 - 480
	26	10	391	331 - 478	0		
	27	9	567	491 - 633	6	466	413 - 609
	28	Not Sampled			Not Sampled		
	29	2	646	641 - 650	1	455	-
	30	4	698	654 - 753	0		
	31	1	823	-	0		
Sep	1	1	escaped		4	562	392 - 790
	2	0			0		
	3	2	236	228 - 243	0		
	4	3	268	260 - 284	0		
	5	1	315	-	0		
	6	2	341	326 - 356	0		
	7	3	598	463 - 710	0		

^a since the fish likely moved into the trap during the evening or early morning and the traps were checked daily in the morning, the discharge values used in the table correspond to the previous days discharge.

Table 5.11 Summary statistics for fish captured in the Roberts Outflow boulder garden, 2005

Species	Fork Length (mm)				Weight (g)				Condition Factor			
	<i>n</i>	Mean	SD	Range	<i>n</i>	Mean	SD	Range	<i>n</i>	Mean	SD	Range
Arctic char	71	110	34	46 - 179	57	21	13	5 - 60	57	1.05	0.20	0.58 - 1.81
Lake trout	10	165	182	77 - 673	6	522	1209	15 - 2990	6	1.22	0.34	0.91 - 1.83
Ninespine stickleback	4	25	3	23 - 29	-	-	-	-	-	-	-	-

Table 5.12 Summary statistics for fish captured outside of the Roberts Outflow boulder garden, 2005.

Species	Fork Length (mm)				Weight (g)				Condition Factor			
	<i>n</i>	Mean	SD	Range	<i>n</i>	Mean	SD	Range	<i>n</i>	Mean	SD	Range
Arctic char	4	568	276	210 - 848	4	2823	2517	105 - 5665	4	1.08	0.11	0.93 - 1.18
Lake trout	5	706	119	578 - 872	5	4357	1928	2340 - 7210	5	1.19	0.10	1.09 - 1.34

5.3.1.2 Life History Data

Arctic Char

Size Distribution

The length distribution of Arctic char captured in Roberts Outflow (n=266; all methods combined) was widespread, ranging from 46 to 848 mm in fork length (mean of 382 mm). The length-frequency distribution appears to be tri-modal. Most captured fish (44%) were between 210 and 520 mm, while 27% were in each of the size groupings, 40 to 180 mm and 590 to 850 mm. Small Arctic char were likely juveniles undergoing localized movements between freshwater habitats (e.g., between Roberts and Little Roberts lakes).

Length-Weight Relationship

The length-weight regression equation for Arctic char captured in Roberts Outflow (Figure 5.16) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 2.505 \times 10^{-5} * L^{2.856} \quad (n=249; r^2=0.98)$$

The mean condition factor was 1.03; condition factors for individual fish ranged from 0.54 to 1.81.

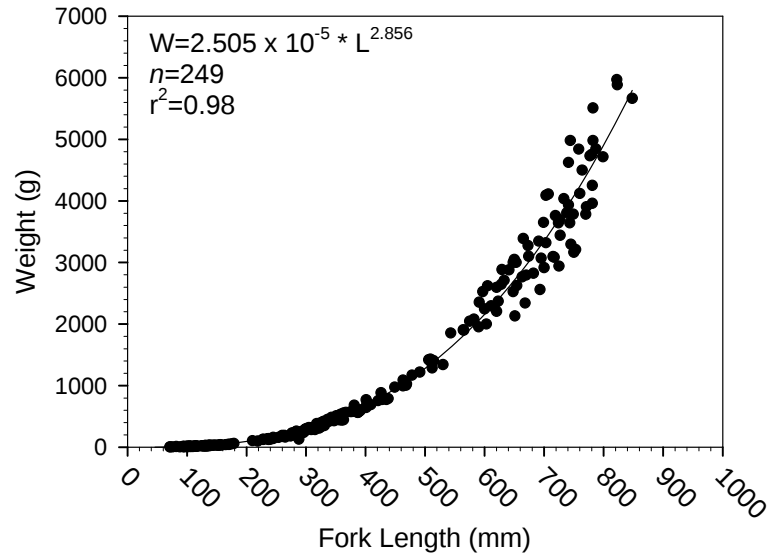


Figure 5.15 Length-weight relationship of Arctic char captured by various methods in Roberts Outflow, 2005

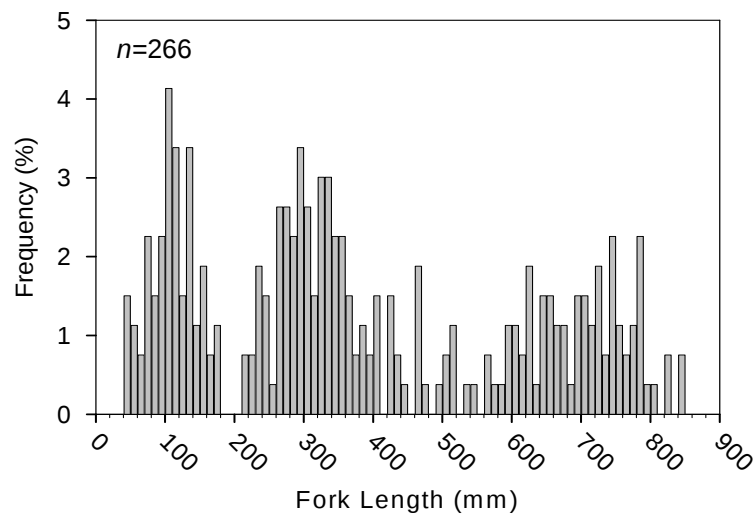


Figure 5.16 Length-weight relationship for Arctic char captured in Roberts Outflow, 2005

Sex and Maturity

Sex (based on external characteristics) was determined for 78 Arctic char. Of those, 59 were females and 19 were males (Appendix C1). Sex was verified for two female and one male fish that had succumbed during sampling.

Diet

Twelve Arctic char succumbed during sampling in Roberts Outflow. The stomach contents were examined for one fish, which consisted entirely of tadpole shrimp.

Lake Trout

Size Distribution

Lake trout caught in Roberts Outflow (n=96) ranged from 77 to 878 mm in fork length (mean of 460 mm). Two main size groupings were evident for lake trout in Roberts Outflow. Approximately 9% of the population was between 70 and 250 mm, and approximately 77% of the population was between 370 to 600 mm in fork length (Figure 5.17).

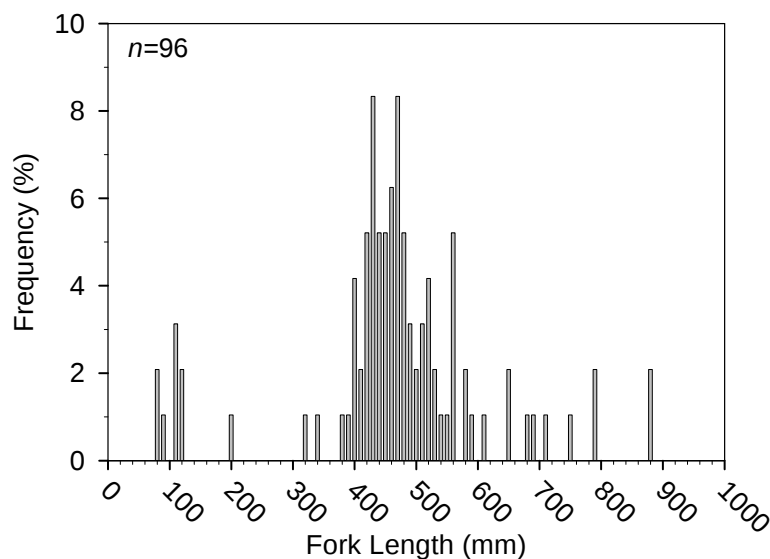


Figure 5.17 Length-frequency distribution of lake trout captured by various methods in Roberts Outflow, 2005

Length-Weight Relationship

The length-weight regression equation for lake trout caught in Roberts Outflow (Figure 5.18) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 2.016 \times 10^{-5} * L^{2.905} \quad (n=92; r^2=0.96)$$

The mean condition factor was 1.12; condition factors for individual fish ranged from 0.70 to 1.83 (Appendix C8).

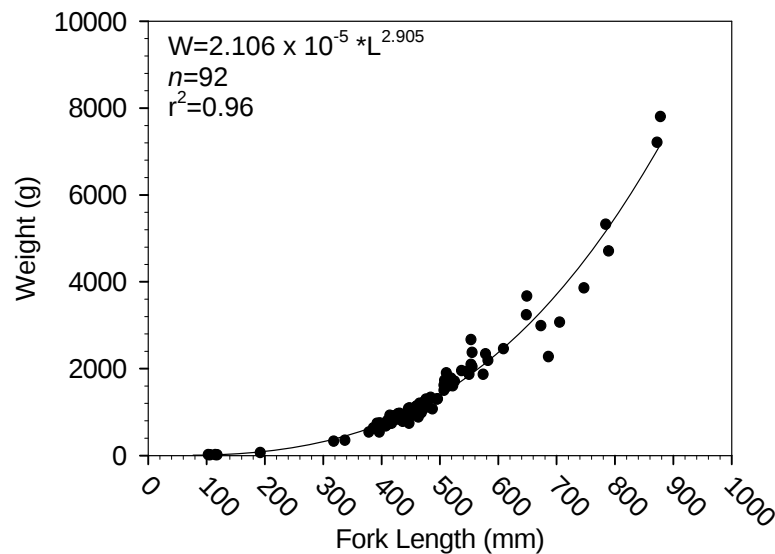


Figure 5.18 Length-weight relationship for lake trout captured in Roberts Outflow, 2005

Lake Whitefish

One lake whitefish was captured in Roberts Outflow. This fish had a fork length of 453 mm and a condition factor of 1.88 (Appendix C8).

Ninespine Stickleback

Five ninespine stickleback were captured in Roberts Outflow. The mean fork length was 25 mm, with a range of 23 to 29 mm (Appendix C8).

5.3.2 Roberts Lake Tributaries

5.3.2.1 Species Composition and Relative Abundance

Eleven tributaries flowing into Roberts Lake were sampled to assess fish use of these systems for rearing. Fish were captured in five streams. In total, 71 fish representing three species were captured. Arctic char was the dominant species ($n=32$), followed by lake trout ($n=25$); one ninespine stickleback was also captured. Thirteen fish were observed, but not captured, and were identified as char species. The overall catch-per-unit-effort (CPUE) for backpack electrofishing was 3.41 fish/100 s (Appendix C5).

5.3.2.2 Life History Data

Arctic Char

The Arctic char ($n=32$) captured in the tributaries of Roberts Lake were young-of-the-year (YOY) and juvenile fish that were rearing in these streams. Fork lengths ranged from 44 to 172 mm, with a mean length of 87 mm (Appendix C8).

Lake Trout

The lake trout ($n=25$) captured in the tributaries of Roberts Lake were juvenile fish that were rearing in these streams. Fork lengths ranged from 69 to 120 mm, with a mean length of 87 mm (Appendix C8).

Ninespine Stickleback

One ninespine stickleback was captured in the Roberts Lake tributaries. The fork length of this fish was 56 mm (Appendix C8).

5.3.3 Pelvic Outflow

5.3.3.1 Species Composition and Relative Abundance

Pelvic Outflow was sampled using backpack electrofishing and an Arctic fyke net. Overall, 196 fish representing four species were captured in Pelvic Outflow (Table 5.13). Cisco was the dominant fish species captured (70.9%), followed by lake trout (17.3%), lake whitefish (8.7%) and Arctic char (3.1%).

Table 5.13 Number of fish encountered in Pelvic Outflow, 2005.

Species	Fyke Net		Electrofishing		Total	
	no.	%	no.	%	no.	%
Arctic char	2	1.0	4	80.0	6	3.1
Lake trout	33	17.3	1	20.0	34	17.3
Lake whitefish	17	8.9			17	8.7
Cisco	139	72.8			139	70.9
Total	191	100	5	100	196	100

Fyke Net

An Arctic fyke net was set within Pelvic Outflow to assess the use of the outflow by fish migrating upstream. Overall, 191 fish were captured in the fyke net over 10 days. Cisco was the dominant species (72.8%) in the catch, followed by lake trout (17.3%), lake whitefish (8.9%) and Arctic char (1%; Table 5.13). Arctic char were only captured on two dates, lake whitefish were captured on four dates, cisco and lake trout were captured on all sampling dates (Appendix C2).

Backpack Electrofishing

Backpack electrofishing was conducted within Pelvic Outflow to assess the rearing use of fish in this area (Appendix C5). Overall, five fish were captured or observed. Four juvenile Arctic char were captured and one lake trout was observed within the boulder riffle (Table 5.13).

5.3.3.2 Life History Data

Cisco

Size Distribution

Cisco (n=139) captured in Pelvic Outflow were juvenile and small adult fish that were likely rearing in these streams. Fork lengths ranged from 75 to 287 mm, with a mean length of 199 mm (Appendix C8). Two main size groupings were observed for cisco in Pelvic Outflow. Twenty-nine percent of fish were between 70 and 150 mm in fork length, and 71% were between 150 and 290 mm (Figure 5.19).

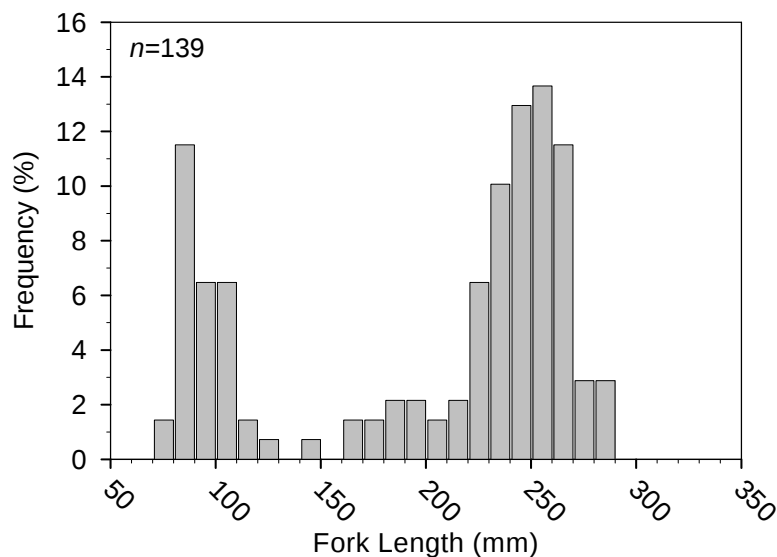


Figure 5.19 Length-frequency distribution of cisco captured in Pelvic Outflow, 2005

Length-Weight Relationship

The length-weight regression equation for cisco caught in Pelvic Outflow (Figure 5.20) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 1.267 \times 10^{-5} * L^{2.955} \quad (n=75; r^2=0.95)$$

The mean condition factor was 0.98; condition factors for individual fish ranged from 0.66 to 1.33 (Appendix C8).

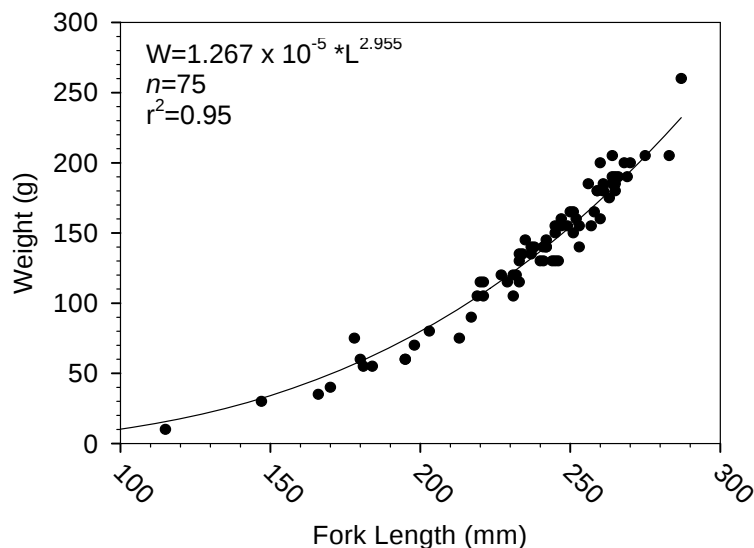


Figure 5.20 Length-weight relationship for cisco captured in Pelvic Outflow, 2005

Lake Trout

Size Distribution

Lake trout (n=34) captured in Pelvic Outflow ranged from 82 to 825 mm in fork length, with a mean length of 390 mm (Appendix C8). The dominant size-classes of fish were between 220 and 470 mm in fork length (67%; Figure 5.21).

Length-Weight Relationship

The length-weight regression equation for lake trout caught in Pelvic Outflow (Figure 5.22) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 2.475 \times 10^{-5} * L^{2.858} \quad (n=31; r^2=0.99)$$

The mean condition factor was 0.98; condition factors for individual fish ranged from 0.74 to 1.21 (Appendix C8).

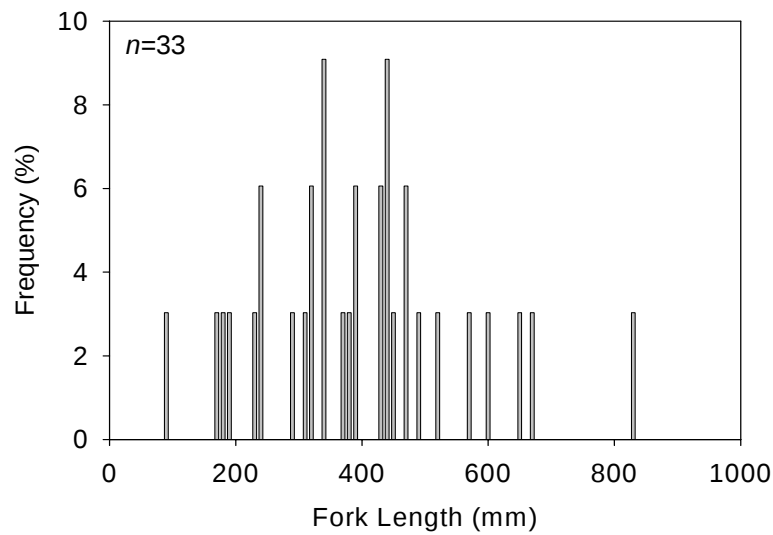


Figure 5.21 Length-frequency distribution of lake trout captured in Pelvic Outflow, 2005

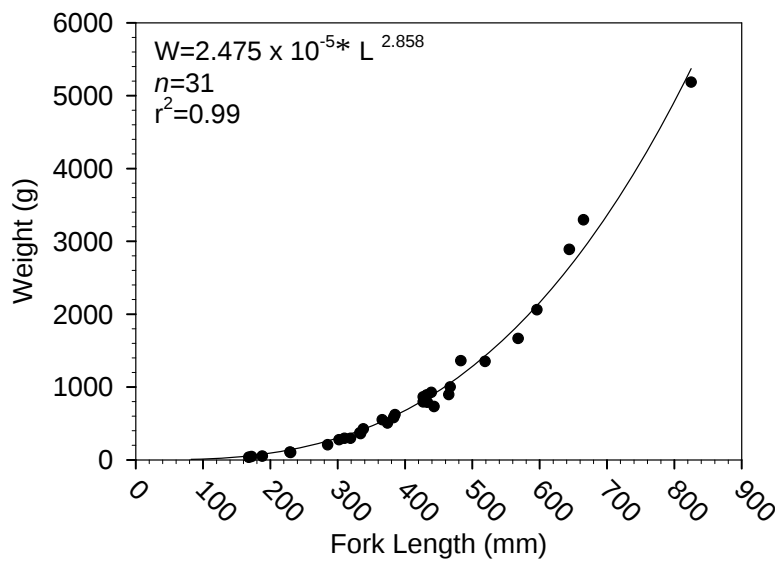


Figure 5.22 Length-weight relationship for lake trout captured in Pelvic Outflow, 2005

Lake Whitefish

Size Distribution

Lake whitefish (n=17) captured in Pelvic Outflow ranged from 120 to 438 mm in fork length, with a mean length of 300 mm (Appendix C8). The majority of captured fish (59%) were larger than 300 mm (Figure 5.23).

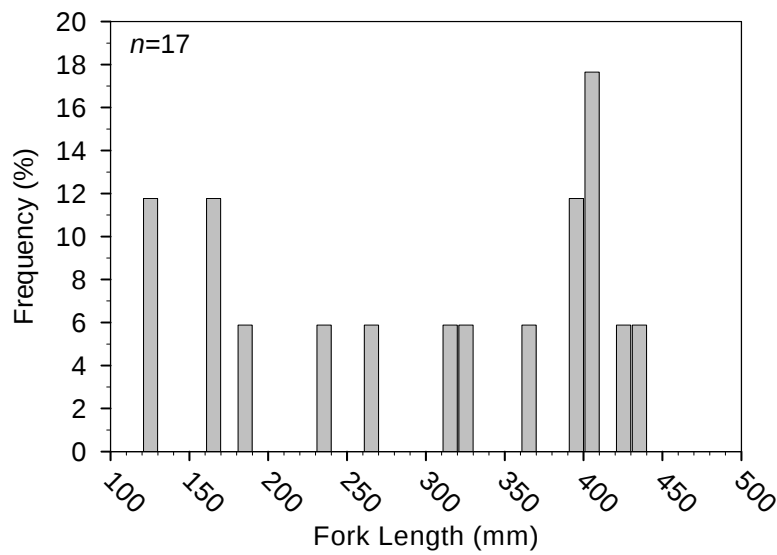


Figure 5.23 Length-frequency distribution of lake whitefish captured in Pelvic Outflow, 2005

Length-Weight Relationship

The length-weight regression equation for lake whitefish caught in Pelvic Outflow (Figure 5.24) was described by the following equation, where W is weight in grams and L is fork length in millimetres:

$$W = 4.777 \times 10^{-6} * L^{3.164} \quad (n=16; r^2=0.98)$$

The mean condition factor was 1.19; condition factors for individual fish ranged from 0.85 to 1.45 (Appendix C8).

Arctic Char

Six Arctic char were captured in Pelvic Outflow. Of these, one was adult and five were juvenile. The mean fork length was 201 mm and the range was 127 to 390 mm. The mean condition factor (n=2) was 1.03, and the individual condition factors were 0.99 and 1.07 (Appendix C8).

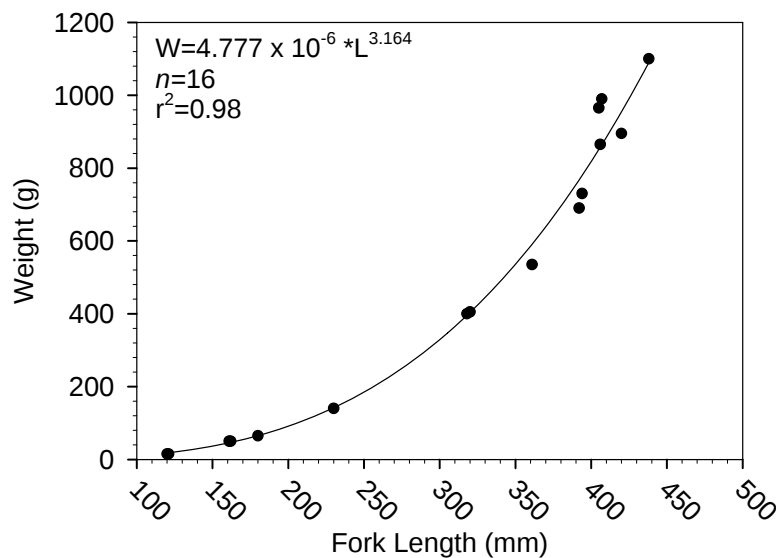


Figure 5.24 Length-weight relationship for lake whitefish captured in Pelvic Outflow, 2005.

5.3.4 Pelvic Lake Tributaries

Three tributaries flowing into Pelvic Lake were sampled by backpack electrofishing to assess their use for rearing by fish from Pelvic Lake. Total electrofishing effort was 1070 seconds. No fish were captured in these streams (Appendix C5).

5.3.5 Ogama Outflow

Fish sampling in Ogama Outflow was conducted by backpack electrofishing. Total electrofishing effort was 828 seconds. During that sampling time, two fish representing two species were captured, and six fish representing two species were observed (Appendix C5). The catch consisted of one lake trout (389 mm fork length) and one lake whitefish (272 mm fork length; Appendix C8). One lake trout and five ninespine stickleback were observed but not captured.

5.3.6 Doris Outflow

Fish sampling above the falls in Doris Outflow was conducted by backpack electrofishing and angling on 5 September (Appendix C5 and C6). Two lake trout were captured and one was observed. The mean fork length was 485 mm, with the two fish measuring 462 and 508 mm. The mean condition factor for these two fish was 1.07, with individual condition factors of 1.05 and 1.10 (Appendix C8).

5.3.7 Tail Outflow

Fish sampling along the length of Tail Outflow was conducted by backpack electrofishing on 10 August. Total electrofishing effort was 461 seconds. During that sampling time, two ninespine stickleback were captured (Appendix C5). The mean fork length was 76 mm, with the individual fish measuring 73 and 79 mm (Appendix C8).

5.4 ROBERTS BAY

The catch and size statistics for fish sampled in Roberts Bay between 7 and 12 August, 2005 are summarized in Appendices C2 to C6 and Appendix C8; data from individual fish are presented in Appendix C1. Fish capture methods used in Roberts Bay included fyke nets, angling and beach seines. Two trap nets were used in the Arctic fyke net to differentiate between east and west bound fish to assess fish movement within Roberts Bay. Fish were not captured with beach seines or by angling.

5.4.1 Species Composition and Relative Abundance

Overall, eight species were represented by the 2442 fish that were captured in Roberts Bay. Saffron cod was the predominant species in the catch (94%), followed by Arctic flounder (5%). The remaining 1% of the catch was composed of Arctic char, Pacific herring, lake trout, starry flounder, lake whitefish and fourhorn sculpin (Table 5.14).

The east bound fyke net captured 957 fish. Of the fish captured, 91.5% were Saffron cod, 7.2% were Arctic flounder and the remaining 1.3% was comprised of Arctic char, lake trout, lake whitefish and Pacific herring (Table 5.14).

The west bound fyke net captured 1485 fish. Saffron cod was the dominant species (96%) in the catch, followed by Arctic flounder (3.4%). The remaining catch was composed of Pacific herring, Arctic char, fourhorn sculpin and starry flounder (Table 5.14).

Table 5.14 Number of fish captured in the fyke nets in Roberts Bay, 2005.

Fyke net direction	Saffron cod	Arctic flounder	Arctic char	Fourhorn sculpin	Lake trout	Lake whitefish	Pacific herring	Starry flounder	Total
East Bound	875	69	7		3	2	1		957
West Bound	1426	50	1	1			4	3	1485
Total	2301 (94.2%)	119 (4.9%)	8 (0.3%)	1 (0.1%)	3 (0.1%)	2 (0.1%)	5 (0.2%)	3 (0.1%)	2442

5.4.2 Life History Data

Saffron Cod

Size Distribution

Of the 2301 saffron cod captured in Roberts Bay, 617 were measured and weighed. The mean total length was 232 mm and the range was 86 to 462 mm (Appendix C8). Two size groupings were observed for saffron cod in Roberts Bay. Seventy-nine percent of captured fish were between 86 and 270 mm, and 19% were between 280 and 400 mm (Figure 5.25).

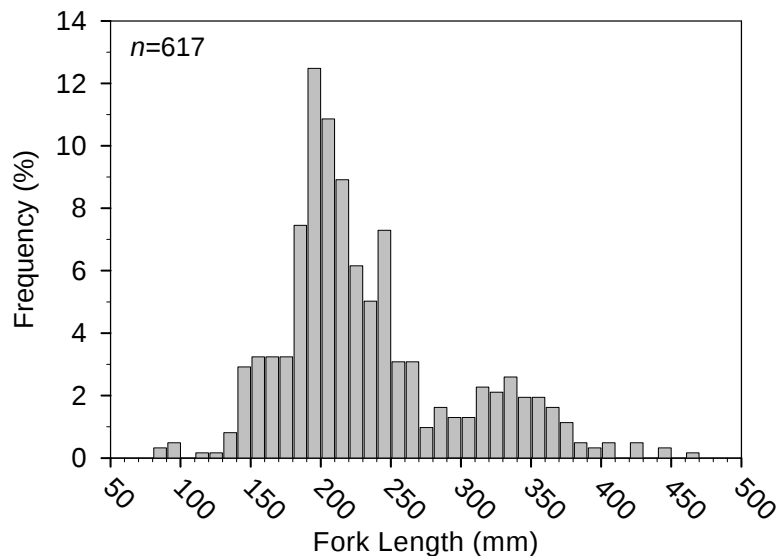


Figure 5.25 Length-frequency distribution of Saffron cod in Roberts Bay, 2005

Length-Weight Relationship

The length-weight relationship for saffron cod captured in Roberts Bay (Figure 5.26) was described by the following equation, where W is weight in grams and L is total length in millimetres:

$$W = 2.378 \times 10^{-6} * L^{3.164} \quad (n=546, r^2=0.99)$$

The mean condition factor for saffron cod in Roberts Bay was 0.58, with a range of 0.28 to 0.92 (Appendix C8).

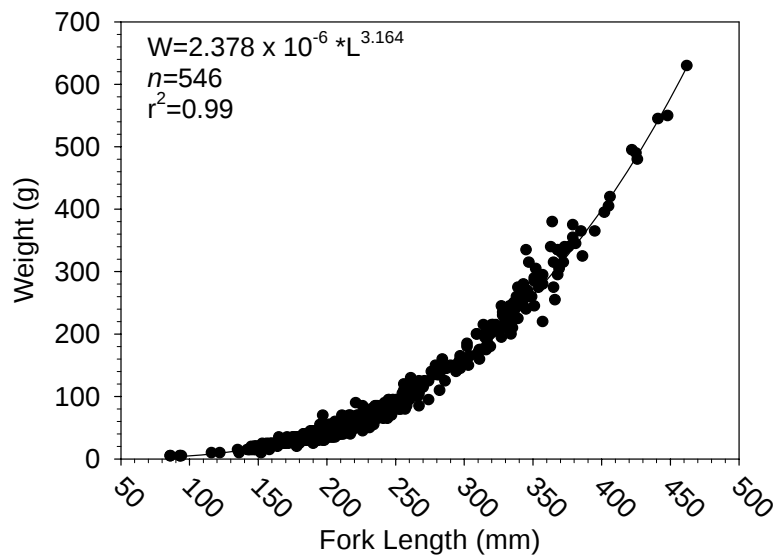


Figure 5.26 Length-weight relationship for Saffron cod captured in Roberts Bay, 2005

Arctic Flounder

Size Distribution

In total, 119 Arctic flounder were captured in Roberts Bay. The mean fork length was 224 mm, and the range was 119 to 375 mm (Appendix C8). Two general size groupings were observed for Arctic flounder in Roberts Bay. Seventy percent of captured fish were between 210 and 310 mm, and 27% were between 119 and 210 mm (Figure 5.27).

Length-Weight Relationship

The length-weight relationship for Arctic flounder captured in Roberts Bay (Figure 5.28) was described by the following equation, where W is weight in grams and L is total length in millimetres:

$$W = 1.810 \times 10^{-5} * L^{2.952} \quad (n=116, r^2=0.97)$$

The mean condition factor for Arctic flounder in Roberts Bay was 1.36, with a range of 0.61 to 1.78 (Appendix C8).

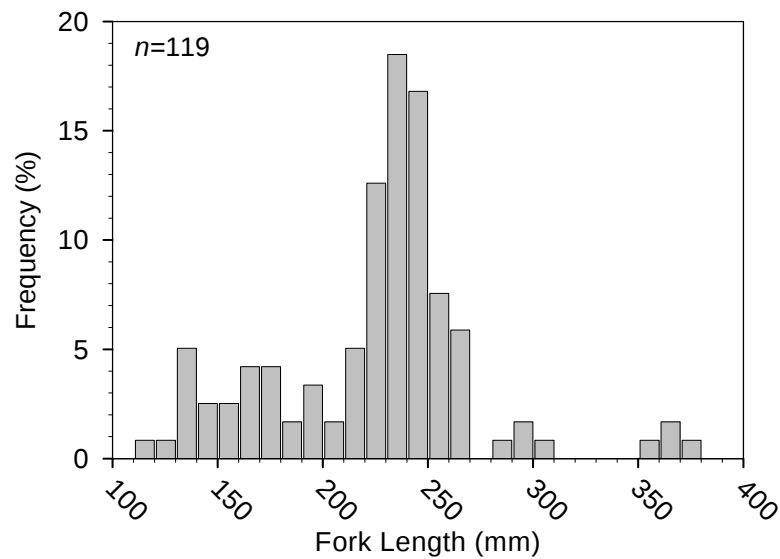


Figure 5.27 Length-frequency distribution of Arctic flounder in Roberts Bay, 2005

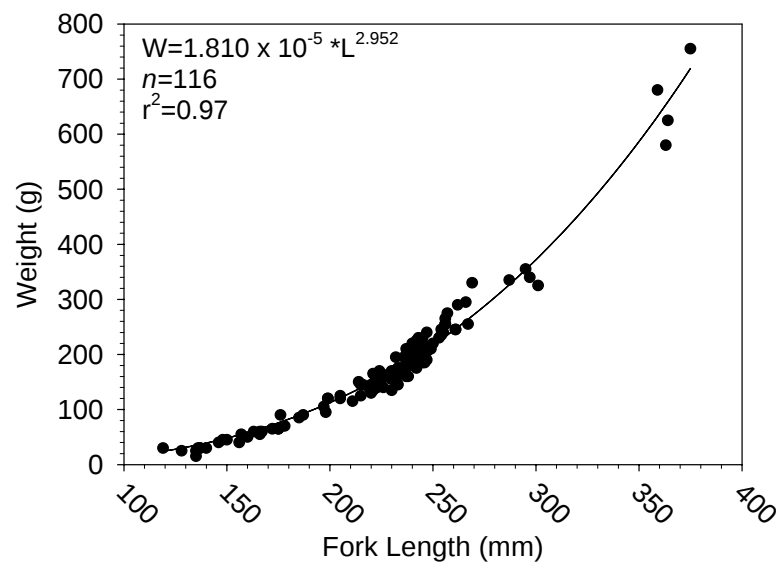


Figure 5.28 Length-weight relationship for Arctic flounder captured in Roberts Bay, 2005

Arctic char

Eight Arctic char were captured in Roberts Bay. Fork lengths ranged from 176 to 741 mm, with a mean length of 276 mm. The mean condition factor was 0.98, with a range of 0.87 to 1.00 (Appendix C8).

Pacific Herring

Five Pacific herring were captured in Roberts Bay. The mean fork length was 245 mm and the range was 228 to 268 mm. The mean condition factor was 0.88 and the range was 0.73 to 1.01 (Appendix C8).

Lake Trout

Three lake trout were caught in Roberts Bay. The mean fork length was 393 mm and the range was 223 to 553 mm. The mean condition factor was 1.08 and the range was 1.00 to 1.24 mm (Appendix C8).

Starry Flounder

Three starry flounder were captured in Roberts Bay. The mean fork length was 443 mm and the range was 406 to 464 mm. The condition factor ranged from 1.00 to 1.54 with a mean of 1.32 (Appendix C8).

Lake Whitefish

Two lake whitefish were captured in Roberts Bay. The mean fork length was 427 mm and the range was 419 to 435 mm. The condition factor ranged from 1.00 to 1.33, and the mean was 1.23 (Appendix C8).

Fourhorn Sculpin

One fourhorn sculpin was captured in Roberts Bay. The fork length of this fish was 113 mm and the condition factor was 0.69 mm (Appendix C8).

5.5 SUMMARY

In total, 3731 fish representing 10 species were encountered in the Doris North Project area during fisheries surveys conducted in 2005. Fish sampling was conducted in 9 lakes, 19 streams, and in the marine environment of Roberts Bay. Overall, the most common fish species captured was Saffron cod (61.7%), followed by Arctic char (10.6%), ninespine stickleback (9.9%), and lake trout (9.4%). In lakes, the most common fish species captured were ninespine stickleback (57.0%), lake trout (30.1%), and Arctic char (11.0%) (Table 5.15). In the marine environment, the most common fish species were saffron cod (94.2%) and Arctic flounder (4.9%) (Table 5.15). In streams, the most common fish species were Arctic char (48.0%), lake trout (24.2%) and cisco (21%) (Table 5.16).

Table 5.15 Summary of fish encountered in the lakes and Roberts Bay in the Doris North Project area, 2005.

Species	Doris Lake	Roberts Lake	Pelvic Lake	Tail Lake	Roberts Bay	Tailings Alternate Site 2	Quarry 2 Pond 2a & 2b	Quarry 3 Pond 3a & 3b	Total
Arctic char		69			8				77
Arctic flounder					119				119
Unidentified char spp.		4							4
Cisco	6		1						7
Fourhorn sculpin					1				1
Lake trout	43	143		3	3				192
Lake whitefish	1				2				3
Ninespine stickleback	95	3	1			259			358
Pacific herring					5				5
Saffron cod					2301				2301
Starry flounder					3				3
Total	145	219	2	3	2442	259	0	0	3070

Table 5.16 Summary of fish encountered in streams in the Doris North Project area, 2005.

Species	Doris Outflow	Ogama Outflow	Tail Outflow	Roberts Outflow	Pelvic Outflow	Pelvic Lake Tributaries	Roberts Lake Tributaries	Total
Arctic char				279	6		32	317
Unidentified char spp.							13	13
Cisco					139			139
Lake trout	3	2		96	34		25	160
Lake whitefish		1		1	17			19
Ninespine stickleback		5	2	5			1	13
Total	3	8	2	381	196	0	71	661

Lake Communities

Small fish sampling was conducted in Roberts, Doris and Pelvic lakes to assess near-shore habitat use. Small fish sampling methods included fyke netting, minnow trapping, and backpack electrofishing. Ninespine stickleback was the dominant small-fish catch in Doris Lake, whereas juvenile arctic char and juvenile lake trout were captured in Roberts Lake. Backpack electrofishing in Pelvic Lake yielded one juvenile cisco and one ninespine stickleback. Catch-per-unit effort for juvenile Arctic char and juvenile lake trout was very low despite considerable effort using sampling methods that target small fish.

Angling was used to target large fish in Tail, Doris and Roberts lakes. Overall, adult lake trout were more abundant in the catch than juveniles in Doris and Roberts lakes. Three adult lake trout were captured by angling in Tail Lake.

Small fish sampling was conducted in five ponds in the Doris North Project area to assess habitat use. Small fish sampling methods included minnow traps and backpack electrofishing. Ninespine stickleback was abundant in Tailings Alternate Site 2, but fish were not captured in any of the Quarry 2 or Quarry 3 Ponds.

Marine Communities

A bi-directional Arctic fyke net was used to assess fish movement in Roberts Bay. Large numbers of fish were captured in both the east bound and west bound fyke nets. The majority of the Saffron cod, Arctic flounder, Pacific herring and Arctic char were juveniles. The capture data suggest that the near-shore area of Roberts Bay is used as rearing habitat for several fish species.

Stream Communities

Fish sampling was conducted in 19 streams; these included Roberts, Pelvic, Doris, Ogama and Tail outflows, and tributaries to Roberts Lake (n=11) and Pelvic Lake (n=3). In total, 661 fish representing six species were captured. Fish were captured in all sampled outflows and in five of the 11 Roberts Lake tributaries.

Arctic char, followed by lake trout, were the dominant species in Roberts Outflow and the tributaries to Roberts Lake. Cisco was the dominant species captured in Pelvic Outflow. Other species captured in streams included lake whitefish and ninespine stickleback.

Arctic Char in Roberts Lake System

Two fish fences were installed above and below the boulder garden located in Roberts Outflow between 3 August and 12 September, 2005. These fish fences were installed to determine the number of Arctic char migrating from the ocean to Roberts Lake, where they overwinter, and where a portion of the population likely spawns. Fish were also captured using backpack electrofishing. In total, 381 fish representing four species were caught in Roberts Outflow. Arctic char was the predominant species in the overall catch (73%), followed by lake trout (25%).

The number of Arctic char entering the trap on a daily basis varied greatly. The greatest number of fish that passed through the lower trap in a given day was 18 fish. Of the fish that were captured in Roberts Outflow, recaptures from previous years accounted for 21% of the Arctic char catch and 44% of the lake trout catch. The July-August period during 2005 was a moderate to high flow

period, and flow did not impede migration of Arctic char through the boulder garden. However, approximately 65% of the Arctic char population and 49% of the lake trout population were not recaptured at the upstream trap. These fish may have escaped through either the upstream or downstream fences when high winds toppled the fence, or they may have been predated upon by wildlife.

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7.0 CLOSURE

We trust the information contained in this report is sufficient for your present needs. Should you have any questions regarding the project, please do not hesitate to contact the undersigned.

Yours truly,

GOLDER ASSOCIATES LTD.

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PHOTOGRAPHIC PLATES

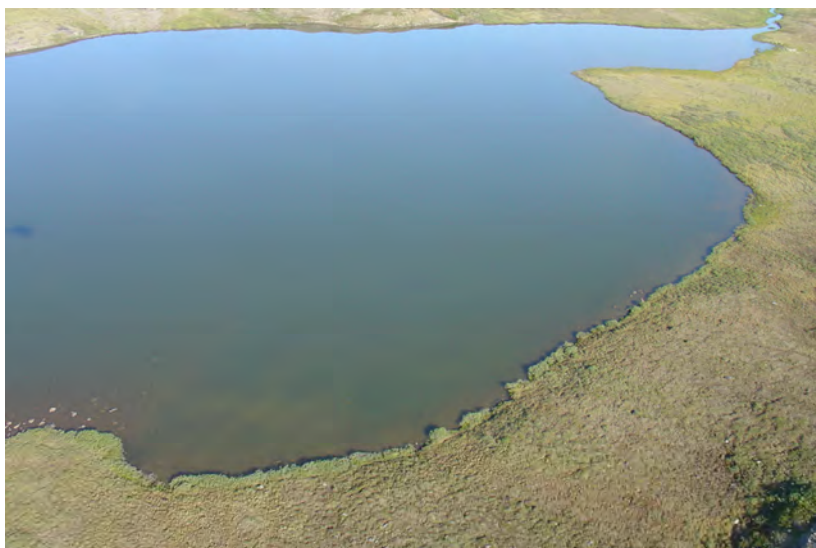


Plate 1 Doris Lake, 18 August 2005. Proposed rearing enhancement Site 1.



Plate 2 Doris Lake, 18 August 2005. Proposed rearing enhancement Site 2.



Plate 3 Doris Lake, 18 August 2005. Proposed rearing enhancement Site 3.



Plate 4 Doris Lake, 18 August 2005. Proposed rearing enhancement Site 4.

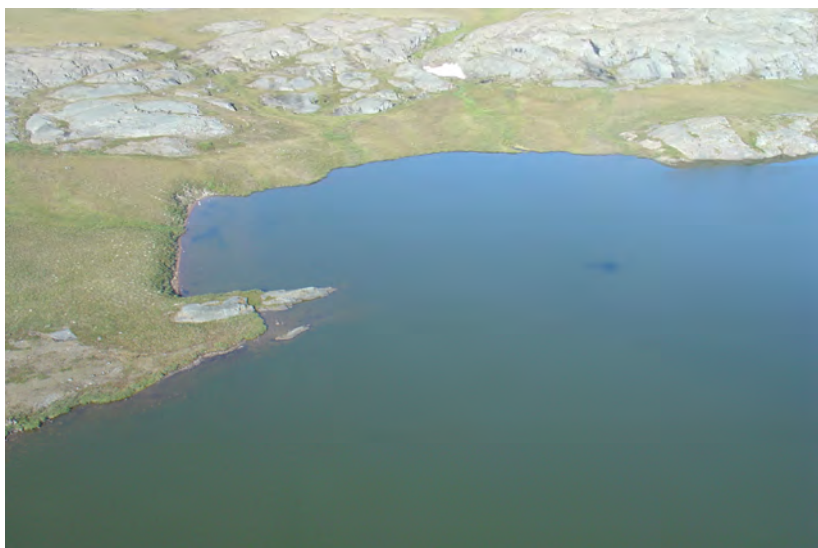


Plate 5 Doris Lake, *18 August 2005*. Proposed rearing enhancement Site 5.



Plate 6 Doris Lake, *18 August 2005*. Proposed rearing enhancement Site 6.



Plate 7 Tailings Alternate Site 2 (TA2), *18 August 2005*. Proposed alternate tailing disposal site.



Plate 8 Quarry 2 Ponds, *25 August 2005*. Pond 2a (centre) and Pond 2b (lower) near the proposed rock quarry 2.



Plate 9 Quarry 3 Ponds, *10 August 2005*. Pond 3a (lower) and Pond 3b (centre) near the proposed rock quarry 3.



Plate 10 Roberts Outflow, *11 August 2005*. Downstream view of the fish fences at the boulder garden.



Plate 11 Roberts Bay, *7 August 2005*. Bi-directional Fyke net set in Roberts Bay.



Plate 12 Pelvic Outflow, *14 August 2005*. Upstream view of the Fyke net at the mouth of Pelvic Outflow in Pelvic Lake.

APPENDIX A
HYDROLOGY DATA

This appendix contains hydrology data referenced in the body of the report. A table of contents for the appendix follows:

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DORIS LAKE OUTFLOW HYDROMETRIC STATION

H71 FACTSHEET

LOCATION AND DETAILS

Located on the right downstream bank of Doris Lake outflow, approximately 50 m downstream of the lake.

Operational: 2003 (30 June - 9 September)

2004 (8 June - 11 September)

2005 (27 June - 17 September)

Benchmark: Top of embedded boulder; 22.593 m (geodetic)

Drainage Area: 93.1 km²

Coordinates: UTM: 434108 m E, 7559274 m N (NAD27)

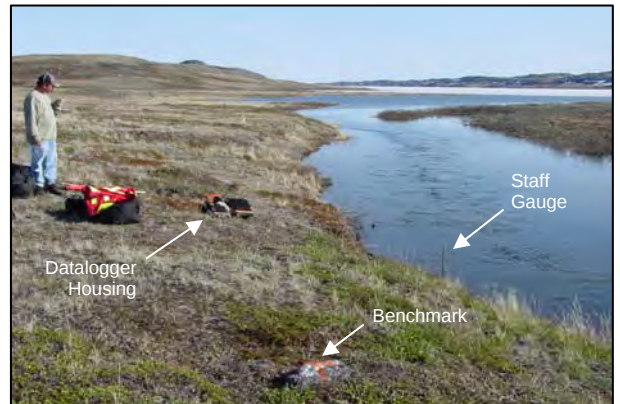
Lat/Long: 68°08'30" N, 106°35'14" W

Datalogger: Optimum Instruments #0948

Transducer: KPSI #0402786 (5 psi; 15 m)



Aerial view of Doris Creek looking north along outlet channel.



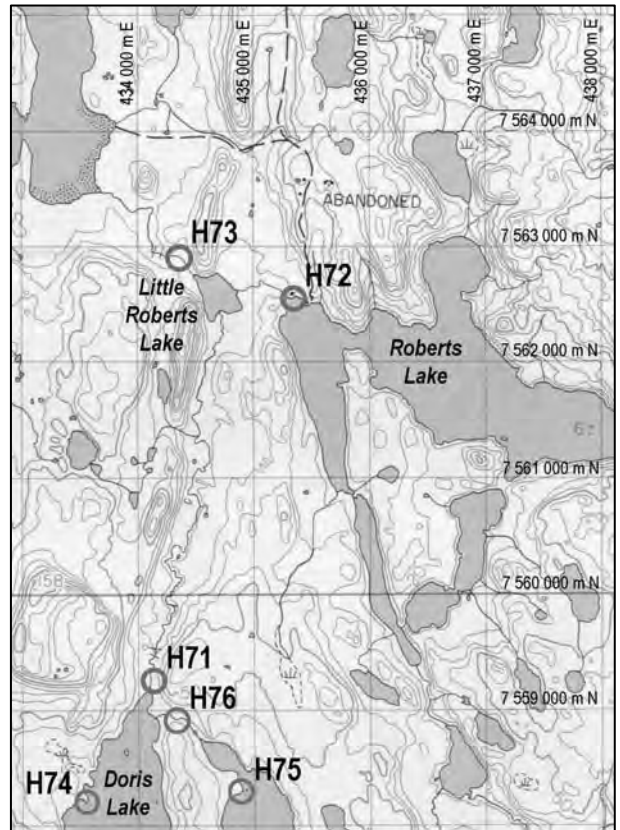
Doris Creek looking south from Station H71 to lake outlet.



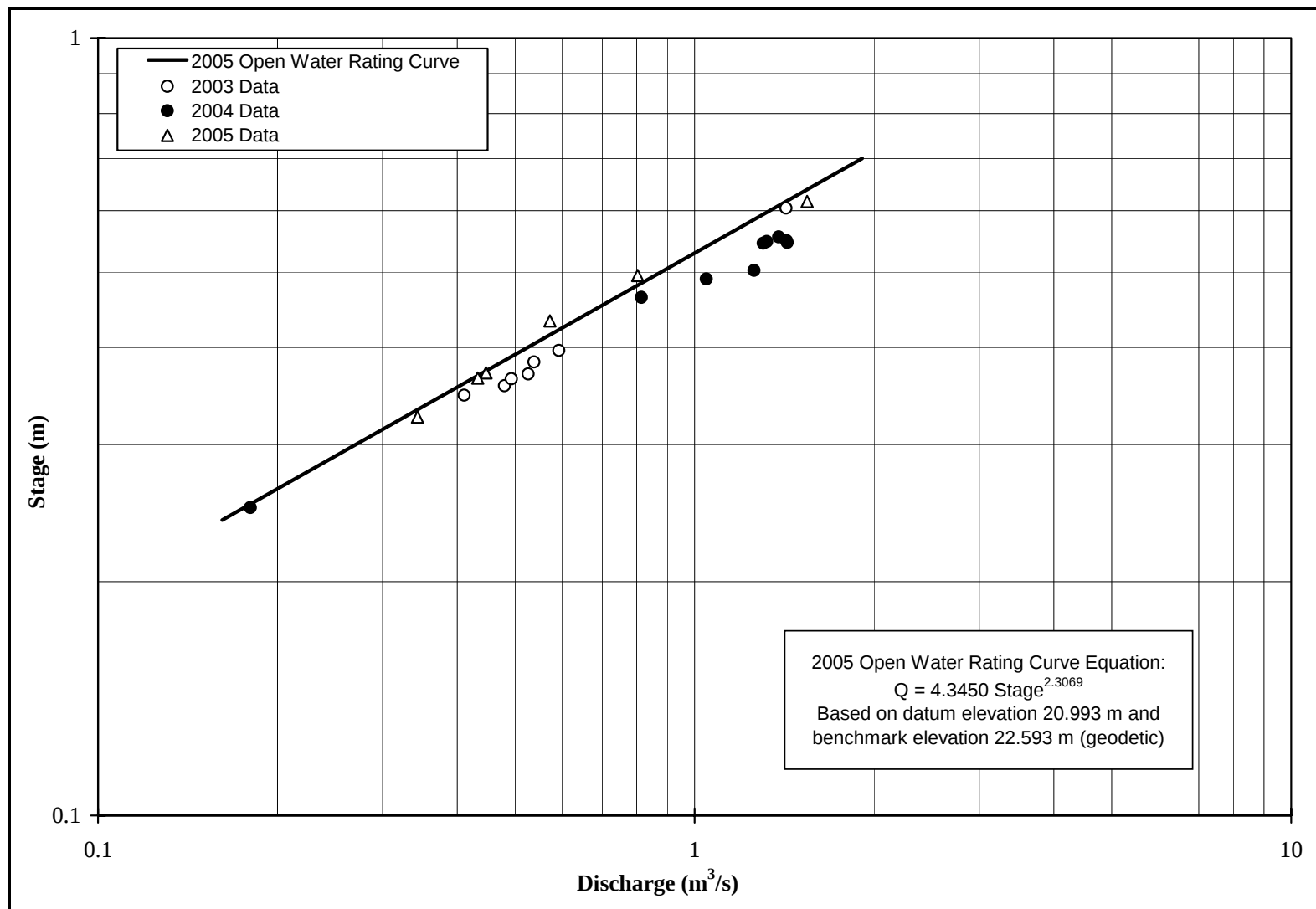
Station H71 from RDB looking northwest.



Station H71 from RDB looking southeast.



NTS Mapping of Area.



Doris Outflow Station H71 - Stage-Discharge Rating Curve (2005)

Doris Outflow Station H71 – Stage-Discharge Data (2003-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Stage Datum 20.993 m		Measured Discharge (m ³ /s)
					Water Surface Elevation (m)	Stage (m)	
30/06/2003 16:24	0.6414	20.953		0.615	21.594	0.604	1.423
06/08/2003 19:09	0.3941	20.962		0.377	21.356	0.357	0.480
08/08/2003 17:24	0.3843	20.953		0.358	21.337	0.347	0.411
18/08/2003 16:54	0.4015	20.962		0.384	21.363	0.364	0.493
20/08/2003 15:54	0.4070	-			21.363	0.370	0.526
28/08/2003 15:54	0.4201	20.939		0.380	21.359	0.383	0.538
05/09/2003 9:24	0.4336	20.960		0.415	21.394	0.397	0.592
09/09/2003 8:24	0.4474	20.964	20.956	0.432	21.411	0.410	n/a
08/06/2004 0:00	n/a	-			21.443	-	-
09/06/2004 10:38	0.3768	21.024			21.401	-	-
19/06/2004 15:43	0.5512	20.980			21.531	0.503	1.258
02/07/2004 9:40	0.6034	20.950			21.553	0.555	1.383
03/07/2004 12:00	0.5943	20.960			21.554	0.546	1.430
04/07/2004 13:05	0.5976	20.948			21.546	0.549	1.426
05/07/2004 0:00	0.5959	20.945			21.541	0.547	1.321
06/07/2004 9:25	0.5931	20.971			21.564	0.545	1.304
07/07/2004 15:19	0.5870	20.930			21.517	0.538	-
16/07/2004 12:16	0.5385	20.942			21.480	0.490	1.046
20/07/2004 14:07	0.5125	20.929			21.442	0.464	0.814
11/09/2004 12:55	0.2975	20.925	20.944		21.223	0.249	0.180
27/06/2005 15:45	0.8069	20.795			21.602	0.617	1.543
18/07/2005 13:00	0.6854	20.778			21.463	0.495	0.803
8/5/2005 20:00	0.6231	-			21.426	0.433	0.572
8/21/2005 17:00	0.5613	-			21.364	0.371	0.447
9/1/2005 11:15	0.5555	-			21.358	0.365	0.433
15/09/2005 14:45	0.5157	20.835	20.803		21.351	0.325	0.343

H71 - DORIS CREEK - 2005 MEAN DAILY DISCHARGE (m³/s)												
DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	1.321	0.678	0.424	-	-	-
2	-	-	-	-	-	-	1.279	0.681	0.426	-	-	-
3	-	-	-	-	-	-	1.249	0.666	0.426	-	-	-
4	-	-	-	-	-	-	1.233	0.661	0.422	-	-	-
5	-	-	-	-	-	-	1.213	0.638	0.418	-	-	-
6	-	-	-	-	-	0.000 E	1.194	0.622	0.415	-	-	-
7	-	-	-	-	-	0.550 E	1.168	0.604	0.412	-	-	-
8	-	-	-	-	-	1.101 E	1.122	0.588	0.396	-	-	-
9	-	-	-	-	-	1.161 E	1.115	0.570	0.391	-	-	-
10	-	-	-	-	-	1.201 E	1.097	0.555	0.381	-	-	-
11	-	-	-	-	-	1.252 E	1.070	0.530	0.365	-	-	-
12	-	-	-	-	-	1.329 E	1.043	0.516	0.345	-	-	-
13	-	-	-	-	-	1.433 E	1.024	0.520	0.328	-	-	-
14	-	-	-	-	-	1.485 E	0.992	0.525	0.325	-	-	-
15	-	-	-	-	-	1.582 E	0.954	0.524	0.320	-	-	-
16	-	-	-	-	-	1.773 E	0.920	0.514	0.319	-	-	-
17	-	-	-	-	-	1.894 E	0.888	0.500	0.317 P	-	-	-
18	-	-	-	-	-	1.975 E	0.851	0.489	0.292 E	-	-	-
19	-	-	-	-	-	1.912 E	0.838	0.482	0.268 E	-	-	-
20	-	-	-	-	-	1.850 E	0.826	0.475	0.244 E	-	-	-
21	-	-	-	-	-	1.789 E	0.810	0.451	0.219 E	-	-	-
22	-	-	-	-	-	1.713 E	0.788	0.441	0.195 E	-	-	-
23	-	-	-	-	-	1.609 E	0.770	0.429	0.171 E	-	-	-
24	-	-	-	-	-	1.564 E	0.752	0.440	0.146 E	-	-	-
25	-	-	-	-	-	1.532 E	0.741	0.445	0.122 E	-	-	-
26	-	-	-	-	-	1.487 E	0.722	0.445	0.097 E	-	-	-
27	-	-	-	-	-	1.416 P	0.722	0.449	0.073 E	-	-	-
28	-	-	-	-	-	1.390	0.709	0.429	0.049 E	-	-	-
29	-	-	-	-	-	1.344	0.700	0.405	0.024 E	-	-	-
30	-	-	-	-	-	1.325	0.685	0.414	0.000 E	-	-	-
31	-	-	-	-	-	-	0.675	0.424	-	-	-	-
MIN	-	-	-	-	-	0.000	0.675	0.405	0.000	-	-	-
MEAN	-	-	-	-	-	1.427	0.951	0.520	0.278	-	-	-
MAX	-	-	-	-	-	1.975	1.321	0.681	0.426	-	-	-

MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 22.593 m												
DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	21.590	21.440	21.358	-	-	-
2	-	-	-	-	-	-	21.582	21.441	21.358	-	-	-
3	-	-	-	-	-	-	21.576	21.437	21.358	-	-	-
4	-	-	-	-	-	-	21.572	21.435	21.357	-	-	-
5	-	-	-	-	-	-	21.568	21.428	21.355	-	-	-
6	-	-	-	-	-	-	21.564	21.423	21.354	-	-	-
7	-	-	-	-	-	-	21.559	21.418	21.353	-	-	-
8	-	-	-	-	-	-	21.549	21.413	21.347	-	-	-
9	-	-	-	-	-	-	21.547	21.407	21.345	-	-	-
10	-	-	-	-	-	-	21.544	21.403	21.341	-	-	-
11	-	-	-	-	-	-	21.538	21.395	21.335	-	-	-
12	-	-	-	-	-	-	21.532	21.390	21.327	-	-	-
13	-	-	-	-	-	-	21.527	21.391	21.319	-	-	-
14	-	-	-	-	-	-	21.520	21.393	21.318	-	-	-
15	-	-	-	-	-	-	21.511	21.393	21.316	-	-	-
16	-	-	-	-	-	-	21.503	21.390	21.315	-	-	-
17	-	-	-	-	-	-	21.495	21.385	21.314 P	-	-	-
18	-	-	-	-	-	-	21.486	21.381	-	-	-	-
19	-	-	-	-	-	-	21.483	21.378	-	-	-	-
20	-	-	-	-	-	-	21.480	21.376	-	-	-	-
21	-	-	-	-	-	-	21.476	21.368	-	-	-	-
22	-	-	-	-	-	-	21.470	21.364	-	-	-	-
23	-	-	-	-	-	-	21.465	21.359	-	-	-	-
24	-	-	-	-	-	-	21.461	21.364	-	-	-	-
25	-	-	-	-	-	-	21.457	21.365	-	-	-	-
26	-	-	-	-	-	-	21.452	21.365	-	-	-	-
27	-	-	-	-	-	21.608 P	21.452	21.367	-	-	-	-
28	-	-	-	-	-	21.603	21.449	21.359	-	-	-	-
29	-	-	-	-	-	21.594	21.446	21.351	-	-	-	-
30	-	-	-	-	-	21.591	21.442	21.354	-	-	-	-
31	-	-	-	-	-	-	21.439	21.358	-	-	-	-
MIN	-	-	-	-	-	21.591	21.439	21.351	21.314	-	-	-
MEAN	-	-	-	-	-	21.599	21.508	21.390	21.339	-	-	-
MAX	-	-	-	-	-	21.608	21.590	21.441	21.358	-	-	-

E- ESTIMATED

P – PARTIAL DAILY

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 27 June 2005

METER NUMBER: Swoffer

MEASUREMENT BY: BT/HS

MEASUREMENT START TIME: 1511 h

COMPUTATIONS BY: JA/AH

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.55		0.00			0.00	0.325	0.000
1	1.20		0.06			0.00	0.475	0.000
2	1.50		0.14			0.08	0.4	0.004
3	2.00		0.26			0.02	0.5	0.003
4	2.50		0.26			0.01	0.5	0.001
5	3.00		0.30			0.04	0.5	0.006
6	3.50		0.27			0.01	0.5	0.001
7	4.00		0.28			0.01	0.5	0.001
8	4.50		0.27			0.01	0.5	0.001
9	5.00		0.30			0.01	0.5	0.002
10	5.50		0.29			0.04	0.5	0.006
11	6.00		0.30			0.12	0.5	0.018
12	6.50		0.34			0.25	0.5	0.043
13	7.00		0.41			0.32	0.5	0.066
14	7.50		0.54			0.53	0.5	0.143
15	8.00		0.58			0.62	0.5	0.180
16	8.50		0.58			0.62	0.5	0.180
17	9.00		0.58			0.59	0.5	0.171
18	9.50		0.58			0.59	0.5	0.171
19	10.00		0.60			0.47	0.5	0.141
20	10.50		0.61			0.45	0.5	0.137
21	11.00		0.62			0.40	0.5	0.124
22	11.50		0.58			0.31	0.5	0.090
23	12.00		0.48			0.15	0.5	0.036
24	12.50		0.34			0.13	0.375	0.017
25	12.75		0.14			0.06	0.225	0.002
Left Bank	12.95		0.00			0.00	0.1	0.000

1.543

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 18 July 2005

METER NUMBER: Swoffer

MEASUREMENT BY: JH/HS

COMPUTATIONS BY: AH/JA

MEASUREMENT START TIME: 1300 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.00		0.00			0.00	0.125	0.000
1	1.25		0.20			0.00	0.25	0.000
2	1.50		0.21			0.00	0.25	0.000
3	1.75		0.25			0.00	0.25	0.000
4	2.00		0.64			0.16	0.25	0.026
5	2.25		0.77			0.19	0.25	0.037
6	2.50		0.76			0.31	0.25	0.059
7	2.75		0.76			0.47	0.25	0.089
8	3.00		0.74			0.64	0.25	0.118
9	3.25		0.70			0.59	0.25	0.103
10	3.50		0.66			0.36	0.25	0.059
11	3.75		0.66			0.40	0.25	0.066
12	4.00		0.65			0.49	0.25	0.080
13	4.25		0.66			0.47	0.25	0.078
14	4.50		0.65			0.24	0.25	0.039
15	4.75		0.60			0.21	0.25	0.032
16	5.00		0.40			0.12	0.375	0.018
17	5.50		0.29			0.00	0.5	0.000
18	6.00		0.19			0.00	0.5	0.000
19	6.50		0.20			0.00	0.5	0.000
20	7.00		0.11			0.00	0.4	0.000
21	7.30		0.06			0.00	0.35	0.000
Left Bank	7.70		0.00			0.00	0.2	0.000

0.803

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 5 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK/RE

MEASUREMENT START TIME: 2000 h

COMPUTATIONS BY: AH/JA

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.00		0.00			0.00	0.05	0.000
1	1.10		0.32			0.12	0.125	0.005
2	1.25		0.36			0.32	0.2	0.023
3	1.50		0.30			0.63	0.25	0.047
4	1.75		0.31			0.55	0.25	0.043
5	2.00		0.30			0.64	0.25	0.048
6	2.25		0.33			0.73	0.25	0.060
7	2.50		0.29			0.58	0.25	0.042
8	2.75		0.27			0.72	0.25	0.049
9	3.00		0.23			0.83	0.25	0.048
10	3.25		0.23			0.74	0.25	0.043
11	3.50		0.22			0.75	0.25	0.041
12	3.75		0.25			0.55	0.25	0.034
13	4.00		0.25			0.41	0.25	0.026
14	4.25		0.26			0.68	0.25	0.044
15	4.50		0.23			0.31	0.2	0.014
16	4.65		0.25			0.13	0.175	0.006
Left Bank	4.85		0.00			0.00	0.1	0.000

0.572

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 21 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1700 h

COMPUTATIONS BY: AH/JA

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.00		0.00			0.00	0.05	0.000
1	1.10		0.33			0.21	0.125	0.009
2	1.25		0.33			0.35	0.2	0.023
3	1.50		0.31			0.52	0.25	0.040
4	1.75		0.26			0.50	0.25	0.033
5	2.00		0.29			0.56	0.25	0.041
6	2.25		0.26			0.58	0.25	0.038
7	2.50		0.26			0.59	0.25	0.038
8	2.75		0.25			0.66	0.25	0.041
9	3.00		0.20			0.75	0.25	0.038
10	3.25		0.21			0.70	0.25	0.037
11	3.50		0.19			0.59	0.25	0.028
12	3.75		0.22			0.43	0.25	0.024
13	4.00		0.23			0.35	0.25	0.020
14	4.25		0.16			0.59	0.25	0.024
15	4.50		0.19			0.30	0.2	0.011
16	4.65		0.22			0.14	0.125	0.004
Left Bank	4.75		0.00			0.00	0.05	0.000

0.447

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 1 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1115 h

COMPUTATIONS BY: AH/JA

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.90		0.00			0.00	0.05	0.000
1	1.00		0.32			0.24	0.11	0.008
2	1.12		0.34			0.31	0.125	0.013
3	1.25		0.32			0.36	0.19	0.022
4	1.50		0.30			0.57	0.25	0.043
5	1.75		0.27			0.46	0.25	0.031
6	2.00		0.30			0.63	0.25	0.047
7	2.25		0.26			0.59	0.25	0.038
8	2.50		0.25			0.62	0.25	0.039
9	2.75		0.24			0.60	0.25	0.036
10	3.00		0.20			0.59	0.25	0.030
11	3.25		0.20			0.65	0.25	0.033
12	3.50		0.17			0.52	0.25	0.022
13	3.75		0.21			0.50	0.25	0.026
14	4.00		0.20			0.30	0.25	0.015
15	4.25		0.15			0.53	0.2	0.016
16	4.40		0.15			0.35	0.125	0.007
17	4.50		0.22			0.23	0.14	0.007
Left Bank	4.68		0.00			0.00	0.09	0.000

0.433

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Doris Creek

LOCATION: Outlet of Doris Lake

COORDINATES: 434108 m E, 7559274 m N (NAD 27)

MEASUREMENT DATE: 15 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1420 h

COMPUTATIONS BY: AH/JA

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.88		0.00			0.00	0.035	0.000
1	0.95		0.25			0.12	0.06	0.002
2	1.00		0.28			0.17	0.15	0.007
3	1.25		0.29			0.26	0.25	0.019
4	1.50		0.30			0.32	0.25	0.024
5	1.75		0.25			0.24	0.25	0.015
6	2.00		0.27			0.52	0.25	0.035
7	2.25		0.26			0.36	0.25	0.023
8	2.50		0.25			0.42	0.25	0.026
9	2.75		0.21			0.52	0.25	0.027
10	3.00		0.19			0.61	0.25	0.029
11	3.25		0.18			0.56	0.25	0.025
12	3.50		0.18			0.51	0.25	0.023
13	3.75		0.20			0.51	0.25	0.026
14	4.00		0.22			0.33	0.25	0.018
15	4.25		0.20			0.44	0.25	0.022
16	4.50		0.16			0.44	0.25	0.018
17	4.75		0.21			0.09	0.175	0.003
Left Bank	4.85		0.00			0.00	0.05	0.000

0.343

ROBERTS LAKE AND OUTFLOW HYDROMETRIC STATION

H72 FACTSHEET

LOCATION AND DETAILS

Located on the right downstream bank of Roberts Lake, approximately 20 m upstream of the lake outlet.

Operational: 2003 (30 June – 9 September)

2004 (9 May – 13 September)

2005 (29 June – 17 September)

Benchmark: Rock bolt in bedrock; 6.958 m (geodetic)

Drainage Area: 97.8 km²

Coordinates: UTM: 435310 m E, 7562560 m N (NAD27)

Lat/Long: 68°10'10" N, 106°33'32" W

Datalogger: Optimum Instruments #0628

Transducer: KPSI #0202697 (5 psi, 15 m)



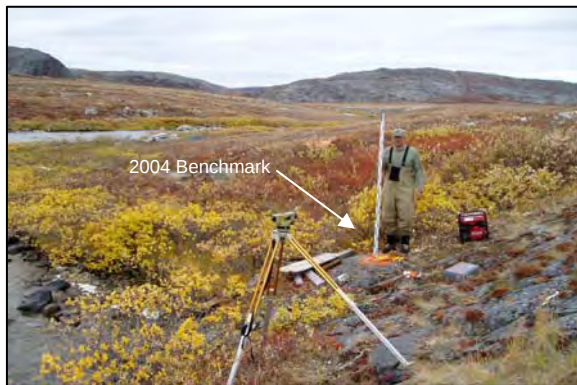
Aerial view of Roberts Lake Outlet looking northeast.



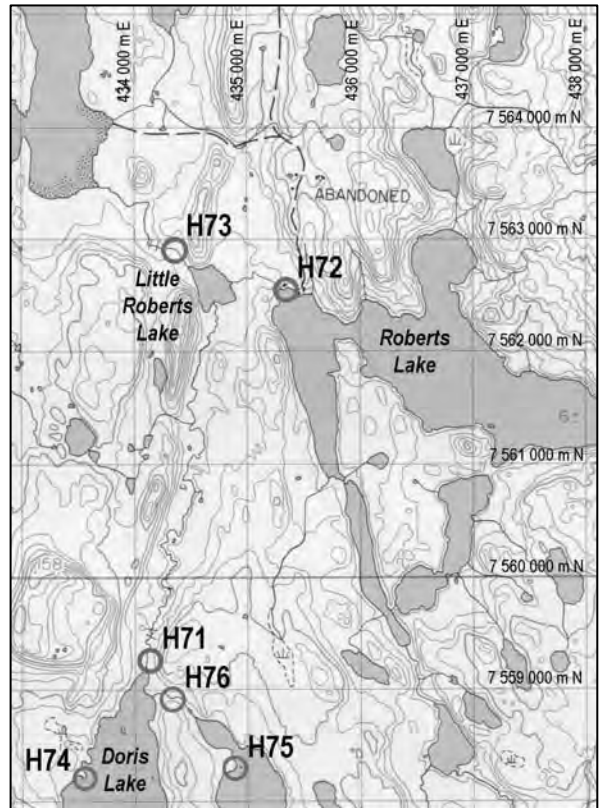
Station H72 from lake looking northwest.



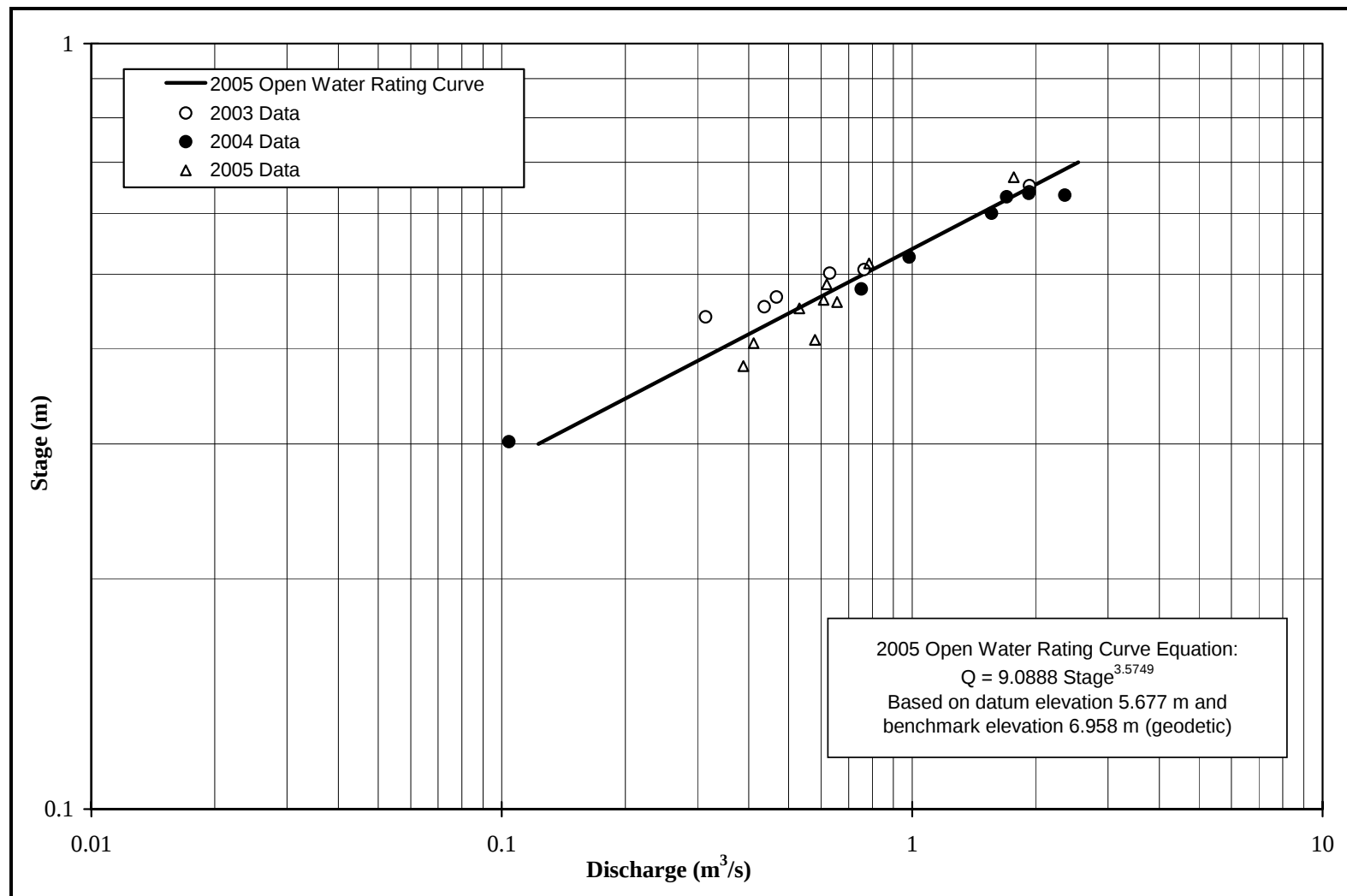
Station H72 from bank looking southeast.



Station H72 from bank looking west at new benchmark.



NTS Mapping of Area.



Roberts Lake and Outflow Station H72 - Stage-Discharge Rating Curve (2005)

Roberts Lake and Outflow Station H72 – Stage-Discharge Data (2003-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Water Surface Elevation (m)	Stage Datum	Measured Discharge (m ³ /s)
						5.677 m (geodetic) Stage (m)	
6/30/2003 11:30	0.6500	5.676		0.596	6.326	0.652	1.932
7/1/2003 13:30	0.6380	5.678		0.586	6.316	0.640	1.929
8/6/2003 15:00	0.4509	5.684		0.405	6.135	0.453	0.436
8/9/2003 13:30	0.4373	5.673		0.380	6.110	0.440	0.314
8/14/2003 13:45	0.4643	5.674		0.408	6.138	0.467	0.467
8/19/2003 11:30	0.5043	5.676		0.450	6.180	0.507	0.764
8/28/2003 13:00	0.4991	5.681		0.450	6.180	0.501	0.630
9/9/2003 9:30	0.4716	5.693	5.679	0.435	6.165	0.474	n/a
5/9/2004 16:00	n/a	n/a			-	-	-
6/5/2004 0:00	n/a	n/a			-	-	-
6/6/2004 0:00	n/a	n/a			-	-	-
6/7/2004 0:00	n/a	n/a			-	-	-
6/8/2004 0:00	n/a	n/a			-	-	-
6/9/2004 13:00	n/a	n/a			6.151	0.474	-
7/3/2004 9:40	0.6884	5.623			6.311	0.634	2.354
7/4/2004 10:05	0.6789	5.635			6.314	0.637	1.925
7/5/2004 12:00	0.6688	5.639			6.308	0.631	1.700
7/7/2004 13:30	0.6495	5.628			6.277	0.600	1.562
7/17/2004 9:21	0.5607	5.642			6.203	0.526	0.983
7/21/2004 10:21	0.5264	5.629			6.155	0.478	0.752
9/13/2004 9:38	0.3544	5.625	5.631		5.979	0.302	0.104
6/29/2005 11:24	0.6970	5.649		0.633	6.346	0.669	1.768
7/21/2005 13:40	0.5484	5.645		0.510	6.193	0.516	0.786
8/5/2005 14:00	0.5231	-		-	6.162	0.485	0.619
8/16/2005 16:45	0.5011	-		-	6.140	0.463	0.609
8/22/2005 11:30	0.4893	-		-	6.128	0.451	0.531
8/31/2004 14:30	0.4982	-		-	6.137	0.460	0.656
9/6/2005 14:50	0.4486	-		-	6.087	0.410	0.580
9/13/2004 14:35	0.4447	-		-	6.083	0.406	0.411
9/17/2004 10:55	0.4337	5.622	5.639	0.389	6.056	0.379	0.388

H72 – ROBERTS LAKE AND OUTFLOW - 2005
MEAN DAILY DISCHARGE (m³/s)

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	1.899	0.707	0.556	-	-	-
2	-	-	-	-	-	-	1.821	0.728	0.543	-	-	-
3	-	-	-	-	-	-	1.729	0.726	0.535	-	-	-
4	-	-	-	-	-	-	1.654	0.717	0.522	-	-	-
5	-	-	-	-	-	-	1.606	0.700	0.510	-	-	-
6	-	-	-	-	-	0.000 E	1.531	0.691	0.493	-	-	-
7	-	-	-	-	-	0.687 E	1.462	0.681	0.489	-	-	-
8	-	-	-	-	-	1.374 E	1.389	0.661	0.474	-	-	-
9	-	-	-	-	-	1.477 E	1.352	0.641	0.462	-	-	-
10	-	-	-	-	-	1.547 E	1.296	0.629	0.439	-	-	-
11	-	-	-	-	-	1.635 E	1.241	0.597	0.422	-	-	-
12	-	-	-	-	-	1.771 E	1.194	0.574	0.391	-	-	-
13	-	-	-	-	-	1.958 E	1.146	0.604	0.367	-	-	-
14	-	-	-	-	-	2.052 E	1.086	0.610	0.359	-	-	-
15	-	-	-	-	-	2.231 E	1.033	0.602	0.347	-	-	-
16	-	-	-	-	-	2.591 E	0.980	0.595	0.337	-	-	-
17	-	-	-	-	-	2.821 E	0.924	0.592	0.330 P	-	-	-
18	-	-	-	-	-	2.980 E	0.879	0.582	0.305 E	-	-	-
19	-	-	-	-	-	2.856 E	0.883	0.570	0.280 E	-	-	-
20	-	-	-	-	-	2.737 E	0.868	0.556	0.254 E	-	-	-
21	-	-	-	-	-	2.621 E	0.838	0.539	0.229 E	-	-	-
22	-	-	-	-	-	2.477 E	0.812	0.519	0.203 E	-	-	-
23	-	-	-	-	-	2.282 E	0.794	0.518	0.178 E	-	-	-
24	-	-	-	-	-	2.198 E	0.780	0.568	0.153 E	-	-	-
25	-	-	-	-	-	2.139 E	0.763	0.583	0.127 E	-	-	-
26	-	-	-	-	-	2.056 E	0.741	0.595	0.102 E	-	-	-
27	-	-	-	-	-	2.009 E	0.739	0.595	0.076 E	-	-	-
28	-	-	-	-	-	1.976 E	0.736	0.537	0.051 E	-	-	-
29	-	-	-	-	-	2.016 P	0.737	0.571	0.025 E	-	-	-
30	-	-	-	-	-	1.971	0.722	0.575	0.000 E	-	-	-
31	-	-	-	-	-	-	0.700	0.567	-	-	-	-
MIN	-	-	-	-	-	0.000	0.700	0.518	0.000	-	-	-
MEAN	-	-	-	-	-	2.019	1.107	0.611	0.319	-	-	-
MAX	-	-	-	-	-	2.980	1.899	0.728	0.556	-	-	-

MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 6.958 m

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	6.322	6.167	6.135	-	-	-
2	-	-	-	-	-	-	6.315	6.171	6.132	-	-	-
3	-	-	-	-	-	-	6.306	6.170	6.130	-	-	-
4	-	-	-	-	-	-	6.298	6.168	6.127	-	-	-
5	-	-	-	-	-	-	6.293	6.165	6.124	-	-	-
6	-	-	-	-	-	-	6.285	6.163	6.120	-	-	-
7	-	-	-	-	-	-	6.277	6.161	6.118	-	-	-
8	-	-	-	-	-	-	6.268	6.157	6.115	-	-	-
9	-	-	-	-	-	-	6.264	6.153	6.112	-	-	-
10	-	-	-	-	-	-	6.257	6.151	6.105	-	-	-
11	-	-	-	-	-	-	6.250	6.144	6.101	-	-	-
12	-	-	-	-	-	-	6.244	6.139	6.092	-	-	-
13	-	-	-	-	-	-	6.237	6.145	6.084	-	-	-
14	-	-	-	-	-	-	6.229	6.147	6.082	-	-	-
15	-	-	-	-	-	-	6.221	6.145	6.078	-	-	-
16	-	-	-	-	-	-	6.213	6.143	6.075	-	-	-
17	-	-	-	-	-	-	6.204	6.143	6.073 P	-	-	-
18	-	-	-	-	-	-	6.197	6.141	-	-	-	-
19	-	-	-	-	-	-	6.198	6.138	-	-	-	-
20	-	-	-	-	-	-	6.195	6.135	-	-	-	-
21	-	-	-	-	-	-	6.190	6.131	-	-	-	-
22	-	-	-	-	-	-	6.186	6.126	-	-	-	-
23	-	-	-	-	-	-	6.183	6.125	-	-	-	-
24	-	-	-	-	-	-	6.180	6.138	-	-	-	-
25	-	-	-	-	-	-	6.177	6.141	-	-	-	-
26	-	-	-	-	-	-	6.173	6.144	-	-	-	-
27	-	-	-	-	-	-	6.173	6.143	-	-	-	-
28	-	-	-	-	-	-	6.172	6.130	-	-	-	-
29	-	-	-	-	-	6.333 P	6.172	6.138	-	-	-	-
30	-	-	-	-	-	6.329	6.169	6.139	-	-	-	-
31	-	-	-	-	-	-	6.165	6.137	-	-	-	-
MIN	-	-	-	-	-	6.329	6.165	6.125	6.073	-	-	-
MEAN	-	-	-	-	-	6.331	6.226	6.146	6.106	-	-	-
MAX	-	-	-	-	-	6.333	6.322	6.171	6.135	-	-	-

NOTES: P - PARTIAL DAILY AVERAGE

E - ESTIMATED

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 29 June 2005

METER NUMBER: Marsh-McBirney

MEASUREMENT BY: BT/HS

MEASUREMENT START TIME: 1155 h

COMPUTATIONS BY: JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.50		0.00			0.00	0.75	0.00
1	3.00		0.19			0.00	1.15	0.00
2	3.80		0.21			0.01	0.65	0.00
3	4.30		0.18			0.02	0.60	0.00
4	5.00		0.20			0.08	0.70	0.01
5	5.70		0.29			0.24	0.55	0.04
6	6.10		0.54			0.33	0.40	0.07
7	6.50		0.55			0.31	0.45	0.08
8	7.00		0.54			0.36	0.50	0.10
9	7.50		0.52			0.48	0.50	0.12
10	8.00		0.52			0.61	0.50	0.16
11	8.50		0.54			0.66	0.50	0.18
12	9.00		0.55			0.78	0.50	0.21
13	9.50		0.54			0.72	0.50	0.19
14	10.00		0.55			0.79	0.50	0.22
15	10.50		0.54			0.63	0.50	0.17
16	11.00		0.55			0.57	0.50	0.16
17	11.50		0.25			0.18	0.50	0.02
18	12.00		0.13			0.17	0.50	0.01
19	12.50		0.13			0.15	0.75	0.01
20	13.50		0.10			0.06	1.10	0.01
Left Bank	14.70		0.00			0.00	0.60	0.00

1.768

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 21 July 2005

METER NUMBER: Swoffer

MEASUREMENT BY: HS/QS

MEASUREMENT START TIME: 1340 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO LEFT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Left Bank	0.58		0.35			0.23	0.46	0.04
1	1.50		0.32			0.35	0.71	0.08
2	2.00		0.28			0.42	0.50	0.06
3	2.50		0.32			0.60	0.50	0.10
4	3.00		0.30			0.49	0.50	0.07
5	3.50		0.26			0.66	0.50	0.09
6	4.00		0.28			0.49	0.50	0.07
7	4.50		0.32			0.53	0.50	0.08
8	5.00		0.34			0.49	0.50	0.08
9	5.50		0.31			0.40	0.50	0.06
10	6.00		0.36			0.28	0.35	0.04
11	6.20		0.28			0.19	0.25	0.01
12	6.50		0.16			0.15	0.28	0.01
13	6.75		0.18			0.06	0.25	0.00
14	7.00		0.07			0.00	0.18	0.00
15	7.10		0.06			0.00	0.13	0.00
Right Bank	7.25		0.00			0.00	0.08	0.00

0.786

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 5 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK/RE

MEASUREMENT START TIME: 1410 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO LEFT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Left Bank	0.00		0.00			0.00	0.13	0.00
1	0.25		0.20			0.31	0.25	0.02
2	0.50		0.20			0.80	0.25	0.04
3	0.75		0.12			0.86	0.25	0.03
4	1.00		0.19			0.63	0.25	0.03
5	1.25		0.24			0.67	0.25	0.04
6	1.50		0.25			0.45	0.25	0.03
7	1.75		0.25			0.41	0.25	0.03
8	2.00		0.23			0.73	0.25	0.04
9	2.25		0.25			0.63	0.25	0.04
10	2.50		0.24			0.56	0.25	0.03
11	2.75		0.24			0.51	0.25	0.03
12	3.00		0.25			0.81	0.25	0.05
13	3.25		0.23			0.64	0.25	0.04
14	3.50		0.21			0.84	0.25	0.04
15	3.75		0.21			0.71	0.25	0.04
16	4.00		0.19			0.84	0.25	0.04
17	4.25		0.18			0.89	0.25	0.04
18	4.50		0.19			0.45	0.20	0.02
19	4.65		0.17			0.08	0.18	0.00
Right Bank	4.85		0.00			0.00	0.10	0.00

0.619

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 16 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1645 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO LEFT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Left Bank	0.00		0.00			0.00	0.05	0.00
1	0.10		0.17			0.17	0.13	0.00
2	0.25		0.20			0.39	0.20	0.02
3	0.50		0.16			0.88	0.25	0.04
4	0.75		0.18			0.63	0.25	0.03
5	1.00		0.25			0.64	0.25	0.04
6	1.25		0.24			0.62	0.25	0.04
7	1.50		0.25			0.65	0.25	0.04
8	1.75		0.23			0.64	0.25	0.04
9	2.00		0.23			0.56	0.25	0.03
10	2.25		0.23			0.62	0.25	0.04
11	2.50		0.23			0.65	0.25	0.04
12	2.75		0.22			0.58	0.25	0.03
13	3.00		0.22			0.60	0.25	0.03
14	3.25		0.22			0.73	0.25	0.04
15	3.50		0.19			0.83	0.25	0.04
16	3.75		0.20			0.81	0.25	0.04
17	4.00		0.17			0.99	0.25	0.04
18	4.25		0.18			0.77	0.25	0.03
19	4.50		0.17			0.14	0.20	0.00
Right Bank	4.65		0.00			0.00	0.08	0.00

0.609

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 22 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1130 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.08	0.00
1	0.15		0.18			0.11	0.13	0.00
2	0.25		0.20			0.36	0.18	0.01
3	0.50		0.17			0.93	0.25	0.04
4	0.75		0.18			0.59	0.25	0.03
5	1.00		0.22			0.52	0.25	0.03
6	1.25		0.22			0.60	0.25	0.03
7	1.50		0.23			0.59	0.25	0.03
8	1.75		0.23			0.64	0.25	0.04
9	2.00		0.21			0.50	0.25	0.03
10	2.25		0.21			0.58	0.25	0.03
11	2.50		0.20			0.66	0.25	0.03
12	2.75		0.19			0.59	0.25	0.03
13	3.00		0.20			0.62	0.25	0.03
14	3.25		0.20			0.79	0.25	0.04
15	3.50		0.19			0.65	0.25	0.03
16	3.75		0.19			0.61	0.25	0.03
17	4.00		0.16			0.79	0.25	0.03
18	4.25		0.17			0.65	0.20	0.02
19	4.40		0.17			0.60	0.13	0.01
20	4.50		0.16			0.14	0.13	0.00
Left Bank	4.65		0.00			0.00	0.08	0.00

0.531

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 31 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1430 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.08	0.00
1	0.15		0.21			0.21	0.13	0.01
2	0.25		0.22			0.54	0.18	0.02
3	0.50		0.21			0.80	0.25	0.04
4	0.75		0.23			0.63	0.25	0.04
5	1.00		0.26			0.63	0.25	0.04
6	1.25		0.25			0.62	0.25	0.04
7	1.50		0.25			0.62	0.25	0.04
8	1.75		0.25			0.64	0.25	0.04
9	2.00		0.24			0.60	0.25	0.04
10	2.25		0.25			0.60	0.25	0.04
11	2.50		0.25			0.69	0.25	0.04
12	2.75		0.23			0.65	0.25	0.04
13	3.00		0.24			0.59	0.25	0.04
14	3.25		0.23			0.59	0.25	0.03
15	3.50		0.20			0.78	0.25	0.04
16	3.75		0.21			0.83	0.25	0.04
17	4.00		0.17			0.87	0.25	0.04
18	4.25		0.18			0.82	0.23	0.03
19	4.45		0.19			0.50	0.13	0.01
20	4.50		0.19			0.22	0.07	0.00
21	4.60		0.18			0.06	0.18	0.00
Left Bank	4.85		0.00			0.00	0.13	0.00

0.656

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 6 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1450 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.00
1	0.10		0.18			0.08	0.13	0.00
2	0.25		0.21			0.62	0.20	0.03
3	0.50		0.20			0.54	0.25	0.03
4	0.75		0.22			0.50	0.25	0.03
5	1.00		0.25			0.68	0.25	0.04
6	1.25		0.22			0.71	0.25	0.04
7	1.50		0.23			0.54	0.25	0.03
8	1.75		0.25			0.54	0.25	0.03
9	2.00		0.22			0.48	0.25	0.03
10	2.25		0.23			0.62	0.25	0.04
11	2.50		0.23			0.65	0.25	0.04
12	2.75		0.21			0.54	0.25	0.03
13	3.00		0.22			0.57	0.25	0.03
14	3.25		0.22			0.65	0.25	0.04
15	3.50		0.21			0.76	0.25	0.04
16	3.75		0.21			0.77	0.25	0.04
17	4.00		0.17			0.83	0.25	0.04
18	4.25		0.17			0.73	0.25	0.03
19	4.50		0.16			0.25	0.25	0.01
20	4.75		0.14			0.00	0.33	0.00
Left Bank	5.15		0.00			0.00	0.20	0.00

0.580

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 13 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1435 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.00
1	0.10		0.15			0.14	0.13	0.00
2	0.25		0.16			0.36	0.20	0.01
3	0.50		0.16			0.60	0.25	0.02
4	0.75		0.17			0.56	0.25	0.02
5	1.00		0.20			0.52	0.25	0.03
6	1.25		0.19			0.57	0.25	0.03
7	1.50		0.19			0.52	0.25	0.02
8	1.75		0.18			0.39	0.25	0.02
9	2.00		0.20			0.46	0.25	0.02
10	2.25		0.20			0.60	0.25	0.03
11	2.50		0.16			0.53	0.25	0.02
12	2.75		0.17			0.61	0.25	0.03
13	3.00		0.18			0.68	0.25	0.03
14	3.25		0.16			0.63	0.25	0.03
15	3.50		0.14			0.66	0.25	0.02
16	3.75		0.12			0.79	0.25	0.02
17	4.00		0.11			0.92	0.25	0.03
18	4.25		0.11			0.66	0.25	0.02
19	4.50		0.12			0.25	0.25	0.01
Left Bank	4.75		0.17			0.00	0.13	0.00

0.411

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Roberts Lake Outflow

LOCATION: Outlet of Roberts Lake

COORDINATES: 435310 m E, 7562560 m N (NAD27)

MEASUREMENT DATE: 17 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1118 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.00
1	0.10		0.10			0.15	0.13	0.00
2	0.25		0.16			0.41	0.20	0.01
3	0.50		0.18			0.63	0.25	0.03
4	0.75		0.16			0.49	0.25	0.02
5	1.00		0.19			0.38	0.25	0.02
6	1.25		0.18			0.54	0.25	0.02
7	1.50		0.18			0.41	0.25	0.02
8	1.75		0.19			0.51	0.25	0.02
9	2.00		0.17			0.46	0.25	0.02
10	2.25		0.16			0.47	0.25	0.02
11	2.50		0.17			0.51	0.25	0.02
12	2.75		0.17			0.53	0.25	0.02
13	3.00		0.18			0.58	0.25	0.03
14	3.25		0.16			0.66	0.25	0.03
15	3.50		0.14			0.67	0.25	0.02
16	3.75		0.14			0.61	0.25	0.02
17	4.00		0.12			0.82	0.25	0.02
18	4.25		0.12			0.83	0.25	0.02
19	4.50		0.12			0.43	0.18	0.01
20	4.60		0.13			0.11	0.13	0.00
Left Bank	4.75		0.00			0.00	0.08	0.00

0.388

LITTLE ROBERTS LAKE OUTFLOW HYDROMETRIC STATION

H73

FACTSHEET

LOCATION AND PURPOSE

Located on the Little Roberts Lake outflow, approximately 200 m downstream of the lake.

Operational: 2003 (30 June – 9 September)

2004 (6 June – 7 September)

2005 (28 June – 17 September)

Benchmark: Top of embedded boulder; 100.000 m (local)

Drainage Area: 198.9 km²

Coordinates: UTM: 434320 m E, 7562920 m N (NAD27)

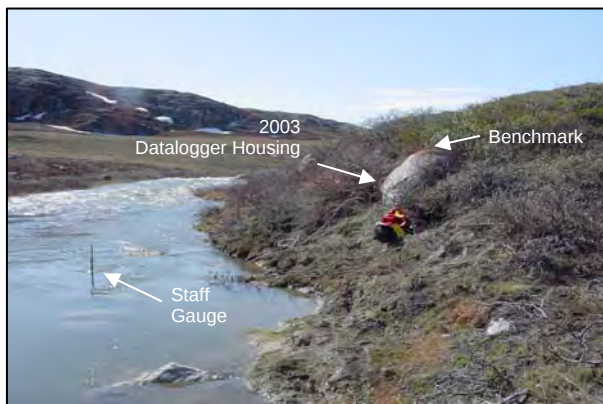
Lat/Long: 68°10'20" N, 106°34'59" W

Datalogger: Optimum Instruments #1166

Transducer: KPSI #0402788 (5 psi, 15 m)



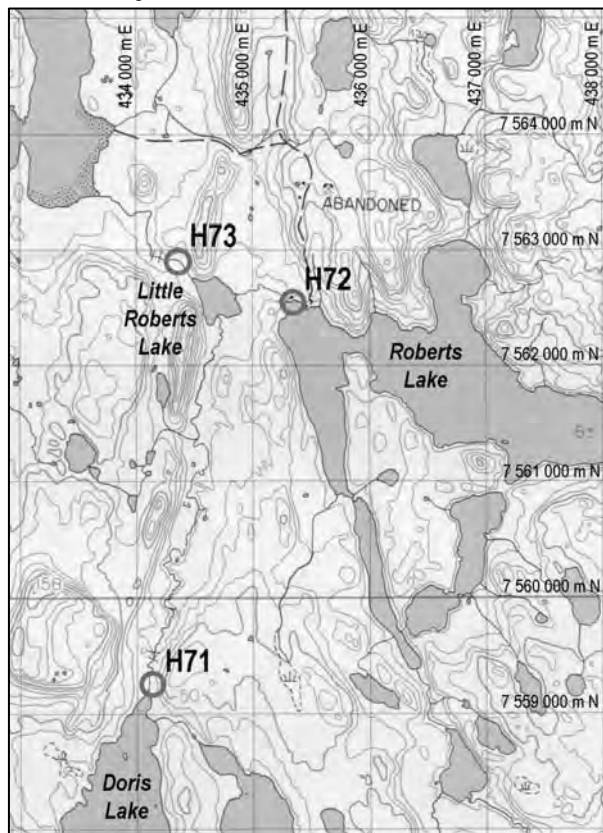
Panoramic view of H73 from LDB looking west.



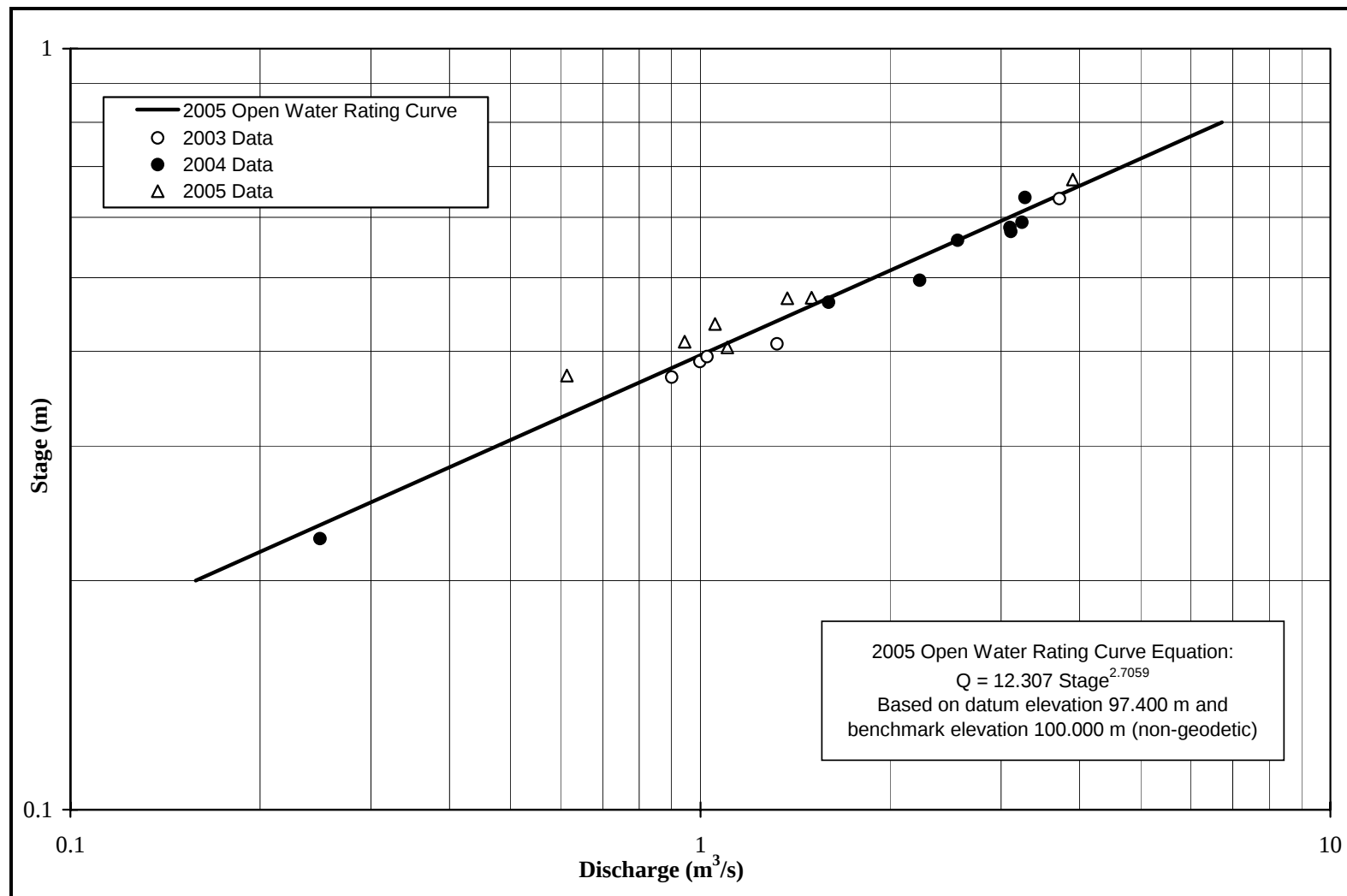
Station H73 from RDB looking downstream.



Station H73 from bank looking east.



NTS Mapping of Area.



Little Roberts Outflow Station H73 - Stage-Discharge Rating Curve (2005)

Little Roberts Outflow Station H73 – Stage-Discharge Data (2003-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Water Surface Elevation (m)	Stage Datum 97.400 m (assumed)	Measured Discharge (m ³ /s)
						Stage (m)	
6/30/03 14:33	0.6581	97.558		0.585	98.216	0.819	3.906
7/1/03 11:48	0.6464	97.563		0.578	98.209	0.808	3.714
8/5/03 20:33	0.3818	97.559		0.310	97.941	0.543	0.901
8/15/03 20:03	0.3995	97.561		0.330	97.961	0.561	0.999
8/28/03 15:03	0.4053	-		-	97.631	0.567	1.025
9/5/03 11:18	0.4209	97.562		0.352	97.983	0.582	1.323
9/9/03 9:03	0.4263	97.565	97.561	0.359	97.991	0.588	n/a
6/6/2004 12:00	n/a	n/a			97.889	ice effects	0.161
6/7/2004 12:00	n/a	n/a			97.959	ice effects	0.412
6/8/2004 12:00	n/a	n/a			97.837	ice effects	0.274
6/9/2004 13:54	n/a	n/a			97.791	ice effects	0.164
6/23/2004 20:24	0.5262	97.465			97.991	0.591	3.239
7/3/2004 12:00	0.5047	97.532			98.037	0.637	3.276
7/4/2004 11:15	0.4916	97.483			97.975	0.575	3.112
7/5/2004 12:00	0.4751	97.485			97.982	0.582	3.100
7/7/2004 9:01	0.4571	97.439			97.960	0.560	2.562
7/17/2004 14:55	0.3827	97.513			97.896	0.496	2.230
7/21/2004 8:36	0.3411	97.523			97.864	0.464	1.598
9/7/2004 12:20	0.1511	97.476	97.490		97.627	0.227	0.249
6/28/2005 11:31	n/a			0.770	98.246	0.846	3.901
7/17/2005 10:15	0.4104			0.595	98.044	0.644	n/a
7/17/2005 16:45	0.4097	97.633		0.600	98.043	0.643	1.502
8/5/2005 16:45	0.3744			-	98.008	0.608	1.375
8/19/2005 14:45	n/a			0.502	97.978	0.578	1.055
8/31/2005 10:20	n/a			0.509	97.985	0.585	1.104
9/14/2005 15:25	n/a			0.469	97.945	0.545	0.944
9/17/2005 11:49	n/a		97.633	0.464	97.992	0.592	0.614

H73 – LITTLE ROBERTS OUTFLOW - 2005
MEAN DAILY DISCHARGE (m³/s)

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	3.355 E	1.335	1.021 E	-	-	-
2	-	-	-	-	-	-	3.230 E	1.397	1.009 E	-	-	-
3	-	-	-	-	-	-	3.103 E	1.381	1.001 E	-	-	-
4	-	-	-	-	-	-	3.007 E	1.359	0.983 E	-	-	-
5	-	-	-	-	-	-	2.937 E	1.312	0.967 E	-	-	-
6	-	-	-	-	-	0.000 E	2.839 E	1.368 E	0.947 E	-	-	-
7	-	-	-	-	-	1.289 E	2.740 E	1.339 E	0.938 E	-	-	-
8	-	-	-	-	-	2.579 E	2.616 E	1.301 E	0.907 E	-	-	-
9	-	-	-	-	-	2.748 E	2.570 E	1.261 E	0.889 E	-	-	-
10	-	-	-	-	-	2.863 E	2.493 E	1.234 E	0.854 E	-	-	-
11	-	-	-	-	-	3.009 E	2.408 E	1.174 E	0.820 E	-	-	-
12	-	-	-	-	-	3.229 E	2.331 E	1.136 E	0.767 E	-	-	-
13	-	-	-	-	-	3.533 E	2.261 E	1.171 E	0.723 E	-	-	-
14	-	-	-	-	-	3.685 E	2.165 E	1.183 E	0.712 E	-	-	-
15	-	-	-	-	-	3.972 E	2.070 E	1.174 E	0.696 E	-	-	-
16	-	-	-	-	-	4.547 E	1.980 E	1.156 E	0.683 E	-	-	-
17	-	-	-	-	-	4.912 E	1.588	1.138 E	0.674 E	-	-	-
18	-	-	-	-	-	5.163 E	1.548	1.116 E	0.622 E	-	-	-
19	-	-	-	-	-	4.968 E	1.538	1.095 E	0.571 E	-	-	-
20	-	-	-	-	-	4.779 E	1.523	1.075 E	0.519 E	-	-	-
21	-	-	-	-	-	4.595 E	1.475	1.032 E	0.467 E	-	-	-
22	-	-	-	-	-	4.366 E	1.434	1.001 E	0.415 E	-	-	-
23	-	-	-	-	-	4.055 E	1.406	0.986 E	0.363 E	-	-	-
24	-	-	-	-	-	3.920 E	1.383	1.051 E	0.311 E	-	-	-
25	-	-	-	-	-	3.825 E	1.364	1.071 E	0.259 E	-	-	-
26	-	-	-	-	-	3.691 E	1.329	1.084 E	0.207 E	-	-	-
27	-	-	-	-	-	3.569 E	1.336	1.087 E	0.156 E	-	-	-
28	-	-	-	-	-	3.508 E	1.342	1.006 E	0.104 E	-	-	-
29	-	-	-	-	-	3.500 E	1.354	1.017 E	0.052 E	-	-	-
30	-	-	-	-	-	3.435 E	1.337	1.031 E	0.000 E	-	-	-
31	-	-	-	-	-	-	1.317	1.032 E	-	-	-	-
MIN	-	-	-	-	-	0.000	1.329	0.986	0.000	-	-	-
MEAN	-	-	-	-	-	3.590	2.069	1.169	0.621	-	-	-
MAX	-	-	-	-	-	5.163	3.355	1.397	1.021	-	-	-

MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 100.482 m (ASSUMED)

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	98.192 E	98.013	97.972 E	-	-	-
2	-	-	-	-	-	-	98.183 E	98.020	97.970 E	-	-	-
3	-	-	-	-	-	-	98.174 E	98.019	97.969 E	-	-	-
4	-	-	-	-	-	-	98.167 E	98.016	97.966 E	-	-	-
5	-	-	-	-	-	-	98.162 E	98.010	97.964 E	-	-	-
6	-	-	-	-	-	-	98.155 E	98.017 E	97.961 E	-	-	-
7	-	-	-	-	-	98.007 E	98.147 E	98.014 E	97.959 E	-	-	-
8	-	-	-	-	-	98.134 E	98.137 E	98.009 E	97.954 E	-	-	-
9	-	-	-	-	-	98.148 E	98.134 E	98.004 E	97.952 E	-	-	-
10	-	-	-	-	-	98.156 E	98.127 E	98.000 E	97.946 E	-	-	-
11	-	-	-	-	-	98.167 E	98.120 E	97.993 E	97.940 E	-	-	-
12	-	-	-	-	-	98.183 E	98.114 E	97.988 E	97.932 E	-	-	-
13	-	-	-	-	-	98.204 E	98.108 E	97.992 E	97.924 E	-	-	-
14	-	-	-	-	-	98.213 E	98.099 E	97.994 E	97.922 E	-	-	-
15	-	-	-	-	-	98.231 E	98.091 E	97.993 E	97.919 E	-	-	-
16	-	-	-	-	-	98.265 E	98.082 E	97.990 E	97.916 E	-	-	-
17	-	-	-	-	-	98.285 E	98.042	97.988 E	97.915 E	-	-	-
18	-	-	-	-	-	98.298 E	98.038	97.985 E	97.905 E	-	-	-
19	-	-	-	-	-	98.288 E	98.037	97.982 E	97.894 E	-	-	-
20	-	-	-	-	-	98.278 E	98.035	97.979 E	97.883 E	-	-	-
21	-	-	-	-	-	98.268 E	98.030	97.973 E	97.871 E	-	-	-
22	-	-	-	-	-	98.255 E	98.025	97.969 E	97.859 E	-	-	-
23	-	-	-	-	-	98.236 E	98.021	97.966 E	97.845 E	-	-	-
24	-	-	-	-	-	98.228 E	98.019	97.976 E	97.830 E	-	-	-
25	-	-	-	-	-	98.222 E	98.017	97.979 E	97.813 E	-	-	-
26	-	-	-	-	-	98.214 E	98.012	97.980 E	97.794 E	-	-	-
27	-	-	-	-	-	98.206 E	98.013	97.981 E	97.772 E	-	-	-
28	-	-	-	-	-	98.202 E	98.014	97.969 E	97.744 E	-	-	-
29	-	-	-	-	-	98.201 E	98.015	97.971 E	97.705 E	-	-	-
30	-	-	-	-	-	98.197 E	98.013	97.973 E	-	-	-	-
31	-	-	-	-	-	-	98.011	97.973 E	-	-	-	-
MIN	-	-	-	-	-	98.007	98.011	97.966	97.705	-	-	-
MEAN	-	-	-	-	-	98.212	98.082	97.991	97.896	-	-	-
MAX	-	-	-	-	-	98.298	98.192	98.020	97.972	-	-	-

NOTES: P - PARTIAL DAILY AVERAGE

E - ESTIMATED

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 28 June 2005

METER NUMBER: Marsh McBirney

MEASUREMENT BY: BT/HS

MEASUREMENT START TIME: 1219 h

COMPUTATIONS BY: JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m³/s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	4.65		0.00			0.00	0.425	0.000
1	5.50		0.26			0.61	0.675	0.107
2	6.00		0.48			0.71	0.5	0.170
3	6.50		0.46			0.83	0.5	0.191
4	7.00		0.48			0.56	0.5	0.134
5	7.50		0.50			0.89	0.5	0.223
6	8.00		0.48			0.79	0.5	0.190
7	8.50		0.58			0.72	0.5	0.209
8	9.00		0.54			0.79	0.5	0.213
9	9.50		0.43			0.78	0.5	0.168
10	10.00		0.46			0.78	0.5	0.179
11	10.50		0.52			0.68	0.6	0.212
12	11.20		0.73			0.39	0.7	0.199
13	11.90		0.73			0.42	0.65	0.199
14	12.50		0.72			0.33	0.55	0.131
15	13.00		0.66			0.56	0.5	0.185
16	13.50		0.55			0.78	0.5	0.215
17	14.00		0.54			0.50	0.5	0.135
18	14.50		0.57			0.55	0.5	0.157
19	15.00		0.58			0.46	0.5	0.133
20	15.50		0.58			0.53	0.5	0.154
21	16.00		0.60			0.57	0.5	0.171
22	16.50		0.58			0.59	0.5	0.171
23	17.00		0.26			0.36	0.5	0.047
24	17.50		0.20			0.12	0.35	0.008
Left Bank	17.70		0.00			0.00	0.1	0.000

3.901

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 17 July 2005

METER NUMBER: Swoffer

MEASUREMENT BY: JH/HS

MEASUREMENT START TIME: not recorded

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.80		0.00			0.00	0.1	0.000
1	1.00		0.14			0.19	0.35	0.009
2	1.50		0.37			0.27	0.5	0.050
3	2.00		0.43			0.28	0.5	0.060
4	2.50		0.46			0.32	0.5	0.074
5	3.00		0.36			0.54	0.5	0.097
6	3.50		0.38			0.31	0.5	0.059
7	4.00		0.45			0.67	0.5	0.151
8	4.50		0.40			0.49	0.5	0.098
9	5.00		0.38			0.27	0.5	0.051
10	5.50		0.37			0.58	0.75	0.161
11	6.50		0.47			0.21	0.75	0.074
12	7.00		0.37			0.18	0.5	0.033
13	7.50		0.42			0.28	0.5	0.059
14	8.00		0.54			0.15	0.5	0.041
15	8.50		0.54			0.11	0.5	0.030
16	9.00		0.38			0.49	0.5	0.092
17	9.50		0.33			0.23	0.5	0.038
18	10.00		0.44			0.17	0.5	0.037
19	10.50		0.38			0.19	0.5	0.036
20	11.00		0.44			0.37	0.5	0.081
21	11.50		0.35			0.43	0.5	0.075
22	12.00		0.36			0.44	0.45	0.071
23	12.40		0.35			0.28	0.25	0.025
Left Bank	12.50		0.00			0.00	0.05	0.000

1.502

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 5 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK/RE

MEASUREMENT START TIME: 1645 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.80		0.00			0.00	0.1	0.000
1	2.00		0.34			0.20	0.35	0.024
2	2.50		0.33			0.32	0.5	0.053
3	3.00		0.34			0.25	0.5	0.043
4	3.50		0.32			0.42	0.5	0.067
5	4.00		0.26			0.39	0.5	0.051
6	4.50		0.33			0.43	0.5	0.071
7	5.00		0.36			0.25	0.5	0.045
8	5.50		0.43			0.46	0.5	0.099
9	6.00		0.42			0.28	0.5	0.059
10	6.50		0.41			0.08	0.5	0.016
11	7.00		0.42			0.27	0.5	0.057
12	7.50		0.44			0.24	0.5	0.053
13	8.00		0.40			0.15	0.5	0.030
14	8.50		0.44			0.27	0.5	0.059
15	9.00		0.47			0.23	0.5	0.054
16	9.50		0.48			0.41	0.5	0.098
17	10.00		0.46			0.42	0.5	0.097
18	10.50		0.42			0.50	0.5	0.105
19	11.00		0.45			0.43	0.5	0.097
20	11.50		0.47			0.15	0.5	0.035
21	12.00		0.38			0.35	0.5	0.067
22	12.50		0.34			0.43	0.5	0.073
23	13.00		0.16			0.29	0.5	0.023
24	13.50		0.06			0.00	0.55	0.000
Left Bank	14.10		0.00			0.00	0.3	0.000

1.375

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 19 August 2005

METER NUMBER: Marsh McBirney

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: not recorded

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.85		0.00			0.00	0.025	0.000
1	1.90		0.31			0.12	0.075	0.003
2	2.00		0.32			0.17	0.175	0.010
3	2.25		0.30			0.27	0.25	0.020
4	2.50		0.26			0.27	0.375	0.026
5	3.00		0.32			0.33	0.5	0.053
6	3.50		0.30			0.29	0.5	0.044
7	4.00		0.24			0.34	0.5	0.041
8	4.50		0.32			0.40	0.5	0.064
9	5.00		0.26			0.22	0.5	0.029
10	5.50		0.28			0.31	0.5	0.043
11	6.00		0.35			0.31	0.5	0.054
12	6.50		0.39			0.13	0.5	0.025
13	7.00		0.41			0.19	0.5	0.039
14	7.50		0.41			0.12	0.5	0.025
15	8.00		0.34			0.13	0.5	0.022
16	8.50		0.37			0.26	0.5	0.048
17	9.00		0.48			0.29	0.5	0.070
18	9.50		0.37			0.37	0.5	0.068
19	10.00		0.36			0.37	0.5	0.067
20	10.50		0.40			0.43	0.5	0.086
21	11.00		0.44			0.39	0.5	0.086
22	11.50		0.40			0.24	0.5	0.048
23	12.00		0.34			0.21	0.5	0.036
24	12.50		0.30			0.29	0.375	0.033
25	12.75		0.15			0.22	0.5	0.017
Left Bank	13.50		0.00			0.00	0.375	0.000

1.055

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 31 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1030 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m³/s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.85		0.00			0.00	0.05	0.000
1	1.95		0.34			0.12	0.075	0.003
2	2.00		0.35			0.14	0.15	0.007
3	2.25		0.28			0.24	0.25	0.017
4	2.50		0.35			0.27	0.375	0.035
5	3.00		0.35			0.23	0.5	0.040
6	3.50		0.33			0.41	0.5	0.068
7	4.00		0.22			0.37	0.5	0.041
8	4.50		0.35			0.34	0.5	0.060
9	5.00		0.36			0.20	0.5	0.036
10	5.50		0.37			0.27	0.5	0.050
11	6.00		0.38			0.20	0.5	0.038
12	6.50		0.38			0.11	0.5	0.021
13	7.00		0.47			0.16	0.5	0.038
14	7.50		0.40			0.13	0.5	0.026
15	8.00		0.41			0.15	0.5	0.031
16	8.50		0.43			0.27	0.5	0.058
17	9.00		0.49			0.28	0.5	0.069
18	9.50		0.39			0.38	0.5	0.074
19	10.00		0.41			0.38	0.5	0.078
20	10.50		0.43			0.40	0.5	0.086
21	11.00		0.44			0.41	0.5	0.090
22	11.50		0.41			0.12	0.5	0.025
23	12.00		0.35			0.32	0.5	0.056
24	12.50		0.29			0.21	0.375	0.023
25	12.75		0.20			0.53	0.25	0.027
26	13.00		0.11			0.14	0.25	0.004
27	13.25		0.08			0.14	0.5	0.006
Left Bank	14.00		0.00			0.00	0.375	0.000

1.104

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 31 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1115 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.85		0.00			0.00	0.075	0.000
1	2.00		0.19			0.06	0.2	0.002
2	2.25		0.29			0.12	0.25	0.009
3	2.50		0.38			0.19	0.25	0.018
4	2.75		0.39			0.27	0.25	0.026
5	3.00		0.43			0.32	0.375	0.052
6	3.50		0.48			0.23	0.5	0.055
7	4.00		0.57			0.29	0.5	0.083
8	4.50		0.62			0.36	0.5	0.112
9	5.00		0.65			0.30	0.5	0.098
10	5.50		0.63			0.36	0.5	0.113
11	6.00		0.72			0.31	0.5	0.112
12	6.50		0.60			0.14	0.5	0.042
13	7.00		0.56			0.29	0.5	0.081
14	7.50		0.51			0.26	0.5	0.066
15	8.00		0.46			0.14	0.5	0.032
16	8.50		0.37			0.13	0.5	0.024
17	9.00		0.39			0.13	0.5	0.025
18	9.50		0.28			0.18	0.5	0.025
19	10.00		0.23			0.18	0.5	0.021
20	10.50		0.15			0.15	0.375	0.008
21	10.75		0.14			0.11	0.25	0.004
Left Bank	11.00		0.00			0.00	0.125	0.000

1.008

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 14 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1525 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.80		0.00			0.00	0.05	0.000
1	1.90		0.31			0.07	0.3	0.007
2	2.40		0.30			0.20	0.5	0.030
3	2.90		0.34			0.15	0.5	0.026
4	3.40		0.28			0.22	0.5	0.031
5	3.90		0.25			0.22	0.5	0.028
6	4.40		0.29			0.26	0.5	0.038
7	4.90		0.34			0.22	0.5	0.037
8	5.40		0.36			0.33	0.5	0.059
9	5.90		0.38			0.19	0.5	0.036
10	6.40		0.37			0.17	0.5	0.031
11	6.90		0.42			0.25	0.5	0.053
12	7.40		0.38			0.20	0.5	0.038
13	7.90		0.37			0.19	0.5	0.035
14	8.40		0.41			0.24	0.5	0.049
15	8.90		0.48			0.29	0.5	0.070
16	9.40		0.44			0.31	0.5	0.068
17	9.90		0.42			0.28	0.5	0.059
18	10.40		0.37			0.34	0.5	0.063
19	10.90		0.41			0.32	0.5	0.066
20	11.40		0.40			0.16	0.5	0.032
21	11.90		0.36			0.33	0.5	0.059
22	12.40		0.26			0.23	0.5	0.030
23	12.90		0.11			0.00	0.34	0.000
Left Bank	13.08		0.00			0.00	0.09	0.000

0.944

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Little Roberts Outflow

LOCATION: Outlet of Little Roberts Lake

COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 14 September 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1540 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	2.00		0.00			0.00	0.25	0.000
1	2.50		0.30			0.11	0.5	0.017
2	3.00		0.37			0.16	0.5	0.030
3	3.50		0.47			0.28	0.5	0.066
4	4.00		0.54			0.28	0.5	0.076
5	4.50		0.56			0.28	0.5	0.078
6	5.00		0.58			0.20	0.5	0.058
7	5.50		0.59			0.27	0.5	0.080
8	6.00		0.68			0.20	0.5	0.068
9	6.50		0.60			0.17	0.5	0.051
10	7.00		0.54			0.18	0.5	0.049
11	7.50		0.46			0.21	0.5	0.048
12	8.00		0.43			0.09	0.5	0.019
13	8.50		0.40			0.12	0.5	0.024
14	9.00		0.36			0.08	0.5	0.014
15	9.50		0.26			0.12	0.5	0.016
16	10.00		0.21			0.09	0.5	0.009
17	10.50		0.12			0.09	0.375	0.004
18	10.75		0.11			0.05	0.25	0.001
Left Bank	11.00		0.00			0.00	0.125	0.000

0.708

PROJECT NAME: Miramar Doris North
PROJECT NO.: 05-1373-014.6600
DISCHARGE DATA

STREAM NAME: Little Roberts Outflow
LOCATION: Outlet of Little Roberts Lake
COORDINATES: 434320 m E, 7562920 m N (NAD27)

MEASUREMENT DATE: 17 September 2005
METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK
COMPUTATIONS BY: AH/JA/BT

MEASUREMENT START TIME: 1200 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.25	0.000
1	0.50		0.25			0.11	0.5	0.014
2	1.00		0.35			0.18	0.5	0.032
3	1.50		0.43			0.25	0.5	0.054
4	2.00		0.51			0.17	0.5	0.043
5	2.50		0.55			0.20	0.5	0.055
6	3.00		0.57			0.21	0.5	0.060
7	3.50		0.59			0.26	0.5	0.077
8	4.00		0.64			0.20	0.5	0.064
9	4.50		0.59			0.13	0.5	0.038
10	5.00		0.52			0.16	0.5	0.042
11	5.50		0.46			0.17	0.5	0.039
12	6.00		0.43			0.13	0.5	0.028
13	6.50		0.37			0.13	0.5	0.024
14	7.00		0.32			0.12	0.5	0.019
15	7.50		0.22			0.13	0.5	0.014
16	8.00		0.20			0.09	0.5	0.009
17	8.50		0.10			0.05	0.475	0.002
Left Bank	8.95		0.00			0.00	0.225	0.000

0.614

DORIS LAKE HYDROMETRIC STATION

H74 FACTSHEET

LOCATION AND DETAILS

Located on bedrock outcrop on west shore of Doris Lake.

Operational: 2004 (7 May – 10 September)^a
2005 (Ongoing)

Benchmark: Rock bolt ; 23.546 m (geodetic)

Coordinates: UTM: 434491 m E, 7558256 m N (NAD27)

Datalogger: Optimum Instruments #1167

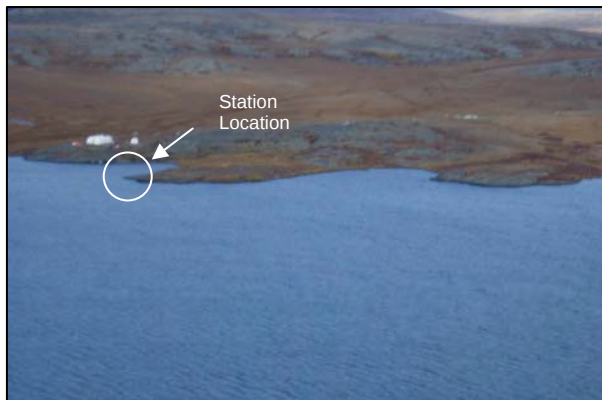
Thermistor: 5 kΩ

2004 (10 September – 31 December)^a

Drainage Area: 93.1 km²

Lat/Long: 68°07'56" N, 106°34'34" W

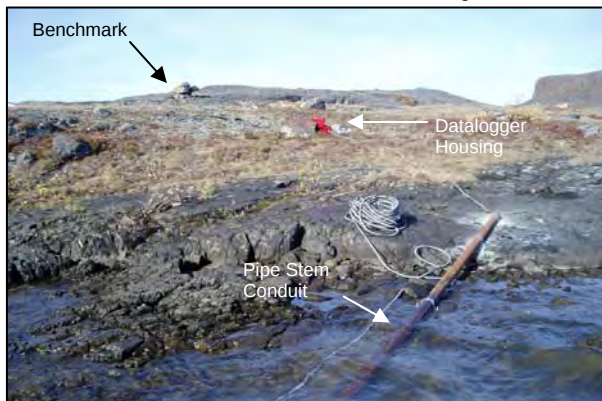
Transducer: KPSI #0202699 (8 psi, 20 m)
KPSI #0405797 (10 psi, 60 m)



Aerial view of Doris Lake Station H74 looking west.



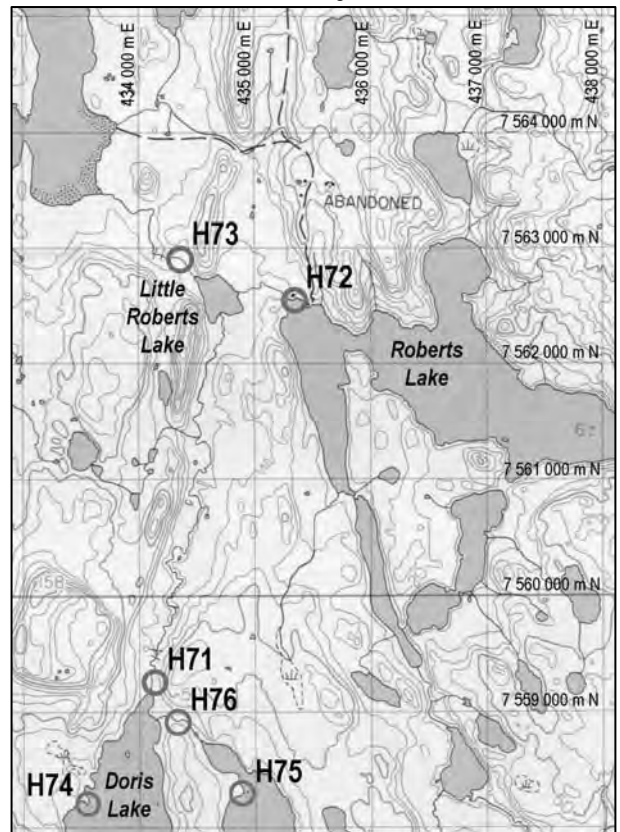
Station H74 looking southwest.



Station H74 from lake looking northwest.



Station H74 benchmark.



NTS Mapping of Area.

(a) This station was installed as a temporary station in the spring of 2004. On 10 September 2004, the temporary pressure transducer was replaced with one that allowed placement into water deep enough for overwintering. A thermistor was also installed to monitor lake bottom temperatures.

Doris Lake Station H74 – Survey Data (2004-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Stage Datum	geodetic
					Water Surface Elevation (m)	Stage (m)
5/7/2004 17:00	-0.0191					
6/5/2004 0:00	-					
6/6/2004 0:00	0.7910	20.642			21.433 *	21.433 *
6/7/2004 0:00	0.7893	20.689			21.478 *	21.478 *
6/8/2004 0:00	0.7989					
6/9/2004 13:21	0.8386	20.654	20.662		21.493 *	21.493 *
6/13/2004 10:47	Transducer Shift					
6/15/2004 0:00	Transducer Shift					
6/23/2004 13:01	1.2285	20.557			21.786	21.786
7/18/2004 12:03	1.1131	20.539			21.652	21.652
7/20/2004 13:31	1.0971	20.545			21.642	21.642
9/10/2004 10:18	0.8482	20.546	20.547		21.394	21.394
6/27/2005 12:06	5.9320	15.869			21.801	21.808
6/28/2005 15:40	5.9253				-	21.801
7/22/2005 19:40	5.7633	15.883			21.646	21.639
9/15/2005 12:15	n/a				21.485	n/a
9/16/2005 10:00	5.6053				-	21.481
9/17/2005 12:10	5.5909		15.876		-	21.467

* Elevations likely local; water surface elevation near shore not equal to that in the lake

H74 – DORIS LAKE - 2005
MEAN DAILY WATER LEVELS (m) BASED ON BENCHMARK EL. 23.546 m

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	21.826 D	21.619 D	21.513 D	-	-	-
2	-	-	-	-	-	-	21.815 D	21.620 D	21.513 D	-	-	-
3	-	-	-	-	-	-	21.808 D	21.614 D	21.513 D	-	-	-
4	-	-	-	-	-	-	21.803 D	21.612 D	21.512 D	-	-	-
5	-	-	-	-	-	-	21.798 D	21.603 D	21.510 D	-	-	-
6	-	-	-	-	-	-	21.793 D	21.596 D	21.509 D	-	-	-
7	-	-	-	-	-	-	21.786 D	21.589 D	21.507 D	-	-	-
8	-	-	-	-	-	21.761 E	21.772 D	21.582 D	21.500 D	-	-	-
9	-	-	-	-	-	21.777 E	21.770 D	21.575 D	21.498 D	-	-	-
10	-	-	-	-	-	21.787 E	21.765 D	21.569 D	21.494 D	-	-	-
11	-	-	-	-	-	21.800 E	21.757 D	21.558 D	21.487 D	-	-	-
12	-	-	-	-	-	21.819 E	21.748 D	21.553 D	21.478 D	-	-	-
13	-	-	-	-	-	21.842 E	21.742 D	21.554 D	21.470 D	-	-	-
14	-	-	-	-	-	21.854 E	21.732 D	21.556 D	21.469 D	-	-	-
15	-	-	-	-	-	21.875 E	21.719 D	21.556 D	21.466 D	-	-	-
16	-	-	-	-	-	21.913 E	21.708 D	21.552 D	21.466 D	-	-	-
17	-	-	-	-	-	21.935 E	21.697 D	21.546 D	21.465 D	-	-	-
18	-	-	-	-	-	21.950 E	21.684 D	21.541 D	-	-	-	-
19	-	-	-	-	-	21.939 E	21.679 D	21.538 D	-	-	-	-
20	-	-	-	-	-	21.927 E	21.675 D	21.535 D	-	-	-	-
21	-	-	-	-	-	21.916 E	21.669 D	21.524 D	-	-	-	-
22	-	-	-	-	-	21.901 E	21.661 D	21.520 D	-	-	-	-
23	-	-	-	-	-	21.880 E	21.654 D	21.515 D	-	-	-	-
24	-	-	-	-	-	21.871 E	21.647 D	21.520 D	-	-	-	-
25	-	-	-	-	-	21.864 E	21.643 D	21.522 D	-	-	-	-
26	-	-	-	-	-	21.854 E	21.636 D	21.522 D	-	-	-	-
27	-	-	-	-	-	21.848 D	21.636 D	21.523 D	-	-	-	-
28	-	-	-	-	-	21.842 D	21.631 D	21.515 D	-	-	-	-
29	-	-	-	-	-	21.831 D	21.627 D	21.504 D	-	-	-	-
30	-	-	-	-	-	21.827 D	21.621 D	21.508 D	-	-	-	-
31	-	-	-	-	-	-	21.618 D	21.512 D	-	-	-	-
MIN	-	-	-	-	-	21.761	21.618	-	21.465	-	-	-
MEAN	-	-	-	-	-	21.861	21.714	-	21.492	-	-	-
MAX	-	-	-	-	-	21.950	21.826	-	21.513	-	-	-

MEAN DAILY WATER TEMPERATURE (°C) AT TRANSDUCER

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	-	8.035	9.273	-	-	-
2	-	-	-	-	-	-	-	8.391	9.296	-	-	-
3	-	-	-	-	-	-	-	8.888	9.427	-	-	-
4	-	-	-	-	-	-	-	9.795	9.608	-	-	-
5	-	-	-	-	-	-	-	9.470	9.854	-	-	-
6	-	-	-	-	-	-	-	9.797	9.900	-	-	-
7	-	-	-	-	-	-	-	10.176	9.634	-	-	-
8	-	-	-	-	-	-	-	9.801	9.773	-	-	-
9	-	-	-	-	-	-	-	9.688	9.408	-	-	-
10	-	-	-	-	-	-	-	10.556	9.192	-	-	-
11	-	-	-	-	-	-	-	9.916	8.836	-	-	-
12	-	-	-	-	-	-	-	10.347	8.423	-	-	-
13	-	-	-	-	-	-	-	10.530	7.874	-	-	-
14	-	-	-	-	-	-	-	10.302	7.442	-	-	-
15	-	-	-	-	-	-	-	10.134	7.117	-	-	-
16	-	-	-	-	-	-	-	10.094	6.822	-	-	-
17	-	-	-	-	-	-	-	10.181	6.563 P	-	-	-
18	-	-	-	-	-	-	-	10.605	-	-	-	-
19	-	-	-	-	-	-	-	10.825	-	-	-	-
20	-	-	-	-	-	-	-	11.662	-	-	-	-
21	-	-	-	-	-	-	-	11.164	-	-	-	-
22	-	-	-	-	-	-	6.842 P	10.547	-	-	-	-
23	-	-	-	-	-	-	6.692	10.301	-	-	-	-
24	-	-	-	-	-	-	6.731	10.167	-	-	-	-
25	-	-	-	-	-	-	6.890	10.451	-	-	-	-
26	-	-	-	-	-	-	7.063	10.783	-	-	-	-
27	-	-	-	-	-	2.795 P	7.176	11.293	-	-	-	-
28	-	-	-	-	-	2.788 P	7.521	10.574	-	-	-	-
29	-	-	-	-	-	-	8.221	10.119	-	-	-	-
30	-	-	-	-	-	-	8.877	9.833	-	-	-	-
31	-	-	-	-	-	-	8.797	9.542	-	-	-	-
MIN	-	-	-	-	-	2.788	6.692	-	6.563	-	-	-
MEAN	-	-	-	-	-	2.791	7.481	-	8.732	-	-	-
MAX	-	-	-	-	-	2.795	8.877	-	9.900	-	-	-

NOTES: D – DERIVED BASED ON DOWNSTREAM DISCHARGES E – ESTIMATED P – PARTIAL DAILY AVERAGE

TAIL LAKE HYDROMETRIC STATION

H75 FACTSHEET

LOCATION AND PURPOSE

Located on bedrock outcrop on northwest shore of Tail Lake.

Operational: 2004 (8 May – 10 September)^a
2005 (Ongoing)

Benchmark: Rock bolt ; 29.339 m (geodetic)

Coordinates: UTM: 434896 m E, 7558296 m N (NAD27)

Datalogger: Optimum Instruments #0639

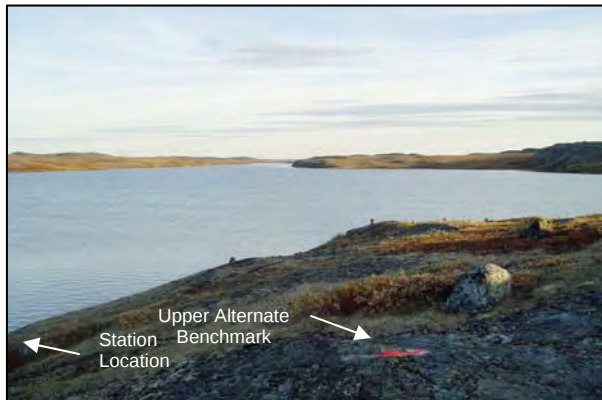
Thermistor: 5 k Ω

2004 (10 September –31 December)^a

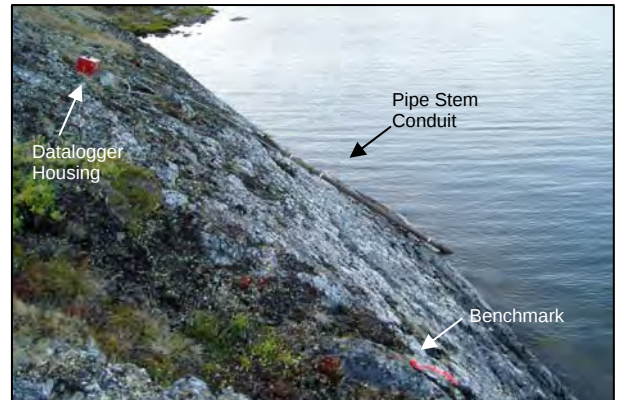
Drainage Area: 4.4 km²

Lat/Long: 68°07'58" N, 106°33'59" W

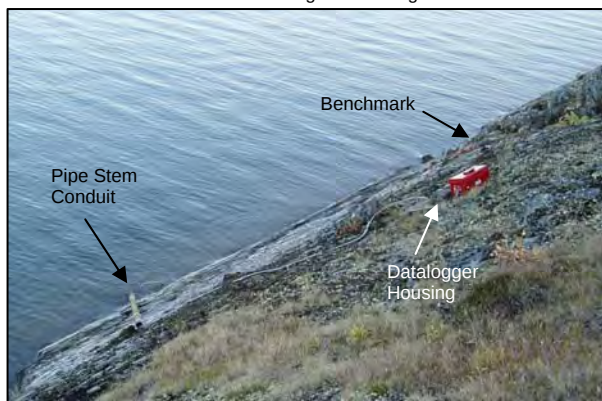
Transducer: KPSI #0202698 (8 psi, 20 m)
KPSI #0405798 (10 psi, 60 m)



Station H75 area looking south along Tail Lake.



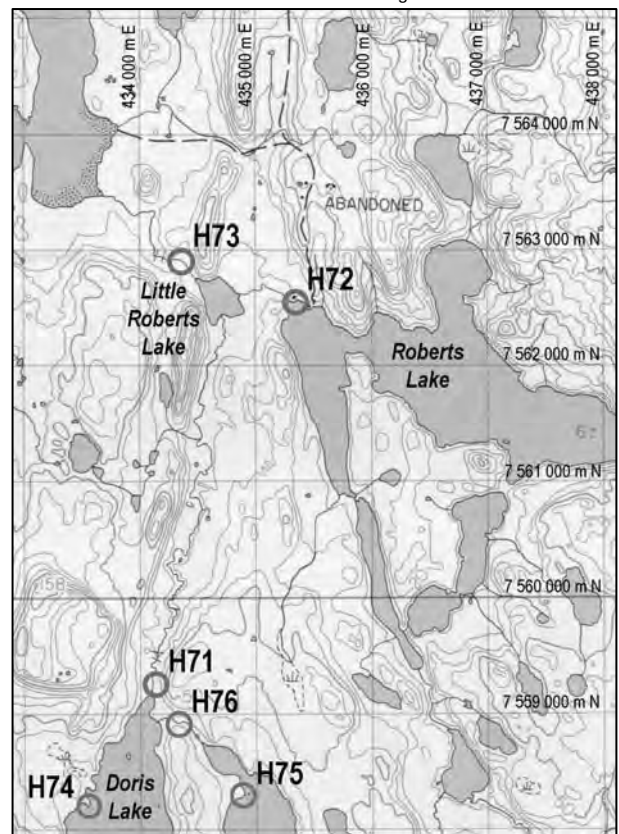
Tail Lake Station H75 looking north.



Tail Lake Station H75 looking east towards water.



Tail Lake Station H75 looking southeast towards water.



NTS Mapping of Area.

(a) This station was installed as a temporary station in the spring of 2004. On 10 September 2004, the temporary pressure transducer was replaced with one that allowed placement into water deep enough for overwintering. A thermistor was also installed to monitor lake bottom temperatures.

Tail Lake Station H75 – Survey Data (2004-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Stage Datum	geodetic
					Water Surface Elevation (m)	Stage (m)
5/8/2004 15:13	-					
6/5/2004 0:00	-	-			n/a	n/a
6/6/2004 0:00	0.5200	-			n/a	n/a
6/7/2004 0:00	-	-			n/a	n/a
6/8/2004 0:00	0.4580	-			n/a	n/a
6/9/2004 14:57	0.6500	-			n/a	n/a
6/19/2004 14:12	0.8896	27.390	27.390 *		28.279	n/a
6/22/2004 21:53	transducer shifted					
7/18/2004 11:09	0.9533				28.253	28.253
7/19/2004 16:24	0.9518				28.252	28.252
9/10/2004 17:08	0.8412	27.300			28.141	28.141
9/11/2004 9:00	-	n/a	27.300		28.141	28.141
6/26/2005 12:49	5.0191	23.274		28.293	28.300	28.300
7/18/2005 10:15	4.9718	23.267		28.239	28.253	28.253
9/16/2005 14:45	4.9232	23.302		28.225	28.204	28.204
9/17/2005 10:15	4.9216	-	23.281	-	28.203	28.203

* Based on observed transducer shift on 22 Jun 04

H75 – TAIL LAKE - 2004
MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 29.339 m

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	-	-	-	28.126	28.152	28.158
2	-	-	-	-	-	-	-	-	-	28.126	28.152	28.160
3	-	-	-	-	-	-	-	-	-	28.126	28.152	28.160
4	-	-	-	-	-	-	-	-	-	28.126	28.152	28.160
5	-	-	-	-	-	-	-	-	-	28.125	28.152	28.159
6	-	-	-	-	-	-	-	-	-	28.124	28.153	28.159
7	-	-	-	-	-	-	-	-	-	28.124	28.154	28.159
8	-	-	-	-	-	-	-	-	-	28.124	28.154	28.159
9	-	-	-	-	-	-	-	-	-	28.125	28.154	28.159
10	-	-	-	-	-	-	-	-	28.129 P	28.131	28.155	28.159
11	-	-	-	-	-	-	-	-	28.131	28.131	28.154	28.159
12	-	-	-	-	-	-	-	-	28.129	28.134	28.155	28.159
13	-	-	-	-	-	-	-	-	28.130	28.134	28.151	28.159
14	-	-	-	-	-	-	-	-	28.135	28.134	28.151	28.160
15	-	-	-	-	-	-	-	-	28.135	28.134	28.156	28.159
16	-	-	-	-	-	-	-	-	28.134	28.134	28.158	28.158
17	-	-	-	-	-	-	-	-	28.132	28.134	28.157	28.158
18	-	-	-	-	-	-	-	-	28.131	28.134	28.157	28.157
19	-	-	-	-	-	-	-	-	28.131	28.131	28.157	28.156
20	-	-	-	-	-	-	-	-	28.130	28.131	28.157	28.156
21	-	-	-	-	-	-	-	-	28.129	28.130	28.157	28.156
22	-	-	-	-	-	-	-	-	28.128	28.130	28.158	28.156
23	-	-	-	-	-	-	-	-	28.128	28.130	28.158	28.155
24	-	-	-	-	-	-	-	-	28.128	28.130	28.159	28.155
25	-	-	-	-	-	-	-	-	28.127	28.132	28.159	28.155
26	-	-	-	-	-	-	-	-	28.126	28.133	28.159	28.153
27	-	-	-	-	-	-	-	-	28.126	28.132	28.159	28.153
28	-	-	-	-	-	-	-	-	28.125	28.138	28.159	28.154
29	-	-	-	-	-	-	-	-	28.125	28.140	28.159	28.154
30	-	-	-	-	-	-	-	-	28.126	28.140	28.159	28.153
31	-	-	-	-	-	-	-	-	-	28.151	-	28.152
MIN	-	-	-	-	-	-	-	-	28.125	28.124	28.151	28.152
MEAN	-	-	-	-	-	-	-	-	28.129	28.131	28.156	28.157
MAX	-	-	-	-	-	-	-	-	28.135	28.151	28.159	28.160

MEAN DAILY WATER TEMPERATURE (°C) AT TRANSDUCER

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	-	-	-	1.125	2.448	2.329
2	-	-	-	-	-	-	-	-	-	1.291	2.455	2.334
3	-	-	-	-	-	-	-	-	-	1.508	2.453	2.320
4	-	-	-	-	-	-	-	-	-	1.683	2.434	2.318
5	-	-	-	-	-	-	-	-	-	1.765	2.431	2.298
6	-	-	-	-	-	-	-	-	-	1.821	2.431	2.284
7	-	-	-	-	-	-	-	-	-	1.923	2.421	2.288
8	-	-	-	-	-	-	-	-	-	2.008	2.413	2.286
9	-	-	-	-	-	-	-	-	-	2.070	2.406	2.282
10	-	-	-	-	-	-	-	-	4.355 P	2.119	2.396	2.283
11	-	-	-	-	-	-	-	-	4.392	2.150	2.389	2.273
12	-	-	-	-	-	-	-	-	4.510	2.174	2.386	2.263
13	-	-	-	-	-	-	-	-	4.734	2.206	2.388	2.252
14	-	-	-	-	-	-	-	-	4.875	2.234	2.399	2.244
15	-	-	-	-	-	-	-	-	4.857	2.258	2.407	2.228
16	-	-	-	-	-	-	-	-	4.621	2.292	2.410	2.230
17	-	-	-	-	-	-	-	-	4.288	2.326	2.404	2.213
18	-	-	-	-	-	-	-	-	3.987	2.339	2.397	2.221
19	-	-	-	-	-	-	-	-	3.743	2.355	2.382	2.214
20	-	-	-	-	-	-	-	-	3.117	2.372	2.374	2.204
21	-	-	-	-	-	-	-	-	2.861	2.396	2.378	2.183
22	-	-	-	-	-	-	-	-	2.493	2.421	2.379	2.183
23	-	-	-	-	-	-	-	-	2.181	2.440	2.376	2.190
24	-	-	-	-	-	-	-	-	1.994	2.443	2.375	2.176
25	-	-	-	-	-	-	-	-	1.657	2.449	2.386	2.169
26	-	-	-	-	-	-	-	-	1.513	2.454	2.377	2.156
27	-	-	-	-	-	-	-	-	1.576	2.460	2.361	2.154
28	-	-	-	-	-	-	-	-	1.107	2.467	2.353	2.143
29	-	-	-	-	-	-	-	-	0.938	2.462	2.352	2.128
30	-	-	-	-	-	-	-	-	0.831	2.455	2.337	2.129
31	-	-	-	-	-	-	-	-	-	2.447	-	2.136
MIN	-	-	-	-	-	-	-	-	0.831	1.125	2.337	2.128
MEAN	-	-	-	-	-	-	-	-	3.078	2.158	2.397	2.229
MAX	-	-	-	-	-	-	-	-	4.875	2.467	2.455	2.334

NOTES: P – PARTIAL DAILY AVERAGE

E – ESTIMATED

H75 – TAIL LAKE - 2005
MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 29.339 m

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	28.153	28.145	28.151	28.151	28.157	28.212	28.294	28.251	28.235	-	-	-
2	28.153	28.147	28.153	28.152	28.155	28.221	28.294	28.257	28.234	-	-	-
3	28.153	28.148	28.156	28.153	28.156	28.228	28.291	28.257	28.233	-	-	-
4	28.152	28.149	28.157	28.155	28.157	28.242	28.290	28.256	28.231	-	-	-
5	28.153	28.148	28.157	28.153	28.157	28.253	28.291	28.253	28.230	-	-	-
6	28.154	28.149	28.157	28.152	28.157	28.257	28.287	28.250	28.228	-	-	-
7	28.155	28.148	28.157	28.152	28.158	28.260	28.284	28.249	28.227	-	-	-
8	28.156	28.149	28.156	28.152	28.158	28.265	28.283	28.246	28.225	-	-	-
9	28.156	28.150	28.156	28.152	28.158	28.271	28.284	28.243	28.223	-	-	-
10	28.157	28.150	28.157	28.153	28.158	28.275	28.282	28.239	28.220	-	-	-
11	28.157	28.152	28.157	28.154	28.157	28.280	28.280	28.234	28.217	-	-	-
12	28.157	28.153	28.156	28.155	28.157	28.287	28.277	28.231	28.211	-	-	-
13	28.157	28.152	28.155	28.154	28.157	28.296	28.275	28.237	28.206	-	-	-
14	28.157	28.153	28.154	28.156	28.156	28.301	28.271	28.242	28.205	-	-	-
15	28.158	28.152	28.154	28.157	28.155	28.308	28.268	28.243	28.205	-	-	-
16	28.156	28.151	28.154	28.159	28.155	28.323	28.264	28.241	28.204	-	-	-
17	28.153	28.151	28.154	28.160	28.156	28.332	28.258	28.240	28.204 P	-	-	-
18	28.154	28.151	28.154	28.159	28.155	28.337	28.255 P	28.238	-	-	-	-
19	28.153	28.151	28.154	28.159	28.155	28.313	28.254 E	28.236	-	-	-	-
20	28.152	28.152	28.154	28.157	28.155	28.311	28.253 E	28.235	-	-	-	-
21	28.150	28.150	28.153	28.156	28.153	28.307	28.253 E	28.231	-	-	-	-
22	28.150	28.149	28.153	28.155	28.153	28.319	28.252 E	28.231	-	-	-	-
23	28.151	28.150	28.151	28.157	28.152	28.311	28.252 E	28.231	-	-	-	-
24	28.153	28.151	28.152	28.160	28.152	28.307	28.251 E	28.239	-	-	-	-
25	28.153	28.149	28.154	28.160	28.153	28.304	28.251 E	28.242	-	-	-	-
26	28.153	28.149	28.155	28.161	28.153	28.301	28.250 E	28.242	-	-	-	-
27	28.152	28.150	28.156	28.162	28.158	28.299	28.249 E	28.242	-	-	-	-
28	28.150	28.150	28.156	28.162	28.161	28.297	28.249 P	28.237	-	-	-	-
29	28.147		28.153	28.161	28.164	28.293	28.249	28.235	-	-	-	-
30	28.146		28.152	28.161	28.182	28.293	28.247	28.237	-	-	-	-
31	28.146		28.151		28.199		28.245	28.237		-		-
MIN	28.146	28.145	28.151	28.151	28.152	28.212	28.245	28.231	28.204	-	-	-
MEAN	28.153	28.150	28.154	28.156	28.158	28.287	28.267	28.241	28.220	-	-	-
MAX	28.158	28.153	28.157	28.162	28.199	28.337	28.294	28.257	28.235	-	-	-

MEAN DAILY WATER TEMPERATURE (°C) AT TRANSDUCER

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	2.136	1.912	1.718	1.749	1.949	2.861	3.642	9.878	8.090	-	-	-
2	2.131	1.888	1.725	1.745	1.950	2.890	3.904	10.251	7.929	-	-	-
3	2.133	1.885	1.721	1.744	1.957	2.893	4.059	10.383	8.182	-	-	-
4	2.135	1.891	1.727	1.743	1.964	2.918	3.884	10.943	8.347	-	-	-
5	2.131	1.888	1.725	1.756	1.946	2.935	3.831	11.237	8.644	-	-	-
6	2.120	1.872	1.713	1.765	1.944	2.936	3.886	11.418	8.801	-	-	-
7	2.090	1.862	1.713	1.774	1.954	2.969	4.098	11.691	8.922	-	-	-
8	2.082	1.846	1.727	1.780	1.960	3.031	4.096	11.809	8.907	-	-	-
9	2.089	1.832	1.730	1.788	1.966	3.064	4.065	11.858	8.747	-	-	-
10	2.084	1.817	1.719	1.796	1.974	3.137	4.090	11.913	8.502	-	-	-
11	2.065	1.818	1.727	1.802	1.981	3.216	4.415	11.974	8.016	-	-	-
12	2.054	1.814	1.735	1.805	1.987	3.286	5.284	11.952	7.305	-	-	-
13	2.053	1.812	1.754	1.803	1.993	3.304	6.123	11.761	6.388	-	-	-
14	2.038	1.821	1.752	1.808	1.998	3.356	7.148	11.380	5.688	-	-	-
15	2.035	1.823	1.739	1.815	2.006	3.344	8.110	11.145	5.168	-	-	-
16	2.030	1.810	1.739	1.815	2.016	3.364	8.581	10.712	4.824	-	-	-
17	2.023	1.795	1.738	1.828	2.024	3.490	8.893	10.530	4.677 P	-	-	-
18	2.022	1.786	1.740	1.841	2.031	3.603	9.071 P	10.612	-	-	-	-
19	2.028	1.779	1.740	1.847	2.039	3.673	9.008 E	10.853	-	-	-	-
20	2.010	1.774	1.731	1.857	2.049	3.752	8.944 E	11.295	-	-	-	-
21	1.997	1.756	1.730	1.865	2.056	3.807	8.881 E	11.640	-	-	-	-
22	2.000	1.744	1.730	1.872	2.068	3.885	8.818 E	11.613	-	-	-	-
23	1.997	1.733	1.735	1.882	2.076	3.973	8.755 E	10.846	-	-	-	-
24	1.990	1.731	1.750	1.893	2.083	3.998	8.691 E	10.024	-	-	-	-
25	1.990	1.733	1.741	1.899	2.093	4.042	8.628 E	10.100	-	-	-	-
26	1.981	1.730	1.730	1.907	2.107	4.105	8.565 E	10.350	-	-	-	-
27	1.976	1.720	1.728	1.919	2.132	4.115	8.501 E	10.940	-	-	-	-
28	1.968	1.708	1.747	1.925	2.185	4.150	8.438 P	10.583	-	-	-	-
29	1.951		1.743	1.927	2.330	4.255	8.794	9.505	-	-	-	-
30	1.950		1.733	1.935	2.522	4.136	9.402	8.951	-	-	-	-
31	1.931		1.734		2.706		9.604	8.499		-		-
MIN	1.931	1.708	1.713	1.743	1.944	2.861	3.642	8.499	4.677	-	-	-
MEAN	2.039	1.806	1.733	1.829	2.066	3.483	6.846	10.860	7.479	-	-	-
MAX	2.136	1.912	1.754	1.935	2.706	4.255	9.604	11.974	8.922	-	-	-

NOTES: P – PARTIAL DAILY AVERAGE

E – ESTIMATED

TAIL LAKE OUTFLOW HYDROMETRIC STATION

H76 FACTSHEET

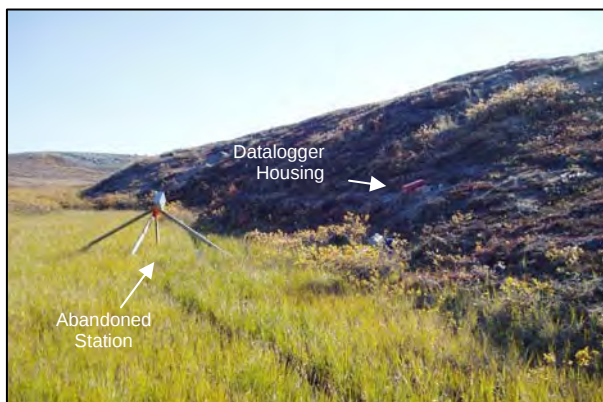
LOCATION AND PURPOSE

Located on the left downstream bank of Tail Lake outflow, approximately 200 m upstream of Doris Lake.

Operational:	2004 (20 June – 11 September)	2005(26 June – 17 September)
Benchmark:	Top of embedded boulder; 26.301 m (geodetic)	Drainage Area: 4.4 km ²
Coordinates:	UTM: 434270 m E, 7558965 m N (NAD27)	Lat/Long: 68°08'19" N, 106°34'55" W
Datalogger:	Optimum Instruments #0949	Transducer: KPSI #0402787 (5 psi, 15 m)



Aerial view of Tail Creek looking upstream from Doris to Tail Lake.



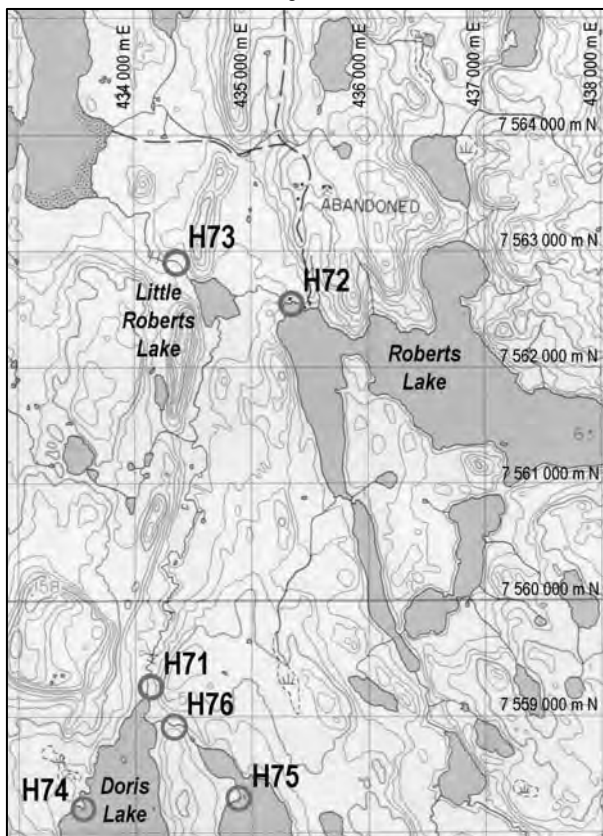
Tail Creek looking east at Station H76.



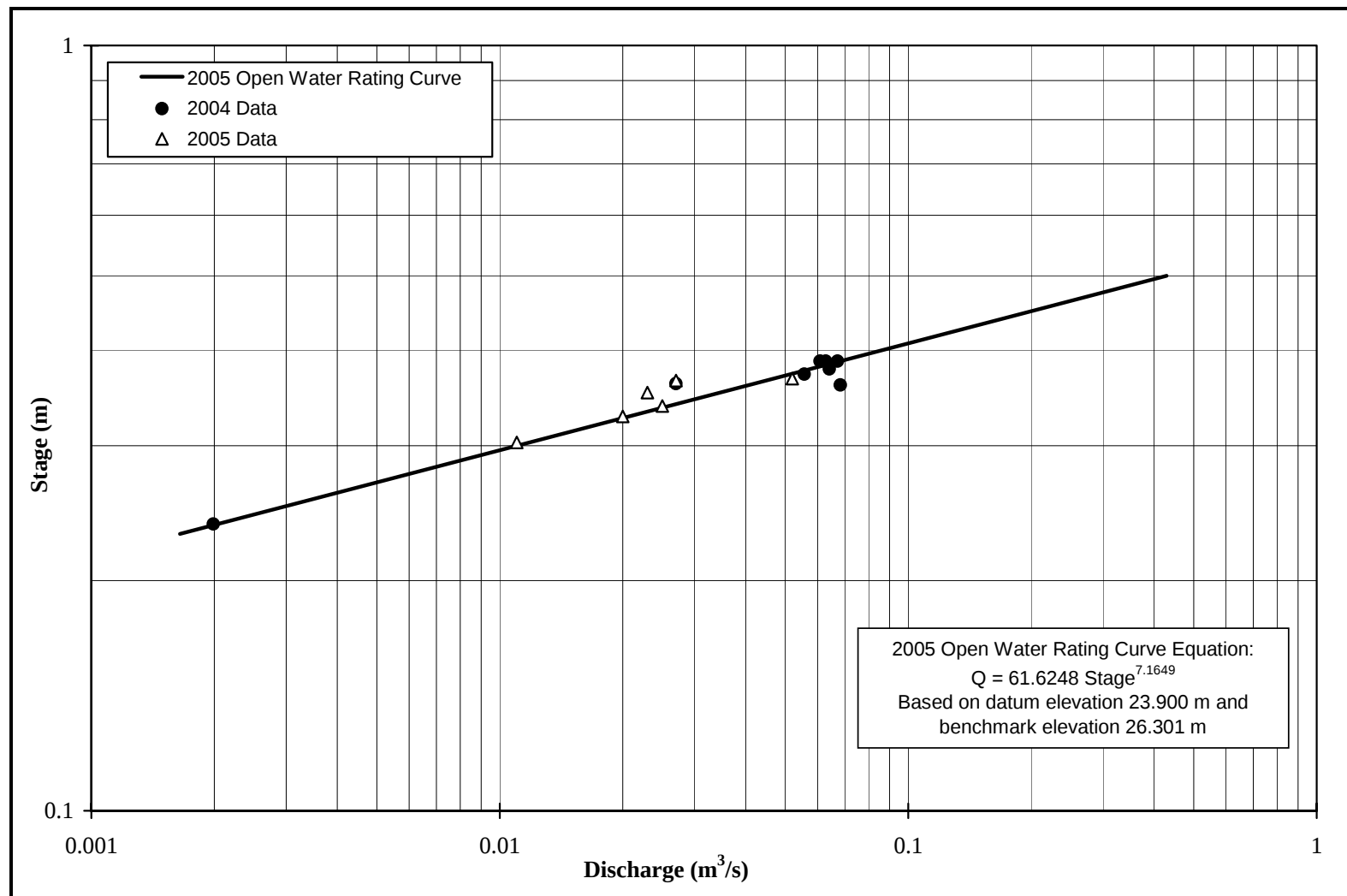
Station H76 looking west (downstream) during high water.



Station H76 looking east (upstream) during high water.



NTS Mapping of Area.



Tail Outflow Station H76 – Stage-Discharge Rating Curve (2005)

Tail Outflow Station H76 – Stage-Discharge Data (2004-2005)

Date & Time	Transducer Reading (m)	Transducer Elevation (m)	Average Transducer Elevation (m)	Staff Gauge Reading (m)	Stage Datum 23.900 m (geodetic)		
					Water Surface Elevation (m)	Stage (m)	Measured Discharge (m ³ /s)
6/9/2004 10:00							0.025
6/19/2004 10:30	0.1608	24.119			24.280	0.380	0.057
7/2/2004 11:05	0.1729	24.099			24.272	0.372	0.056
7/3/2004 12:48	0.1796	24.107			24.287	0.387	0.063
7/4/2004 12:30	0.1784	24.109			24.287	0.387	0.067
7/5/2004 8:38	0.1725	24.105			24.278	0.378	0.064
7/6/2004 8:40	0.1717	24.088			24.260	0.360	0.068
7/7/2004 12:48	0.1796	24.107	24.103		24.287	0.387	0.061
Transducer Replaced							
7/16/2004 11:15	0.1394	24.122			24.262	0.361	0.027
7/20/2004 11:54	0.1151	24.120			24.235	0.335	-
9/11/2004 10:58	0.0328	24.104	24.104		24.137	0.237	0.002
6/26/2005 16:05	0.2824	23.962			24.244	0.367	0.052
7/18/2005 11:05	0.2405	23.840			24.080	0.328	0.020
8/5/2005 20:45	0.2697	-			24.170	0.365	0.027
8/21/2005 16:30	0.2500	-			24.151	0.338	0.025
9/1/2005 12:30	0.2458	-			24.146	0.352	0.023
9/15/2005 15:20	0.1925	25.932			24.093	0.303	0.011
9/17/2005 10:20	0.1889	-	23.901		24.089	0.300	-

Stage datum shifted in 2005 to allow for movement of station

H76 – TAIL OUTFLOW - 2005
MEAN DAILY DISCHARGE (m³/s)

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	0.060	0.032	0.028	-	-	-
2	-	-	-	-	-	-	0.062	0.038	0.029	-	-	-
3	-	-	-	-	-	-	0.064	0.040	0.029	-	-	-
4	-	-	-	-	-	-	0.062	0.041	0.027	-	-	-
5	-	-	-	-	-	-	0.060	0.039	0.027	-	-	-
6	-	-	-	-	-	0.000 E	0.060	0.038	0.025	-	-	-
7	-	-	-	-	-	0.019 E	0.060	0.037	0.025	-	-	-
8	-	-	-	-	-	0.039 E	0.055	0.036	0.022	-	-	-
9	-	-	-	-	-	0.043 E	0.053	0.033	0.019	-	-	-
10	-	-	-	-	-	0.046 E	0.054	0.031	0.017	-	-	-
11	-	-	-	-	-	0.050 E	0.052	0.028	0.014	-	-	-
12	-	-	-	-	-	0.056 E	0.049	0.026	0.010	-	-	-
13	-	-	-	-	-	0.065 E	0.050	0.035	0.007	-	-	-
14	-	-	-	-	-	0.069 E	0.045	0.038	0.008	-	-	-
15	-	-	-	-	-	0.078 E	0.038	0.038	0.008	-	-	-
16	-	-	-	-	-	0.096 E	0.034	0.036	0.008	-	-	-
17	-	-	-	-	-	0.109 E	0.029	0.037	0.008 P	-	-	-
18	-	-	-	-	-	0.117 E	0.026	0.037	0.007 E	-	-	-
19	-	-	-	-	-	0.083 E	0.025	0.036	0.006 E	-	-	-
20	-	-	-	-	-	0.081 E	0.024	0.035	0.006 E	-	-	-
21	-	-	-	-	-	0.076 E	0.021	0.032	0.005 E	-	-	-
22	-	-	-	-	-	0.090 E	0.019	0.028	0.005 E	-	-	-
23	-	-	-	-	-	0.080 E	0.020	0.025	0.004 E	-	-	-
24	-	-	-	-	-	0.076 E	0.020	0.037	0.004 E	-	-	-
25	-	-	-	-	-	0.073 E	0.020	0.043	0.003 E	-	-	-
26	-	-	-	-	-	0.063 P	0.020	0.046	0.003 E	-	-	-
27	-	-	-	-	-	0.057	0.021	0.044	0.002 E	-	-	-
28	-	-	-	-	-	0.061	0.023	0.024	0.002 E	-	-	-
29	-	-	-	-	-	0.062	0.025	0.026	0.001 E	-	-	-
30	-	-	-	-	-	0.060	0.025	0.031	0.000 E	-	-	-
31	-	-	-	-	-	-	0.026	0.030	-	-	-	-
MIN	-	-	-	-	-	0.000	0.019	0.024	0.000	-	-	-
MEAN	-	-	-	-	-	0.066	0.039	0.035	0.012	-	-	-
MAX	-	-	-	-	-	0.117	0.064	0.046	0.029	-	-	-

MEAN DAILY WATER SURFACE ELEVATION (m) BASED ON BENCHMARK ELEVATION 26.301 m

DATE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	-	-	-	-	-	-	24.280	24.247	24.241	-	-	-
2	-	-	-	-	-	-	24.281	24.257	24.243	-	-	-
3	-	-	-	-	-	-	24.283	24.259	24.244	-	-	-
4	-	-	-	-	-	-	24.281	24.260	24.240	-	-	-
5	-	-	-	-	-	-	24.280	24.258	24.239	-	-	-
6	-	-	-	-	-	-	24.280	24.257	24.235	-	-	-
7	-	-	-	-	-	-	24.279	24.255	24.236	-	-	-
8	-	-	-	-	-	-	24.275	24.253	24.230	-	-	-
9	-	-	-	-	-	-	24.274	24.250	24.224	-	-	-
10	-	-	-	-	-	-	24.274	24.247	24.218	-	-	-
11	-	-	-	-	-	-	24.272	24.242	24.208	-	-	-
12	-	-	-	-	-	-	24.269	24.239	24.195	-	-	-
13	-	-	-	-	-	-	24.270	24.252	24.184	-	-	-
14	-	-	-	-	-	-	24.265	24.256	24.187	-	-	-
15	-	-	-	-	-	-	24.256	24.256	24.187	-	-	-
16	-	-	-	-	-	-	24.250	24.253	24.187	-	-	-
17	-	-	-	-	-	-	24.243	24.254	24.185 P	-	-	-
18	-	-	-	-	-	-	24.238	24.255	-	-	-	-
19	-	-	-	-	-	-	24.236	24.254	-	-	-	-
20	-	-	-	-	-	-	24.234	24.253	-	-	-	-
21	-	-	-	-	-	-	24.229	24.248	-	-	-	-
22	-	-	-	-	-	-	24.225	24.242	-	-	-	-
23	-	-	-	-	-	-	24.225	24.236	-	-	-	-
24	-	-	-	-	-	-	24.225	24.255	-	-	-	-
25	-	-	-	-	-	-	24.226	24.263	-	-	-	-
26	-	-	-	-	-	24.282 P	24.225	24.265	-	-	-	-
27	-	-	-	-	-	24.277	24.228	24.263	-	-	-	-
28	-	-	-	-	-	24.280	24.233	24.233	-	-	-	-
29	-	-	-	-	-	24.281	24.236	24.239	-	-	-	-
30	-	-	-	-	-	24.280	24.236	24.246	-	-	-	-
31	-	-	-	-	-	-	24.238	24.244	-	-	-	-
MIN	-	-	-	-	-	24.277	24.225	24.233	24.184	-	-	-
MEAN	-	-	-	-	-	24.280	24.253	24.251	24.217	-	-	-
MAX	-	-	-	-	-	24.282	24.283	24.265	24.244	-	-	-

NOTES: P - PARTIAL DAILY AVERAGE

E - ESTIMATED

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tail Outflow

LOCATION: Outlet of Tail Lake

COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 26 June 2005

METER NUMBER: Marsh-McBirney

MEASUREMENT BY: BT/HS

MEASUREMENT START TIME: 1500 h

COMPUTATIONS BY: JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.50		0.00			0.00	0.15	0.000
1	0.80		0.07			0.00	0.30	0.000
2	1.10		0.08			0.00	0.30	0.000
3	1.40		0.08			0.02	0.20	0.000
4	1.50		0.15			0.38	0.10	0.006
5	1.60		0.17			0.14	0.10	0.002
6	1.70		0.20			0.33	0.10	0.007
7	1.80		0.22			0.43	0.10	0.009
8	1.90		0.17			0.48	0.10	0.008
9	2.00		0.19			0.48	0.10	0.009
10	2.10		0.16			0.38	0.10	0.006
11	2.20		0.16			0.19	0.10	0.003
12	2.30		0.14			0.02	0.15	0.000
13	2.50		0.12			0.01	0.20	0.000
14	2.70		0.08			0.00	0.40	0.000
15	3.30		0.04			0.00	0.35	0.000
Left Bank	3.40		0.04			0.00	0.05	0.000

0.052

PROJECT NAME: Miramar Doris North
PROJECT NO.: 05-1373-014.6600
DISCHARGE DATA

STREAM NAME: Tail Outflow
LOCATION: Outlet of Tail Lake
COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 18 July 2005
METER NUMBER: Swoffer

MEASUREMENT BY: JH/HS
COMPUTATIONS BY: AH/JA/BT

MEASUREMENT START TIME: 1100 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	5.50		0.00			0.00	0.05	0.000
1	5.60		0.23			0.18	0.08	0.003
2	5.65		0.24			0.38	0.05	0.005
3	5.70		0.20			0.42	0.05	0.004
4	5.75		0.11			0.47	0.10	0.005
5	5.90		0.05			0.36	0.10	0.002
6	5.95		0.05			0.26	0.07	0.001
Left Bank	6.05		0.00			0.00	0.05	0.000
0.020								

PROJECT NAME: Miramar Doris North
PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tail Outflow
LOCATION: Outlet of Tail Lake
COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 5 August 2005
METER NUMBER: Marsh-McBirney

MEASUREMENT BY: RS/KK/RE
COMPUTATIONS BY: AH/JA/BT

MEASUREMENT START TIME: 2045 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.00		0.00			0.00	0.05	0.000
1	1.10		0.16			0.32	0.08	0.004
2	1.15		0.20			0.41	0.05	0.004
3	1.20		0.20			0.43	0.05	0.004
4	1.25		0.17			0.43	0.05	0.004
5	1.30		0.14			0.42	0.05	0.003
6	1.35		0.11			0.36	0.05	0.002
7	1.40		0.10			0.34	0.05	0.002
8	1.45		0.10			0.35	0.05	0.002
9	1.50		0.11			0.27	0.05	0.001
10	1.55		0.08			0.23	0.05	0.001
11	1.60		0.07			0.23	0.05	0.001
Left Bank	1.65		0.00			0.00	0.02	0.000

0.027

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tail Outflow

LOCATION: Outlet of Tail Lake

COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 21 August 2005

METER NUMBER: Marsh-McBirney

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1630 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.025	0.000
1	0.05		0.16			0.28	0.050	0.002
2	0.10		0.21			0.38	0.050	0.004
3	0.15		0.21			0.44	0.050	0.005
4	0.20		0.16			0.44	0.050	0.004
5	0.25		0.14			0.44	0.050	0.003
6	0.30		0.11			0.34	0.050	0.002
7	0.35		0.10			0.30	0.050	0.002
8	0.40		0.09			0.39	0.050	0.002
9	0.45		0.08			0.28	0.050	0.001
10	0.50		0.09			0.15	0.075	0.001
Left Bank	0.60		0.00			0.00	0.050	0.000

0.025

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tail Outflow

LOCATION: Outlet of Tail Lake

COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 1 September 2005

METER NUMBER: Marsh McBirney

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1230 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.85		0.00			0.00	0.04	0.000
1	0.92		0.11			0.17	0.05	0.001
2	0.95		0.16			0.21	0.04	0.001
3	1.00		0.20			0.33	0.06	0.004
4	1.06		0.22			0.40	0.05	0.004
5	1.10		0.15			0.40	0.04	0.003
6	1.15		0.13			0.39	0.05	0.003
7	1.20		0.16			0.36	0.05	0.003
8	1.25		0.09			0.33	0.05	0.001
9	1.30		0.08			0.31	0.05	0.001
10	1.35		0.07			0.26	0.05	0.001
11	1.40		0.06			0.12	0.09	0.001
Left Bank	1.52		0.00			0.00	0.06	0.000

0.023

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tail Outflow

LOCATION: Outlet of Tail Lake

COORDINATES: 434270 m E, 7558965 m N (NAD27)

MEASUREMENT DATE: 15 September 2005

METER NUMBER: Marsh McBirney

MEASUREMENT BY: RS/KK

MEASUREMENT START TIME: 1550 h

COMPUTATIONS BY: AH/JA/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	1.00		0.00			0.00	0.03	0.000
1	1.05		0.10			0.13	0.05	0.001
2	1.10		0.16			0.29	0.05	0.002
3	1.15		0.16			0.28	0.05	0.002
4	1.20		0.16			0.27	0.05	0.002
5	1.25		0.09			0.30	0.05	0.001
6	1.30		0.07			0.26	0.05	0.001
7	1.35		0.06			0.26	0.05	0.001
8	1.40		0.04			0.27	0.05	0.001
9	1.45		0.03			0.22	0.05	0.000
10	1.50		0.03			0.12	0.05	0.000
11	1.55		0.02			0.10	0.05	0.000
Left Bank	1.60		0.00			0.00	0.03	0.000

0.011

MISCELLANEOUS ADDITIONAL STREAM DISCHARGE MEASUREMENTS

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E14

MEASUREMENT DATE: 16 August 2005

LOCATION: Tributary to Roberts Lake - north side of lake near
the west end

METER NUMBER: Swoffer

COORDINATES: 436824 m E, 7563107 m N (NAD27)

MEASUREMENT BY: RS/AH

MEASUREMENT START TIME: 1040 h

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.10		0.00			0.00	0.03	0.000
1	0.15		0.18			0.58	0.05	0.005
2	0.20		0.19			0.72	0.05	0.007
3	0.25		0.20			0.79	0.05	0.008
4	0.30		0.20			0.91	0.05	0.009
5	0.35		0.16			0.91	0.05	0.007
6	0.40		0.14			0.74	0.05	0.005
7	0.45		0.11			0.92	0.05	0.005
8	0.50		0.11			0.84	0.05	0.005
9	0.55		0.11			0.77	0.05	0.004
10	0.60		0.12			0.70	0.05	0.004
11	0.65		0.12			0.55	0.05	0.003
12	0.70		0.11			0.23	0.05	0.001
13	0.75		0.08			0.13	0.05	0.001
14	0.80		0.07			0.07	0.05	0.000
Left Bank	0.85		0.00			0.00	0.03	0.000

0.065

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E12

LOCATION: Tributary to Roberts Lake – east end of lake

COORDINATES: 441414 m E, 7559252 m N (NAD27)

MEASUREMENT DATE: 26 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

COMPUTATIONS BY: AH/BT

MEASUREMENT START TIME: 1420 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.10		0.00			0.00	0.03	0.000
1	0.15		0.06			0.13	0.05	0.000
2	0.20		0.07			0.16	0.05	0.001
3	0.25		0.07			0.13	0.05	0.000
4	0.30		0.08			0.13	0.05	0.001
5	0.35		0.08			0.10	0.05	0.000
Left Bank	0.40		0.00			0.00		0.000

0.002

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E11 West

MEASUREMENT DATE: 26 August 2005

LOCATION: Tributary to Roberts Lake – south side of lake on the east end

METER NUMBER: Swoffer

COORDINATES: 441319 m E, 7559296 m N (NAD27)

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1555 h

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.000
1	0.10		0.11			0.03	0.08	0.000
2	0.15		0.11			0.12	0.05	0.001
3	0.20		0.07			0.12	0.08	0.001
4	0.30		0.07			0.35	0.10	0.002
5	0.40		0.10			0.45	0.08	0.003
6	0.45		0.10			0.50	0.05	0.003
7	0.50		0.14			0.71	0.06	0.006
Left Bank	0.57		0.00			0.00	0.04	0.000

0.016

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E11 East

MEASUREMENT DATE: 26 August 2005

LOCATION: Tributary to Roberts Lake – south side of lake on
the east end

METER NUMBER: Swoffer

COORDINATES: 441319 m E, 7559296 m N (NAD27)

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: not recorded

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.40		0.00			0.00	0.03	0.000
1	0.45		0.10			0.40	0.05	0.002
2	0.50		0.10			0.51	0.05	0.003
3	0.55		0.10			0.59	0.05	0.003
4	0.60		0.08			0.66	0.06	0.003
Left Bank	0.67		0.00			0.00		0.000

0.011

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E9

MEASUREMENT DATE: 26 August 2005

LOCATION: Tributary to Roberts Lake – south side of lake near the east end

METER NUMBER: Swoffer

COORDINATES: 441177 m E, 7559401 m N (NAD27)

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1700 h

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.000
1	0.10		0.08			0.76	0.08	0.005
2	0.15		0.12			0.59	0.05	0.004
3	0.20		0.14			0.77	0.05	0.005
4	0.25		0.14			0.97	0.05	0.007
5	0.30		0.13			1.05	0.05	0.007
6	0.35		0.14			0.90	0.05	0.006
7	0.40		0.15			1.00	0.05	0.008
8	0.45		0.29			0.63	0.05	0.009
9	0.50		0.29			1.31	0.05	0.019
10	0.55		0.21			1.06	0.05	0.011
11	0.60		0.09			0.92	0.05	0.004
Left Bank	0.65		0.00			0.00		0.000

0.085

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: E7

LOCATION: Tributary to Roberts Lake – south side of lake

COORDINATES: 438584 m E, 7561098 m N (NAD27)

MEASUREMENT DATE: 27 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: 1430 h

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m³/s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.05	0.000
1	0.10		0.10			0.17	0.10	0.002
2	0.20		0.11			0.18	0.10	0.002
3	0.30		0.13			0.10	0.10	0.001
4	0.40		0.10			0.14	0.10	0.001
5	0.50		0.09			0.26	0.10	0.002
6	0.60		0.10			0.13	0.10	0.001
7	0.70		0.10			0.04	0.10	0.000
8	0.80		0.08			0.02	0.10	0.000
Left Bank	0.90		0.00			0.00	0.05	0.000

0.011

PROJECT NAME: Miramar Doris North

PROJECT NO.: 05-1373-014.6600

DISCHARGE DATA

STREAM NAME: Tailings Pond 4 & 5 (now #2)

LOCATION: Outflow of Alternate Tailings Pond 2

COORDINATES: 434183 m E, 7561798 m N (NAD27)

MEASUREMENT DATE: 18 August 2005

METER NUMBER: Swoffer

MEASUREMENT BY: RS/EH

MEASUREMENT START TIME: not recorded

COMPUTATIONS BY: AH/BT

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.00		0.00			0.00	0.03	0.000
1	0.05		0.09			0.34	0.05	0.002
2	0.10		0.09			0.47	0.05	0.002
3	0.15		0.09			0.37	0.05	0.002
4	0.20		0.05			0.25	0.05	0.001
Left Bank	0.25		0.00			0.00	0.03	0.000

0.006

PROJECT NAME: Miramar Doris North
PROJECT NO.: 05-1373-014.6600
DISCHARGE DATA

STREAM NAME: Silver Creek Outflow
LOCATION:
COORDINATES: 435580 m E, 7562498 m N (NAD27)

MEASUREMENT DATE: 10 September 2005
METER NUMBER: Swoffer

MEASUREMENT BY: RS/KK
COMPUTATIONS BY: AH/BT

MEASUREMENT START TIME: 1020 h

STATION	DISTANCE TO RIGHT D/S BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY			WIDTH (m)	DISCHARGE (m ³ /s)
				0.2 Depth	0.8 Depth	0.6 Depth		
				(m/s)	(m/s)	(m/s)		
Right Bank	0.15		0.00			0.00	0.03	0.0000
1	0.20		0.04			0.08	0.05	0.0002
2	0.25		0.05			0.21	0.05	0.0005
3	0.30		0.03			0.15	0.08	0.0003
Left Bank	0.40		0.00			0.00	0.05	0.0000
0.0010								

Snow Course Survey Raw Data – Open Lake Plots

Location OL-05-1				Location OL-05-02				Location OL-05-03			
Date: 12-May-05				Date: 12-May-05				Date: 12-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
21.5	2.38	1.98	0.336	20.7	2.24	1.98	0.227	32.5	2.58	1.98	0.333
22	2.26	1.98	0.230	17.1	2.22	1.98	0.253	34	2.58	1.98	0.318
26.4	2.36	1.98	0.260	18	2.34	1.98	0.361	32.2	2.5	1.98	0.291
Average:			0.275	Average:			0.280	Average:			0.314
Depth	Snow Water Equivalent			Depth	Snow Water Equivalent			Depth	Snow Water Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
27.0	74.3			23.0	64.5			34.0	106.9		
25.0	68.8			24.0	67.3			33.0	103.7		
27.0	74.3			23.0	64.5			31.0	97.4		
18.0	49.5			26.0	72.9			32.0	100.6		
4.0	11.0			17.0	47.6			6.0	18.9		
8.0	22.0			18.0	50.4			34.0	106.9		
14.0	38.5			19.0	53.3			33.0	103.7		
8.0	22.0			17.0	47.6			33.0	103.7		
15.0	41.3			16.0	44.8			32.0	100.6		
18.0	49.5			17.0	47.6			33.0	103.7		
17.0	46.8			18.0	50.4			33.0	103.7		
13.0	35.8			18.0	50.4			34.0	106.9		
15.0	41.3			20.0	56.1			36.0	113.2		
9.0	24.8			24.0	67.3			38.0	119.4		
5.0	13.8			23.0	64.5			35.0	110.0		
10.0	27.5			20.0	56.1			34.0	106.9		
2.0	5.5			18.0	50.4			36.0	113.2		
4.0	11.0			21.0	58.9			34.0	106.9		
3.0	8.3			22.0	61.7			34.0	106.9		
9.0	24.8			22.0	61.7			26.0	81.7		
11.0	30.3			22.0	61.7			34.0	106.9		
23.0	63.3			19.0	53.3			26.0	81.7		
22.0	60.5			28.0	78.5			25.0	78.6		
22.0	60.5			25.0	70.1			28.0	88.0		
18.0	49.5			24.0	67.3			24.0	75.4		
25.0	68.8			23.0	64.5			34.0	106.9		
24.0	66.0			20.0	56.1			37.0	116.3		
23.0	63.3			23.0	64.5			31.0	97.4		
22.0	60.5			23.0	64.5			36.0	113.2		
17.0	46.8			25.0	70.1			34.0	106.9		
15.3	42.0	Average		21.3	59.6	Average		31.7	99.5	Average	

Snow Course Survey Raw Data – Exposed Lowland Plots

Location EL-05-01				Location EL-05-02				Location EL-04-03			
Date: 12-May-05				Date: 09-May-05				Date: 09-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
53.5	2.6	1.98	0.209	19.8	2.1	1.87	0.210	11.6	1.99	1.87	0.187
52.9	2.68	1.98	0.239	26.3	2.22	1.87	0.240	11.2	2.00	1.87	0.209
42.3	2.62	1.98	0.273	18.9	2.08	1.87	0.200	8.6	1.98	1.87	0.231
Average:			0.240	Average:			0.217	Average:			0.209
Depth	Snow Water Equivalent			Depth	Snow Water Equivalent			Depth	Snow Water Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
64.0	153.8			33.0	71.5			5.0	10.4		
46.0	110.5			31.0	67.2			11.0	23.0		
60.0	144.2			25.0	54.2			9.0	18.8		
62.0	149.0			34.0	73.7			7.0	14.6		
49.0	117.7			31.0	67.2			8.0	16.7		
60.0	144.2			35.0	75.9			7.0	14.6		
44.0	105.7			19.0	41.2			13.0	27.2		
54.0	129.8			23.0	49.9			3.0	6.3		
50.0	120.2			21.0	45.5			2.0	4.2		
63.0	151.4			28.0	60.7			15.0	31.3		
65.0	156.2			30.0	65.0			9.0	18.8		
60.0	144.2			27.0	58.5			8.0	16.7		
56.0	134.6			20.0	43.3			7.0	14.6		
47.0	112.9			23.0	49.9			11.0	23.0		
74.0	177.8			20.0	43.3			17.0	35.5		
77.0	185.0			22.0	47.7			12.0	25.1		
49.0	117.7			27.0	58.5			10.0	20.9		
63.0	151.4			21.0	45.5			7.0	14.6		
42.0	100.9			29.0	62.9			11.0	23.0		
50.0	120.2			28.0	60.7			15.0	31.3		
44.0	105.7			33.0	71.5			11.0	23.0		
43.0	103.3			30.0	65.0			9.0	18.8		
43.0	103.3			23.0	49.9			11.0	23.0		
38.0	91.3			32.0	69.4			13.0	27.2		
62.0	149.0			10.0	21.7			8.0	16.7		
67.0	161.0			20.0	43.3			11.0	23.0		
51.0	122.6			25.0	54.2			10.0	20.9		
57.0	137.0			8.0	17.3			8.0	16.7		
38.0	91.3			19.0	41.2			13.0	27.2		
41.0	98.5			10.0	21.7			11.0	23.0		
54.0	129.7	Average		24.6	53.2	Average		9.7	20.3	Average	

Snow Course Survey Raw Data – Sheltered Lowland Plots

Location SL-05-01				Location SL-05-02				Location SL-05-03			
Date: 12-May-05				Date: 09-May-05				Date: 09-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
39.8	2.64	1.98	0.299	27.6	2.16	1.87	0.190	34.8	2.34	1.87	0.244
46.5	2.54	1.98	0.217	32.1	2.36	1.87	0.275	22.1	2.28	1.87	0.335
47.4	2.56	1.98	0.221	36	2.34	1.87	0.236	24.6	2.2	1.87	0.242
Average:			0.246	Average:			0.234	Average:			0.274
Depth	Snow Water Equivalent			Depth	Snow Water Equivalent			Depth	Snow Water Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
48.0	118.0			27.0	63.1			30.0	82.1		
43.0	105.7			33.0	77.1			35.0	95.7		
46.0	113.1			26.0	60.7			27.0	73.8		
34.0	83.6			39.0	91.1			36.0	98.5		
42.0	103.2			15.0	35.0			26.0	71.1		
39.0	95.9			12.0	28.0			28.0	76.6		
33.0	81.1			22.0	51.4			11.0	30.1		
44.0	108.1			33.0	77.1			8.0	21.9		
41.0	100.8			37.0	86.4			21.0	57.4		
39.0	95.9			38.0	88.7			7.0	19.1		
43.0	105.7			38.0	88.7			19.0	52.0		
30.0	73.7			41.0	95.8			23.0	62.9		
40.0	98.3			37.0	86.4			19.0	52.0		
33.0	81.1			26.0	60.7			17.0	46.5		
50.0	122.9			36.0	84.1			16.0	43.8		
45.0	110.6			35.0	81.7			31.0	84.8		
46.0	113.1			51.0	119.1			31.0	84.8		
42.0	103.2			29.0	67.7			24.0	65.6		
54.0	132.7			29.0	67.7			24.0	65.6		
54.0	132.7			32.0	74.7			36.0	98.5		
46.0	113.1			23.0	53.7			28.0	76.6		
47.0	115.5			46.0	107.4			39.0	106.7		
55.0	135.2			47.0	109.8			26.0	71.1		
47.0	115.5			31.0	72.4			31.0	84.8		
49.0	120.4			35.0	81.7			23.0	62.9		
66.0	162.2			34.0	79.4			26.0	71.1		
72.0	177.0			43.0	100.4			14.0	38.3		
43.0	105.7			25.0	58.4			12.0	32.8		
48.0	118.0			32.0	74.7			20.0	54.7		
50.0	122.9			36.0	84.1			11.0	30.1		
45.6	112.2	Average		32.9	76.9	Average		23.3	63.7	Average	

Snow Course Survey Raw Data – North Aspect Plots

Location NA-05-01				Location NA-05-02				Location NA-05-03			
Date: 12-May-05				Date: 12-May-05				Date: 09-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]	(kg)	(kg)	[g/cm ³]	[cm]			[g/cm ³]	[cm]	(kg)	(kg)	[g/cm ³]
27.3	2.1	1.98	0.079	8.4	2.02	1.98	0.086	34.3	2.28	1.87	0.216
25.9	2.22	1.98	0.167	28.8	2.06	1.98	0.050	51.5	2.58	1.87	0.249
27.3	2.18	1.98	0.132	7.5	1.99	1.98	0.024	29.6	2.26	1.87	0.238
Average:			0.126	Average:			0.053	Average:			0.234
Depth	Snow Water Equivalent			Depth	Snow Water Equivalent			Depth	Snow Water Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
21.0	26.5			17.0	9.1			15.0	35.1		
22.0	27.8			7.0	3.7			29.0	67.9		
18.0	22.7			18.0	9.6			24.0	56.2		
41.0	51.8			11.0	5.9			42.0	98.3		
35.0	44.2			11.0	5.9			36.0	84.3		
19.0	24.0			14.0	7.5			44.0	103.0		
25.0	31.6			8.3	4.4			43.0	100.7		
22.0	27.8			12.0	6.4			43.0	100.7		
35.0	44.2			22.0	11.7			33.0	77.2		
26.0	32.8			18.0	9.6			46.0	107.7		
21.0	26.5			16.0	8.5			25.0	58.5		
33.0	41.7			11.0	5.9			34.0	79.6		
13.0	16.4			21.0	11.2			32.0	74.9		
23.0	29.0			12.0	6.4			27.0	63.2		
30.0	37.9			19.0	10.1			28.0	65.5		
30.0	37.9			23.0	12.3			12.0	28.1		
36.0	45.4			12.0	6.4			10.0	23.4		
28.0	35.3			5.0	2.7			12.0	28.1		
29.0	36.6			14.0	7.5			9.0	21.1		
25.0	31.6			18.0	9.6			16.0	37.5		
35.0	44.2			8.0	4.3			20.0	46.8		
28.0	35.3			18.0	9.6			13.0	30.4		
25.0	31.6			15.0	8.0			19.0	44.5		
33.0	41.7			25.0	13.3			24.0	56.2		
20.0	25.2			9.0	4.8			31.0	72.6		
32.0	40.4			5.0	2.7			21.0	49.2		
34.0	42.9			13.0	6.9			17.0	39.8		
25.0	31.6			10.0	5.3			50.0	117.0		
31.0	39.1			10.0	5.3			46.0	107.7		
15.0	18.9			26.0	13.9			51.0	119.4		
27.0	34.1	Average		13.0	7.6	Average		28.4	66.5	Average	

Snow Course Survey Raw Data – East Aspect Plots

Location EA-05-01				Location EA-05-02				Location EA-04-3			
Date: 12-May-05				Date: 12-May-05				Date: 09-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
23.4	2.26	1.98	0.216	23.9	2.18	1.98	0.151	24.5	2.16	1.87	0.214
51.6	2.58	1.98	0.210	24.5	2.16	1.98	0.133	22.7	2.26	1.87	0.310
23.0	2.22	1.98	0.188	31.3	2.30	1.98	0.184	27.5	2.18	1.87	0.203
Average:			0.205	Average:			0.156	Average:			0.242
Depth	Snow Water Equivalent			Depth	Snow Water Equivalent			Depth	Snow Water Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
26.0	53.2			19.0	29.6			12.0	29.1		
29.0	59.4			25.0	39.0			21.0	50.9		
42.0	86.0			39.0	60.8			19.0	46.0		
35.0	71.6			20.0	31.2			21.0	50.9		
37.0	75.7			32.0	49.9			20.0	48.5		
44.0	90.1			39.0	60.8			16.0	38.8		
30.0	61.4			26.0	40.6			12.0	29.1		
38.0	77.8			33.0	51.5			18.0	43.6		
32.0	65.5			30.0	46.8			11.0	26.7		
34.0	69.6			36.0	56.2			12.0	29.1		
30.0	61.4			39.0	60.8			15.0	36.4		
25.0	51.2			41.0	64.0			22.0	53.3		
28.0	57.3			35.0	54.6			23.0	55.7		
41.0	83.9			25.0	39.0			12.0	29.1		
43.0	88.0			33.0	51.5			13.0	31.5		
46.0	94.2			23.0	35.9			20.0	48.5		
47.0	96.2			20.0	31.2			9.0	21.8		
49.0	100.3			22.0	34.3			18.0	43.6		
39.0	79.8			18.0	28.1			12.0	29.1		
49.0	100.3			33.0	51.5			9.0	21.8		
44.0	90.1			25.0	39.0			20.0	48.5		
36.0	73.7			27.0	42.1			16.0	38.8		
47.0	96.2			32.0	49.9			13.0	31.5		
43.0	88.0			27.0	42.1			18.0	43.6		
46.0	94.2			23.0	35.9			17.0	41.2		
49.0	100.3			19.0	29.6			26.0	63.0		
34.0	69.6			29.0	45.2			16.0	38.8		
39.0	79.8			23.0	35.9			20.0	48.5		
35.0	71.6			25.0	39.0			13.0	31.5		
23.0	47.1			33.0	51.5			15.0	36.4		
38.0	77.8	Average		28.4	44.3	Average		16.3	39.5	Average	

Snow Course Survey Raw Data – South Aspect Plots

Location SA-05-01				Location SA-05-02				Location SA-05-03				Location SA-05-04			
Date: 12-May-05				Date: 09-May-05				Date: 09-May-05				Date: 09-May-05			
Density				Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
44.3	2.58	1.98	0.244	32.6	2.34	1.87	0.260	27.3	2.16	1.87	0.192	52.3	2.7	1.87	0.286
46.4	2.56	1.98	0.226	32.1	2.32	1.87	0.253	31.4	2.26	1.87	0.224	41.6	2.52	1.87	0.282
22.4	2.16	1.98	0.145	34.1	2.30	1.87	0.228	15.2	2.08	1.87	0.249	58.7	2.99	1.87	0.344
Average:			0.205	Average:			0.247	Average:			0.222	Average:			0.304
Depth	Snow Water Equiv			Depth	Snow Water Equiv			Depth	Snow Water Equiv			Depth	Snow Water Equiv		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
31.0	63.5			27.0	66.7			36.0	79.8			23.0	70.0		
31.0	63.5			26.0	64.2			42.0	93.1			44.0	133.9		
26.0	53.3			27.0	66.7			30.0	66.5			34.0	103.4		
38.0	77.9			19.0	46.9			33.0	73.2			45.0	136.9		
36.0	73.8			35.0	86.4			14.0	31.0			33.0	100.4		
36.0	73.8			19.0	46.9			13.0	28.8			20.0	60.8		
41.0	84.0			22.0	54.3			42.0	93.1			17.0	51.7		
43.0	88.1			24.0	59.3			28.0	62.1			41.0	124.7		
42.0	86.1			32.0	79.0			34.0	75.4			49.0	149.1		
32.0	65.6			26.0	64.2			14.0	31.0			60.0	182.5		
33.0	67.6			28.0	69.1			22.0	48.8			39.0	118.6		
32.0	65.6			27.0	66.7			32.0	70.9			45.0	136.9		
36.0	73.8			26.0	64.2			31.0	68.7			41.0	124.7		
34.0	69.7			22.0	54.3			41.0	90.9			37.0	112.6		
37.0	75.8			28.0	69.1			32.0	70.9			29.0	88.2		
39.0	79.9			22.0	54.3			39.0	86.5			45.0	136.9		
26.0	53.3			20.0	49.4			34.0	75.4			66.0	200.8		
28.0	57.4			23.0	56.8			35.0	77.6			67.0	203.8		
35.0	71.7			18.0	44.4			22.0	48.8			75.0	228.2		
23.0	47.1			18.0	44.4			23.0	51.0			26.0	79.1		
33.0	67.6			22.0	54.3			29.0	64.3			19.0	57.8		
36.0	73.8			23.0	56.8			29.0	64.3			43.0	130.8		
37.0	75.8			19.0	46.9			24.0	53.2			52.0	158.2		
35.0	71.7			19.0	46.9			29.0	64.3			24.0	73.0		
46.0	94.3			26.0	64.2			26.0	57.6			57.0	173.4		
33.0	67.6			34.0	83.9			28.0	62.1			39.0	118.6		
44.0	90.2			37.0	91.3			21.0	46.6			46.0	139.9		
46.0	94.3			35.0	86.4			13.0	28.8			56.0	170.4		
37.0	75.8			30.0	74.1			31.0	68.7			42.0	127.8		
33.0	67.6			39.0	96.3			38.0	84.2			40.0	121.7		
35.3	72.4	Average		25.8	63.6	Average		28.8	63.9	Average		41.8	127.2	Average	

Snow Course Survey Raw Data – West Aspect Plots

Location WA-05-01				Location WA-05-2				Location WA-05-3			
Date: 12-May-05				Date: 09-May-05				Date: 09-May-05			
Density				Density				Density			
Depth	Weight	Tare	Density	Depth	Weight	Tare	Density	Depth	Weight	Tare	Density
[cm]			[g/cm ³]	[cm]			[g/cm ³]	[cm]			[g/cm ³]
31.9	2.26	1.98	0.158	24.7	2.28	1.87	0.300	27.1	2.18	1.87	0.206
39.9	2.49	1.98	0.231	25.6	2.24	1.87	0.261	28.8	2.10	1.87	0.144
27	2.22	1.98	0.160	36.9	2.40	1.87	0.259	38.0	2.39	1.87	0.247
Average:			0.183	Average:			0.273	Average:			0.199
	Snow				Snow				Snow		
	Water				Water				Water		
Depth	Equivalent			Depth	Equivalent			Depth	Equivalent		
[cm]	[mm]			[cm]	[mm]			[cm]	[mm]		
42.0	76.9			40.0	109.3			41.0	81.7		
37.0	67.8			42.0	114.7			27.0	53.8		
43.0	78.8			36.0	98.3			26.0	51.8		
25.0	45.8			52.0	142.0			23.0	45.8		
25.0	45.8			45.0	122.9			21.0	41.8		
28.0	51.3			46.0	125.7			28.0	55.8		
32.0	58.6			37.0	101.1			38.0	75.7		
39.0	71.4			38.0	103.8			39.0	77.7		
20.0	36.6			37.0	101.1			32.0	63.7		
26.0	47.6			25.0	68.3			32.0	63.7		
32.0	58.6			43.0	117.5			29.0	57.8		
39.0	71.4			45.0	122.9			25.0	49.8		
40.0	73.3			34.0	92.9			21.0	41.8		
26.0	47.6			43.0	117.5			27.0	53.8		
18.0	33.0			32.0	87.4			27.0	53.8		
28.0	51.3			37.0	101.1			32.0	63.7		
26.0	47.6			37.0	101.1			18.0	35.8		
27.0	49.4			47.0	128.4			22.0	43.8		
21.0	38.5			46.0	125.7			33.0	65.7		
22.0	40.3			36.0	98.3			30.0	59.7		
28.0	51.3			37.0	101.1			9.0	17.9		
33.0	60.4			28.0	76.5			31.0	61.7		
39.0	71.4			27.0	73.8			8.0	15.9		
28.0	51.3			26.0	71.0			37.0	73.7		
26.0	47.6			19.0	51.9			34.0	67.7		
35.0	64.1			19.0	51.9			34.0	67.7		
10.0	18.3			32.0	87.4			38.0	75.7		
24.0	44.0			25.0	68.3			25.0	49.8		
26.0	47.6			19.0	51.9			23.0	45.8		
27.0	49.4			20.0	54.6			15.0	29.9		
29.1	53.2	Average		35.0	95.6	Average		27.5	54.8	Average	

DORIS AND TAIL LAKE EVAPORATION CALCULATIONS

The following pages contain the results of evaporation calculations for the Doris Lake watershed. The WREVAP model (Morton et al. 1985) was used for these calculations.

The WREVAP model requires at least two years of data to run and was run on a full year basis. The meteorological station at Doris Lake was installed in July 2003 and data were available through to September 19, 2005. A data gap exists in the winter (November to February) of 2003-2004, however, continuous data are available for the period February 24, 2004 to September 19, 2005. Therefore, it was necessary to estimate input parameters for the missing winter period. The results are insensitive to changes in relevant input parameters (relative humidity, air temperature and solar radiation) for the winter months, relative to the summer months, because evaporation in the region is essentially zero for this period. A summary of input data is provided in the following table.

Doris Lake Watershed Input Data to the WREVAP Program

	Mean Monthly Parameter Values		
Month	Relative Humidity (%)	Air Temperature (°C)	Total Solar Radiation (MJ/m ²)
Jul-03	70.1	11.3	18.01
Aug-03	72.7	8.2	10.29
Sep-03	80.5	3.7	6.04
Oct-03	89.4	-5.2	1.90
Nov-03	78.7 **	-21.5 *	0.00 estimated
Dec-03	72.3 **	-27.6 *	0.00 estimated
Jan-04	69.0 estimated	-31.6 *	0.00 estimated
Feb-04	69.0 estimated	-31.0 *	0.00 estimated
Mar-04	69.2	-30.3	6.89
Apr-04	77.7	-20.4	14.80
May-04	82.6	-10.8	20.43
Jun-04	78.7	3.8	18.69
Jul-04	72.8	8.8	17.62
Aug-04	76.7	7.1	9.29
Sep-04	82.6	1.6	4.70
Oct-04	87.0	-10.7	2.21
Nov-04	80.6	-21.9	0.42
Dec-04	73.9	-29.8	0.00
Jan-05	74.3	-28.3	0.22
Feb-05	70.3	-32.5	0.19
Mar-05	73.2	-27.9	6.78
Apr-05	81.3	-14.4	13.40
May-05	80.1	-8.0	21.47
Jun-05	75.7	4.1	20.25
Jul-05	80.1	8.0	13.94
Aug-05	78.3	9.1	11.51
Latitude		68.13°	
Elevation		40 m	
Mean Annual Precipitation		213 mm	
Mean Lake Depth		3.0 m (Tail Lake)	7.4 m (Doris Lake)
Lake Salinity		66 ppm (Tail Lake)	112.5 ppm (Doris Lake)

* Data from Boston Camp

** 1971-2000 Climate Normals for Cambridge Bay Airport

As noted in the body of this report, these results should be treated as estimates and are likely larger than the actual values.

Doris Lake Evaporation Calculation Results from Program WREVAP-CRLE

Year	Month	Length (days)	Relative Humidity (-)	Air Temperature (°C)	Global Incident Radiation (MJ/m ² /day)	Waterborne Energy Input (W/m ²)	Net Radiation at Surface (mm)	Evaporation Potential (mm)	Lake (mm)
2003	JULY	31	0.7	11.3	18.0	0.00	58	83	54
2003	AUG	31	0.7	8.2	10.3	0.00	117	98	83
2003	SEPT	30	0.8	3.7	6.0	0.00	99	65	63
2003	OCT	31	0.9	-5.2	1.9	0.00	67	41	41
2003	NOV	30	0.8	-21.5	0.0	0.00	23	17	17
2003	DEC	31	0.7	-27.6	0.0	0.00	-11	1	1
2004	JAN	31	0.7	-31.6	0.0	0.00	-22	0	0
2004	FEB	29	0.7	-31.0	0.0	0.00	-25	0	0
2004	MAR	31	0.7	-30.3	6.9	0.00	-46	0	0
2004	APR	30	0.8	-20.4	14.8	0.00	-47	-2	-2
2004	MAY	31	0.8	-10.8	20.4	0.00	-35	-2	-2
2004	JUN	30	0.8	3.8	18.7	0.00	-5	13	13
2004	JULY	31	0.7	8.8	17.6	0.00	58	72	51
2004	AUG	31	0.8	7.1	9.3	0.00	126	93	85
Total September 2003 to August 2004								298	267
2004	SEPT	30	0.8	1.6	4.7	0.00	111	66	66
2004	OCT	31	0.9	-10.7	2.2	0.00	56	31	31
2004	NOV	30	0.8	-21.9	0.4	0.00	-12	1	1
2004	DEC	31	0.7	-29.8	0.0	0.00	-12	1	1
2005	JAN	31	0.7	-28.3	0.2	0.00	-24	0	0
2005	FEB	28	0.7	-32.5	0.2	0.00	-24	0	0
2005	MAR	31	0.7	-27.9	6.8	0.00	-47	-1	-1
2005	APR	30	0.8	-14.4	13.4	0.00	-49	-3	-3
2005	MAY	31	0.8	-8.0	21.5	0.00	-38	-2	-2
2005	JUN	30	0.8	4.1	20.3	0.00	5	21	19
2005	JULY	31	0.8	8.0	13.9	0.00	94	75	68
2005	AUG	31	0.8	9.1	11.5	0.00	113	90	81
Total September 2004 to August 2005								279	261

Tail Lake Evaporation Calculation Results from Program WREVAP-CRLE

Year	Month	Length (days)	Relative Humidity (-)	Air Temperature (°C)	Global Incident Radiation (MJ/m ² /day)	Waterborne Energy Input (W/m ²)	Net Radiation at Surface (mm)	Evaporation Potential (mm)	Lake (mm)
2003	JULY	31	0.7	11.3	18.0	0.00	121	115	92
2003	AUG	31	0.7	8.2	10.3	0.00	111	95	79
2003	SEPT	30	0.8	3.7	6.0	0.00	46	43	37
2003	OCT	31	0.9	-5.2	1.9	0.00	5	7	7
2003	NOV	30	0.8	-21.5	0.0	0.00	-20	0	0
2003	DEC	31	0.7	-27.6	0.0	0.00	-30	0	0
2004	JAN	31	0.7	-31.6	0.0	0.00	-28	0	0
2004	FEB	29	0.7	-31.0	0.0	0.00	-27	0	0
2004	MAR	31	0.7	-30.3	6.9	0.00	-41	0	0
2004	APR	30	0.8	-20.4	14.8	0.00	-28	0	0
2004	MAY	31	0.8	-10.8	20.4	0.00	-1	4	4
2004	JUN	30	0.8	3.8	18.7	0.00	63	53	45
2004	JULY	31	0.7	8.8	17.6	0.00	121	102	86
2004	AUG	31	0.8	7.1	9.3	0.00	116	88	79
Total September 2003 to August 2004								296	258
2004	SEPT	30	0.8	1.6	4.7	0.00	53	39	38
2004	OCT	31	0.9	-10.7	2.2	0.00	-4	3	3
2004	NOV	30	0.8	-21.9	0.4	0.00	-48	-2	-2
2004	DEC	31	0.7	-29.8	0.0	0.00	-28	0	0
2005	JAN	31	0.7	-28.3	0.2	0.00	-29	0	0
2005	FEB	28	0.7	-32.5	0.2	0.00	-25	0	0
2005	MAR	31	0.7	-27.9	6.8	0.00	-42	0	0
2005	APR	30	0.8	-14.4	13.4	0.00	-30	-1	-1
2005	MAY	31	0.8	-8.0	21.5	0.00	7	10	10
2005	JUN	30	0.8	4.1	20.3	0.00	84	65	56
2005	JULY	31	0.8	8.0	13.9	0.00	135	95	92
2005	AUG	31	0.8	9.1	11.5	0.00	92	80	69
Total September 2004 to August 2005								289	265

APPENDIX B
PHYSICAL LIMNOLOGY AND WATER QUALITY DATA

Appendix B1. Dissolved oxygen (DO) concentrations, water temperature and Secchi transparency in Doris North Project lakes, June-September 2005.

Doris Lake (13W 0433799E 7558286N NAD27)								
19-Jul-2005 10:00 AM Secchi = 1.8 m Total Depth = 14.8 m			20-Aug-2005 3:00 PM Total Depth = 15.1 m			15-Sep-2005 11:00 AM Total Depth = 15 m		
Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)
0.0	13.2	5.4	0.1	12.3	12.2	0.1	11.7	6.7
1.0	13.3	5.7	1.0	12.3	12.1	1.0	11.6	6.7
2.0	12.8	5.8	2.0	12.3	12.1	2.0	11.6	6.8
3.0	13.0	5.8	3.0	12.3	12.0	3.0	11.6	6.8
4.0	13.0	5.9	4.0	12.4	12.0	4.0	11.6	6.8
5.0	12.9	5.9	5.0	12.3	11.9	5.0	11.6	6.8
6.0	12.7	6.0	6.0	12.3	11.8	6.0	11.6	6.8
7.0	12.6	6.0	7.0	12.3	11.8	7.0	11.6	6.8
8.0	13.4	6.0	8.0	12.3	11.8	8.0	11.6	6.8
9.0	12.2	6.1	9.0	12.3	11.7	9.0	11.6	6.8
10.0	12.6	6.1	10.0	12.3	11.7	10.0	11.6	6.8
11.0	12.9	6.1	11.0	12.3	11.7	11.0	11.6	6.8
12.0	12.9	6.1	12.0	12.3	11.6	12.0	11.6	6.8
13.0	13.3	6.1	13.0	12.1	11.5	13.0	11.6	6.8
14.0	13.3	6.1	14.0	11.4	10.8	14.0	11.5	6.8
14.8	13.1	6.1						

Tail Lake (13W 0434987E 7557952N NAD27)								
20-Jul-2005 10:00 AM Secchi = 4.0 m Total Depth = 6.0 m			21-Aug-2005 3:10 PM Total Depth = 6.2 m			16-Sep-2005 12:30 PM Secchi = 3.0 m Total Depth = 6.2 m		
Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)
0.0	11.5	8.6	0.1	11.1	12.6	0.1	12.4	3.8
0.5	11.3	8.8	0.5	11.2	12.5	0.5	12.4	3.8
1.0	11.4	8.9	1.0	11.1	12.5	1.0	12.4	3.8
1.5	11.2	9.2	1.5	11.1	12.5	1.5	12.2	3.8
2.0	11.2	9.2	2.0	11.1	12.5	2.0	12.3	3.8
2.5	11.2	9.2	2.5	11.1	12.5	2.5	12.2	3.8
3.0	11.2	9.2	3.0	11.1	12.4	3.0	12.2	3.8
3.5	11.2	9.2	3.5	11.1	12.4	3.5	12.2	3.8
4.0	11.2	9.2	4.0	11.1	12.3	4.0	12.3	3.8
4.5	11.3	9.2	4.5	11.1	12.3	4.5	12.2	3.8
5.0	11.2	9.2	5.0	11.1	12.3	5.0	12.3	3.8
5.5	11.6	9.2	5.5	11.1	12.2	5.5	12.3	3.8
6.0	10.2	9.2	6.0	11.2	12.2	6.0	12.4	3.8

Appendix B1. Dissolved oxygen (DO) concentrations, water temperature and Secchi transparency in Doris North Project lakes, June-September 2005.

Roberts Lake (13W 0435587E 7562161N NAD 27)								
20-Jul-2005^a 3:30 PM Secchi = 1.2 m Total Depth = 4.5 m			16-Aug-2005 12:30 PM Secchi = 2.5 m Total Depth = 7.2 m			13-Sep-2005 1:20 PM Secchi = 1.9 m Total Depth = 7.0 m		
Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)
0.0	12.2	6.8	0.1	11.8	8.9	0.1	12.0	4.9
0.5	12.3	6.8	0.5	11.8	8.8	0.5	11.9	5.0
1.0	12.3	6.8	1.0	11.8	8.8	1.0	11.9	5.0
1.5	12.3	6.8	1.5	11.8	8.8	1.5	11.9	5.0
2.0	12.3	6.8	2.0	11.8	8.8	2.0	11.9	5.0
2.5	12.3	6.8	2.5	11.8	8.8	2.5	11.9	5.0
3.0	12.4	6.8	3.0	11.8	8.8	3.0	11.9	5.1
3.5	12.3	6.8	3.5	11.7	8.8	3.5	11.9	5.1
4.0	12.5	6.8	4.0	11.7	8.8	4.0	11.9	5.1
4.5	11.2	6.8	4.5	11.7	8.8	4.5	11.9	5.1
			5.0	11.7	8.8	5.0	11.9	5.0
			5.5	11.7	8.7	5.5	12.0	5.0
			6.0	11.8	8.7	6.0	11.9	5.0
			6.5	11.8	8.7	6.5	11.9	5.0
			7.0	9.8	8.7			

^a Due to high winds causing waves, water quality was sampled at 13W 0435638E 7561934N NAD 27)

Little Roberts Lake (13W 434723E 7562724N NAD27)								
21-Jul-2005 1:40 PM Secchi = 1.9 m Total Depth = 4.1 m			19-Aug-2005 2:00 PM Secchi = 2.3 m Total Depth = 3.8 m			14-Sep-2005 2:25 PM Secchi = 2.2 m Total Depth = 3.4 m		
Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)
0.0	12.2	6.2	0.1	11.9	11.7	0.1	12.6	3.2
0.5	12.1	6.3	0.5	12.0	11.7	0.5	12.7	3.2
1.0	12.2	6.4	1.0	11.9	11.7	1.0	12.6	3.2
1.5	12.2	6.4	1.5	12.0	11.6	1.5	12.5	3.2
2.0	12.2	6.5	2.0	12.0	11.6	2.0	12.6	3.2
2.5	12.2	6.5	2.5	12.0	11.4	2.5	12.6	3.2
3.0	12.1	6.5	3.0	11.9	11.3	3.0	12.6	3.2
3.5	12.2	6.6	3.5	11.9	11.2			
4.0	12.1	6.6						
4.1	11.5	6.6						

Appendix B1. Dissolved oxygen (DO) concentrations, water temperature and Secchi transparency in Doris North Project lakes, June-September 2005.

Roberts Bay (13W 433290E 7564019N NAD27)								
21-Jul-2005 12:00 PM Secchi = 0.75 m Total Depth = 3.5 m			18-Aug-2005 4:00 PM Secchi = 5.4 m Total Depth = 5.4 m			14-Sep-2005 10:00 AM Secchi = 3.2 m Total Depth = 5.1 m		
Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)	Depth (m)	DO (mg/L)	Temp (°C)
0.0	11.8	4.9	0.0	11.9	12.2	0.1	12.7	3.0
0.5	11.7	4.9	0.5	12.0	10.8	0.5	12.3	3.8
1.0	11.7	4.9	1.0	12.0	10.8	1.0	12.3	3.9
1.5	11.7	4.5	1.5	12.0	10.6	1.5	12.2	4.2
2.0	12.1	3.9	2.0	12.1	10.5	2.0	12.2	4.3
2.5	12.1	3.8	2.5	12.1	10.2	2.5	12.1	4.4
3.0	12.1	3.7	3.0	11.9	9.4	3.0	12.1	4.5
3.5	11.0	3.9	3.5	12.2	9.3	3.5	11.9	4.6
			4.0	12.2	9.2	4.0	12.0	4.6
			4.5	12.2	9.2	4.5	11.9	4.6
			5.0	12.4	9.2	5.0	11.9	4.6

Tailings Alternate Site 2 (13W 434221E 756176N NAD27)			
		18-Aug-2005 1:10 PM Secchi = 2.8 m Total Depth = 4.4 m	
		Depth (m)	DO (mg/L)
		Temp (°C)	
		0.1	11.0
		1.0	11.2
		2.0	11.1
		3.0	11.1
		4.0	11.1
		4.4	11.0

Appendix B2. Water Quality Data

Doris Outflow

Parameter	Unit	MRV	MDL	CWQG	27-Jun-05	18-Jul-05	5-Aug-05	20-Aug-05	1-Sep-05	15-Sep-05
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	145	61.7	53.6	774	48.2	31.2
Antimony (Sb)	µg/L	0.0005	0.001		0.0110	0.0119	0.0145	0.0128	0.0170	0.0137
Arsenic (As)	µg/L	0.002	0.04	5	0.336	0.405	0.328	0.473	0.420	0.283
Barium (Ba)	µg/L	0.004	0.1		4.30	3.46	3.18	11.1	3.03	2.84
Beryllium (Be)	µg/L	0.003	0.01		0.0045	0.0036	<0.003	0.0199	<0.003	0.0049
Bismuth (Bi)	µg/L	0.001	0.01		<0.001	0.0111	0.0029	0.0064	0.0014	0.0016
Boron (B)	µg/L	0.05	0.8		18.6	22.7	22.6	21.7	22.4	18.9
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	0.0023	0.0051	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.73	7.28	7.02	7.49	7.35	7.18
Chromium (Cr)	µg/L	0.03	0.3		0.344	0.152	0.198	1.41	1.26	0.173
Cobalt (Co)	µg/L	0.001	0.01		0.0568	0.0325	0.0406	0.352	0.0449	0.0345
Copper (Cu)	µg/L	0.05	0.1	2	1.22	1.10	1.35	2.06	1.40	1.39
Iron (Fe)	µg/L	2	4	300	202	163	75.0	888	69.9	57.7
Lead (Pb)	µg/L	0.001	0.006	1	0.183	0.202	0.124	0.268	0.0231	0.0214
Magnesium (Mg)	mg/L	0.0001	0.0005		4.44	6.47	6.25	6.87	5.97	5.21
Manganese (Mn)	µg/L	0.003	0.03		13.1	20.0	9.82	39.5	9.53	8.88
Mercury (Hg)	ng/L	0.6	1.2	100	0.9	<0.6	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.115	0.244	0.192	0.140	0.128	0.129
Nickel (Ni)	µg/L	0.005	0.06	25	0.568	0.597	0.567	0.969	0.448	0.487
Potassium (K)	µg/L	2	5		2070	2350	2240	2570	2290	2150
Selenium (Se)	µg/L	0.1	0.3	1	0.546	0.952	0.458	0.838	1.12	0.484
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	<0.0005	0.0024	0.0031	<0.0005	0.0016
Sodium (Na)	µg/L	2	6		22500	32300	31300	33600	29100	27800
Strontium (Sr)	µg/L	0.004	0.008		33.2	38.9	39.1	41.5	40.2	38.8
Thallium (Tl)	µg/L	0.0003	0.003		0.124	<0.0003	0.0005	0.0105	0.0010	0.0027
Tin (Sn)	µg/L	0.03	0.07		<0.03	0.0312	<0.03	0.0739	<0.03	0.0615
Uranium (U)	µg/L	0.0001	0.003		0.0378	0.0325	0.0325	0.0625	0.0354	0.0305
Vanadium (V)	µg/L	0.005	0.05		0.703	0.794	0.528	1.56	0.494	0.093
Zinc (Zn)	µg/L	0.1	0.2	30	0.929	0.609	10.9	4.12	2.10	1.93
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		22.2	5.37	4.37	7.94	2.02	1.75
Antimony (Sb)	µg/L	0.0005	0.001		0.0106	0.0115	0.0114	0.0124	0.0114	0.0132
Arsenic (As)	µg/L	0.002	0.04		0.273	0.369	0.287	0.389	0.370	0.237
Barium (Ba)	µg/L	0.004	0.1		2.44	2.53	2.41	2.66	2.24	2.10
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		16.1	22.2	21.0	20.9	19.5	17.0
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.39	7.08	6.78	7.31	6.57	6.48
Chromium (Cr)	µg/L	0.03	0.3		0.151	0.146	0.152	0.352	1.07	0.112
Cobalt (Co)	µg/L	0.001	0.01		0.0149	0.0086	0.0159	0.0139	0.0103	0.0105
Copper (Cu)	µg/L	0.05	0.1		1.19	1.10	1.32	1.54	1.14	1.06
Iron (Fe)	µg/L	2	4		44.3	34.6	11.5	7.82	<2	<2
Lead (Pb)	µg/L	0.001	0.006		0.118	0.193	0.124	0.0180	0.0040	0.0052
Magnesium (Mg)	mg/L	0.0001	0.0005		3.97	6.20	5.88	6.75	5.46	4.83
Manganese (Mn)	µg/L	0.003	0.03		0.457	0.268	0.278	0.169	0.053	0.035
Molybdenum (Mo)	µg/L	0.001	0.008		0.102	0.123	0.120	0.119	0.114	0.112
Nickel (Ni)	µg/L	0.005	0.06		0.567	0.191	0.305	0.224	0.164	0.168
Potassium (K)	µg/L	2	5		1850	2250	2120	2220	2000	1910
Selenium (Se)	µg/L	0.1	0.3		0.545	0.736	0.458	0.835	0.924	0.313
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		20100	31200	29500	33600	25500	25500
Strontium (Sr)	µg/L	0.004	0.008		30.8	37.4	38.9	38.7	39.8	34.9
Uranium (U)	µg/L	0.0001	0.003		0.0253	0.0221	0.0215	0.0192	0.0167	0.0223
Vanadium (V)	µg/L	0.005	0.05		0.443	0.373	0.095	0.088	0.349	0.066
Zinc (Zn)	µg/L	0.05	0.2		0.925	0.608	6.38	3.46	2.10	0.674
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.019	0.021	0.022	0.044	0.022	0.027
Ammonia-N	mg/L	0.001	0.02	5.79	0.010	0.019	0.018	0.009	0.008	0.007
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.41	0.44	0.42	0.55	0.48	0.55
Dissolved Organic Carbon	mg/L	0.2	0.6		4.7	6.0	4.8	4.7	5.4	5.9
Carbon Part	mg/L	0.02	0.2		0.67	0.59	0.55	1.02	1.07	1.70
TOC (Calculated)	mg/L	0.8			5.37	6.59	5.32	5.72	6.47	7.60
Fluoride (F)	mg/L	0.01	0.04		0.05	0.06	0.05	0.06	0.05	0.05
Sulphide	mg/L	0.001	0.004		0.001	<0.001	<0.001	<0.001	0.001	0.001
Total Suspended Solids	mg/L	1	10		3.0	2.3	2.0	25	4.0	3.0
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		50.4	61.8	61.4	61.9	61.2	62.5
Nitrate+Nitrite-N	mg/L	0.005	0.02	0.06	0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				0.0055	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		4.0	<3	4.8	<3	3.0	4.0
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	6.93	7.04	7.00	7.57	7.59	7.52
Conductivity (EC)	µS/cm	0.1	2		213	264	250	262	264	263
Bicarbonate (HCO3)	mg/L	1	5		27	33	33	33	34	34
Alkalinity, Total	mgCaCO3/L	1	4		21.9	26.8	26.7	27.3	28.0	27.8
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.95	0.94	0.96	0.97	0.92	0.93
Anions	meq/L	N/A	N/A		1.95	2.32	2.37	2.34	2.35	2.40
Cations	meq/L	N/A	N/A		1.84	2.19	2.26	2.25	2.18	2.24
TDS (Calculated)	mg/L	9			106	125	129	126	126	130
Hardness, Total	mgCaCO3/L	0.01	0.25		35.3	40.3	42.7	44.2	40.9	38.1
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		5.95	6.80	7.01	7.49	7.07	6.76
Potassium (K)	mg/L	0.1	0.1		2.0	2.2	2.2	2.3	2.2	2.3
Magnesium (Mg)	mg/L	0.0001	0.0005		4.97	5.67	6.13	6.19	5.64	5.15
Sodium (Na)	mg/L	0.5	1.5		25.0	30.6	31.1	30.2	30.0	32.6
Other										
Color, True	TCU	1	2		25	13	5	15	12	15
Cyanide, Total	mg/L	0.001	0.004		<0.001	0.001	<0.001	0.001	<0.001	<0.001
ARC Sample ID					0501924	0502246	0502443	0502640	0503039	0503208
Radium 226	Bq/L	0.005	0.005		<0.005	0.006	0.007	N/A	<0.005	<0.005
ETL Sample ID					L293440-3	L293440-6	L301588-1	-	L315200-4	L319705-11

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Tail Outflow

Parameter	Unit	MRV	MDL	CWQG	26-Jun-05	18-Jul-05	5-Aug-05	21-Aug-05	1-Sep-05	15-Sep-05
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	10.7	9.47	9.60	44.6	12.1	10.0
Antimony (Sb)	µg/L	0.0005	0.001		0.0147	0.0061	0.0087	0.0091	0.0088	0.0081
Arsenic (As)	µg/L	0.002	0.04	5	0.291	0.216	0.261	0.250	0.256	0.135
Barium (Ba)	µg/L	0.004	0.1		2.68	1.91	2.28	2.82	2.13	2.04
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	0.0048
Bismuth (Bi)	µg/L	0.001	0.01		<0.001	0.0073	0.0011	0.0014	0.0011	0.0010
Boron (B)	µg/L	0.05	0.8		22.3	15.7	13.6	14.7	13.1	11.5
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	0.0025	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		8.53	6.11	6.50	6.69	6.44	6.27
Chromium (Cr)	µg/L	0.03	0.3		0.248	0.123	<0.03	0.236	0.744	0.336
Cobalt (Co)	µg/L	0.001	0.01		0.0151	0.0070	0.0171	0.0695	0.0198	0.0231
Copper (Cu)	µg/L	0.05	0.1	2	0.920	0.505	0.770	0.798	0.756	0.792
Iron (Fe)	µg/L	2	4	300	39.5	68.2	73.2	732	51.9	72.3
Lead (Pb)	µg/L	0.001	0.006	1	0.107	0.0699	0.0089	0.0333	0.0074	0.0129
Magnesium (Mg)	mg/L	0.0001	0.0005		6.92	4.41	4.35	5.32	4.69	4.20
Manganese (Mn)	µg/L	0.003	0.03		0.901	1.01	1.12	6.28	1.34	1.96
Mercury (Hg)	ng/L	0.6	1.2	100	0.7	1.1	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.110	0.0673	0.0810	0.0906	0.117	0.0810
Nickel (Ni)	µg/L	0.005	0.06	25	0.588	0.384	0.452	0.465	0.432	0.434
Potassium (K)	µg/L	2	5		2260	1400	1430	1490	1440	1540
Selenium (Se)	µg/L	0.1	0.3	1	0.517	0.272	0.529	0.369	0.610	0.231
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	0.00055	0.0006	0.0021	<0.0005	0.0010
Sodium (Na)	µg/L	2	6		23800	16000	15100	17700	15300	14800
Strontium (Sr)	µg/L	0.004	0.008		37.1	25.2	28.0	29.3	28.2	26.5
Thallium (Tl)	µg/L	0.0003	0.003		0.127	<0.0003	0.0008	0.0011	<0.0003	0.0017
Tin (Sn)	µg/L	0.03	0.07		<0.03	<0.03	<0.03	0.0984	<0.03	<0.03
Uranium (U)	µg/L	0.0001	0.003		0.0144	0.0098	0.0096	0.0146	0.0098	0.0106
Vanadium (V)	µg/L	0.005	0.05		0.437	0.104	<0.01	0.156	0.248	0.047
Zinc (Zn)	µg/L	0.1	0.2	30	3.90	3.62	0.779	5.77	1.34	5.21
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		4.31	3.96	2.81	4.32	4.59	5.13
Antimony (Sb)	µg/L	0.0005	0.001		0.0152	0.0054	0.0087	0.0090	0.0087	0.0080
Arsenic (As)	µg/L	0.002	0.04		0.262	0.213	0.229	0.223	0.235	0.130
Barium (Ba)	µg/L	0.004	0.1		2.34	1.84	2.06	2.16	1.92	1.85
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		19.5	14.6	13.6	13.3	11.9	9.95
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		7.70	5.97	6.45	6.68	6.04	5.94
Chromium (Cr)	µg/L	0.03	0.3		0.143	0.117	<0.03	0.234	0.738	0.170
Cobalt (Co)	µg/L	0.001	0.01		0.0151	0.0059	0.0103	0.0220	0.0142	0.0179
Copper (Cu)	µg/L	0.05	0.1		0.870	0.492	0.757	0.791	0.753	0.792
Iron (Fe)	µg/L	2	4		13.2	27.0	2.90	33.4	14.5	21.9
Lead (Pb)	µg/L	0.001	0.006		0.103	0.0621	0.0088	0.0263	0.0051	0.0123
Magnesium (Mg)	mg/L	0.0001	0.0005		6.01	4.18	4.31	5.32	4.51	4.07
Manganese (Mn)	µg/L	0.003	0.03		0.284	0.460	0.140	1.25	0.597	1.57
Molybdenum (Mo)	µg/L	0.001	0.008		0.102	0.0671	0.0771	0.0720	0.0686	0.0670
Nickel (Ni)	µg/L	0.005	0.06		0.582	0.296	0.397	0.407	0.402	0.432
Potassium (K)	µg/L	2	5		2050	1380	1410	1460	1370	1480
Selenium (Se)	µg/L	0.1	0.3		0.414	0.277	0.527	0.369	0.603	0.142
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	0.0006	0.0011	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		20900	15800	15100	17700	14900	14500
Strontium (Sr)	µg/L	0.004	0.008		33.9	25.3	28.0	28.5	27.9	26.2
Uranium (U)	µg/L	0.0001	0.003		0.0119	0.0082	0.0065	0.0076	0.0079	0.0083
Vanadium (V)	µg/L	0.005	0.05		0.388	0.104	<0.01	0.092	0.240	0.047
Zinc (Zn)	µg/L	0.05	0.2		3.87	3.57	1.97	5.70	1.26	2.18
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.006	0.006	0.005	0.004	0.005	0.003
Ammonia-N	mg/L	0.001	0.02	5.79	0.006	0.008	0.004	0.007	0.008	0.009
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.33	0.25	0.23	0.24	0.24	0.23
Dissolved Organic Carbon	mg/L	0.2	0.6		6.1	4.7	5.0	4.6	5.0	5.8
Carbon Part	mg/L	0.02	0.2		0.11	0.19	0.30	0.10	0.14	0.05
TOC (Calculated)	mg/L	0.8			6.24	4.89	5.30	4.70	5.14	5.84
Fluoride (F)	mg/L	0.01	0.04		0.07	0.06	0.06	0.07	0.05	0.05
Sulphide	mg/L	0.001	0.004		0.001	0.001	<0.001	0.001	0.001	0.001
Total Suspended Solids	mg/L	1	10		<1	<1	<1	<1	<1	<1
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		43.5	28.3	31.8	34.0	35.2	35.2
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	0.010	<0.005	<0.005	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				<0.005	0.0095	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		6.0	<3	3.4	<3	<3	3.5
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	7.06	6.88	6.72	7.22	7.27	7.11
Conductivity (EC)	µS/cm	0.1	2		219	151	154	164	171	170
Bicarbonate (HCO3)	mg/L	1	5		44	31	32	33	31	31
Alkalinity, Total	mgCaCO3/L	1	4		35.9	25.8	26.6	27.4	25.4	25.2
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.95	0.99	0.90	0.94	0.92	0.92
Anions	meq/L	N/A	N/A		2.06	1.36	1.50	1.55	1.54	1.57
Cations	meq/L	N/A	N/A		1.97	1.34	1.35	1.46	1.43	1.44
TDS (Calculated)	mg/L	9			109	72.4	78.1	81.2	80.8	83.0
Hardness, Total	mgCaCO3/L	0.01	0.25		48.8	33.4	32.7	37.0	35.1	33.0
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		8.32	6.06	6.40	6.69	6.39	6.27
Potassium (K)	mg/L	0.1	0.1		2.0	1.4	1.4	1.5	1.4	1.6
Magnesium (Mg)	mg/L	0.0001	0.0005		6.80	4.43	4.06	4.93	4.65	4.21
Sodium (Na)	mg/L	0.5	1.5		21.6	14.7	15.1	15.6	15.8	17.0
Other										
Color, True	TCU	1	2		25	13	8	21	12	15
Cyanide, Total	mg/L	0.001	0.004		<0.001	<0.001	N/A	<0.001	<0.001	<0.001
ARC Sample ID					0501925	0502247	0502444	0502644	0503040	0503209
Radon 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ETL Sample ID					L293440-4	L293440-7	L301588-2	L309418-14	L315200-5	L319705-12

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Roberts Outflow

Parameter	Unit	MRV	MDL	CWQG	28-Jun-05	17-Jul-05	5-Aug-05	16-Aug-05	31-Aug-05	13-Sep-05
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	813	102	104	77.2	169	126
Antimony (Sb)	µg/L	0.0005	0.001		0.0166	0.0108	0.0147	0.0121	0.0134	0.0126
Arsenic (As)	µg/L	0.002	0.04	5	0.448	0.387	0.359	0.378	0.442	0.335
Barium (Ba)	µg/L	0.004	0.1		11.4	3.32	3.32	2.99	3.96	3.38
Beryllium (Be)	µg/L	0.003	0.01		0.0301	0.0034	0.0055	<0.003	0.0084	0.0039
Bismuth (Bi)	µg/L	0.001	0.01		0.0013	0.0046	0.0020	0.0020	0.0027	0.0105
Boron (B)	µg/L	0.05	0.8		22.9	24.2	28.0	24.0	24.1	20.9
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		4.19	5.64	5.46	5.61	5.47	5.75
Chromium (Cr)	µg/L	0.03	0.3		1.31	0.233	0.373	0.385	1.30	0.153
Cobalt (Co)	µg/L	0.001	0.01		0.233	0.0319	0.0472	0.0394	0.0574	0.0447
Copper (Cu)	µg/L	0.05	0.1		1.73	1.48	1.51	1.45	1.54	1.57
Iron (Fe)	µg/L	2	4	300	656	125	108	111	125	109
Lead (Pb)	µg/L	0.001	0.006	1	0.336	0.202	0.138	0.0308	0.0545	0.0552
Magnesium (Mg)	mg/L	0.0001	0.0005		4.81	6.03	5.92	5.83	5.55	6.92
Manganese (Mn)	µg/L	0.003	0.03		14.3	10.7	9.64	6.59	6.08	5.83
Mercury (Hg)	ng/L	0.6	1.2	100	0.9	<0.6	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.189	0.170	0.181	0.182	0.188	0.205
Nickel (Ni)	µg/L	0.005	0.06	25	1.02	0.596	0.470	0.453	0.485	0.533
Potassium (K)	µg/L	2	5		2100	2090	2110	2100	2060	2210
Selenium (Se)	µg/L	0.1	0.3	1	0.725	0.892	0.562	0.926	0.853	0.343
Silver (Ag)	µg/L	0.0005	0.005	0.1	0.0094	0.0010	0.0009	0.0005	0.0010	0.0007
Sodium (Na)	µg/L	2	6		24800	31100	30700	31400	28500	36000
Strontium (Sr)	µg/L	0.004	0.008		32.4	36.5	37.0	38.9	38.1	36.3
Thallium (Tl)	µg/L	0.0003	0.003		0.130	<0.0003	0.0008	0.0008	0.0029	0.0036
Tin (Sn)	µg/L	0.03	0.07		<0.03	<0.03	<0.03	0.0801	<0.03	<0.03
Uranium (U)	µg/L	0.0001	0.003		0.0784	0.0608	0.0460	0.0557	0.0536	0.0499
Vanadium (V)	µg/L	0.005	0.05		1.82	0.416	0.217	0.172	0.604	0.183
Zinc (Zn)	µg/L	0.1	0.2	30	4.69	0.620	4.58	0.475	1.42	1.56
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		65.0	7.66	5.88	6.64	10.9	13.1
Antimony (Sb)	µg/L	0.0005	0.001		0.0140	0.0108	0.0147	0.0114	0.0127	0.0118
Arsenic (As)	µg/L	0.002	0.04		0.312	0.328	0.292	0.316	0.372	0.302
Barium (Ba)	µg/L	0.004	0.1		2.44	2.14	2.01	1.94	2.17	2.19
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		22.9	22.8	27.3	20.5	22.3	20.5
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		3.63	5.34	5.12	5.04	5.28	5.69
Chromium (Cr)	µg/L	0.03	0.3		0.261	0.228	0.367	0.375	1.09	0.142
Cobalt (Co)	µg/L	0.001	0.01		0.0218	0.0016	0.0113	0.0106	0.0108	0.0118
Copper (Cu)	µg/L	0.05	0.1		1.55	1.45	1.47	1.45	1.34	1.45
Iron (Fe)	µg/L	2	4		67.4	18.7	11.8	12.3	7.00	6.49
Lead (Pb)	µg/L	0.001	0.006		0.147	0.197	0.120	0.0180	0.0075	0.0094
Magnesium (Mg)	mg/L	0.0001	0.0005		4.23	5.63	5.67	5.27	5.41	6.88
Manganese (Mn)	µg/L	0.003	0.03		2.21	2.49	0.809	0.083	0.031	0.641
Molybdenum (Mo)	µg/L	0.001	0.008		0.159	0.160	0.172	0.163	0.180	0.185
Nickel (Ni)	µg/L	0.005	0.06		1.02	0.503	0.395	0.353	0.374	0.343
Potassium (K)	µg/L	2	5		1610	1940	1950	1870	1920	2210
Selenium (Se)	µg/L	0.1	0.3		0.439	0.886	0.561	0.795	0.848	0.329
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		22700	29600	30000	28300	28300	36000
Strontium (Sr)	µg/L	0.004	0.008		26.2	36.7	36.8	34.6	37.6	36.1
Uranium (U)	µg/L	0.0001	0.003		0.0397	0.0280	0.0235	0.0283	0.0298	0.0306
Vanadium (V)	µg/L	0.005	0.05		0.554	0.230	0.099	0.077	0.342	0.058
Zinc (Zn)	µg/L	0.05	0.2		3.98	0.440	4.54	0.468	1.35	1.53
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.026	0.013	0.014	0.015	0.019	0.018
Ammonia-N	mg/L	0.001	0.02	5.79	0.006	0.008	0.004	0.013	0.011	0.005
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.37	0.27	0.24	0.29	0.34	0.35
Dissolved Organic Carbon	mg/L	0.2	0.6		4.5	4.3	4.1	4.1	4.8	4.5
Carbon Part	mg/L	0.02	0.2		0.63	0.32	0.32	0.27	0.70	0.85
TOC (Calculated)	mg/L	0.8			5.09	4.62	4.41	4.37	5.45	5.39
Fluoride (F)	mg/L	0.01	0.04		0.04	0.05	0.05	0.05	0.05	0.05
Sulphide	mg/L	0.001	0.004		<0.001	0.001	<0.001	0.001	0.001	0.001
Total Suspended Solids	mg/L	1	10		7.0	2.6	1.6	2.3	2.6	3.6
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		45.2	55.5	55.9	57.1	59.5	61.3
Nitrate+Nitrite-N	mg/L	0.005	0.02		0.055	<0.005	<0.005	0.006	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Nitrate-N (calculated)	mg/L				0.0545	<0.005	<0.005	0.0055	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		5.2	3.5	3.7	4.3	5.7	6.7
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	6.92	7.07	7.01	7.50	7.36	7.36
Conductivity (EC)	µS/cm	0.1	2		190	236	226	232	248	256
Bicarbonate (HCO3)	mg/L	1	5		20	25	26	26	27	28
Alkalinity, Total	mgCaCO3/L	1	4		16.7	20.6	21.2	21.5	22.0	22.6
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.93	0.95	0.96	0.96	0.92	0.99
Anions	meq/L	N/A	N/A		1.72	2.05	2.08	2.13	2.24	2.32
Cations	meq/L	N/A	N/A		1.60	1.95	2.00	2.05	2.07	2.31
TDS (Calculated)	mg/L	9			93.5	112	113	116	121	129
Hardness, Total	mgCaCO3/L	0.01	0.25		29.0	34.9	35.7	37.4	35.1	40.8
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		4.02	5.30	5.38	5.38	5.46	5.60
Potassium (K)	mg/L	0.1	0.1		1.6	1.8	1.9	2.0	2.1	2.0
Magnesium (Mg)	mg/L	0.0001	0.0005		4.60	5.27	5.41	5.83	5.22	6.52
Sodium (Na)	mg/L	0.5	1.5		22.6	27.8	28.3	28.7	30.1	33.1
Other										
Color, True	TCU	1	2		25	13	8	14	12	14
Cyanide, Total	mg/L	0.001	0.004		<0.001	0.001	<0.001	0.001	0.001	<0.001
ARC Sample ID					0501927	0502249	0502446	0502634	0503036	0503198
Radium 226	Bq/L	0.005	0.005		<0.005	N/A	<0.005	<0.005	<0.005	<0.005
ETL Sample ID					L293440-5	-	L301588-4	L309418-4	L315200-1	L319705-1

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Little Roberts Outflow

Parameter	Unit	MRV	MDL	CWQG	28-Jun-05	17-Jul-05	5-Aug-05	19-Aug-05	31-Aug-05	14-Sep-05
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	498	96.3	97.6	60.1	156	60.1
Antimony (Sb)	µg/L	0.0005	0.001		0.0156	0.0111	0.0153	0.0106	0.0155	0.0149
Arsenic (As)	µg/L	0.002	0.04	5	0.435	0.384	0.376	0.460	0.446	0.503
Barium (Ba)	µg/L	0.004	0.1		8.19	3.50	3.63	2.87	4.41	3.33
Beryllium (Be)	µg/L	0.003	0.01		0.0107	0.0042	<0.003	<0.003	0.0076	0.0076
Bismuth (Bi)	µg/L	0.001	0.01		<0.001	0.0066	0.0031	<0.001	0.0024	<0.001
Boron (B)	µg/L	0.05	0.8		23.7	24.0	30.9	23.7	23.5	29.4
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.28	6.25	6.59	6.38	7.11	6.44
Chromium (Cr)	µg/L	0.03	0.3		0.815	0.163	0.288	0.316	1.39	0.336
Cobalt (Co)	µg/L	0.001	0.01		0.140	0.0313	0.0508	0.0404	0.0853	0.0501
Copper (Cu)	µg/L	0.05	0.1	2	1.52	1.20	1.59	1.47	1.61	1.63
Iron (Fe)	µg/L	2	4	300	410	130	100	102	176	117
Lead (Pb)	µg/L	0.001	0.006	1	0.234	0.210	0.127	0.0230	0.0680	0.0328
Magnesium (Mg)	mg/L	0.0001	0.0005		5.49	6.19	6.65	6.46	6.10	4.95
Manganese (Mn)	µg/L	0.003	0.03		10.3	9.07	8.31	6.82	9.92	6.88
Mercury (Hg)	ng/L	0.6	1.2	100	<0.6	<0.6	<0.6	N/A	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.183	0.152	0.187	0.153	0.171	0.245
Nickel (Ni)	µg/L	0.005	0.06	25	0.762	0.326	0.516	0.558	0.533	0.604
Potassium (K)	µg/L	2	5		2230	2170	2250	2160	2180	1990
Selenium (Se)	µg/L	0.1	0.3	1	0.767	0.767	0.783	1.34	0.993	1.35
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	<0.0005	0.0023	0.0006	0.0017	0.0006
Sodium (Na)	µg/L	2	6		28600	31500	33600	32200	29200	26900
Strontium (Sr)	µg/L	0.004	0.008		37.1	37.5	41.7	38.9	43.6	42.0
Thallium (Tl)	µg/L	0.0003	0.003		0.120	<0.0003	0.0006	0.0003	0.0028	0.0039
Tin (Sn)	µg/L	0.03	0.07		<0.03	<0.03	<0.03	0.0535	<0.03	0.0510
Uranium (U)	µg/L	0.0001	0.003		0.0613	0.0419	0.0408	0.0430	0.0476	0.0451
Vanadium (V)	µg/L	0.005	0.05		1.34	0.471	0.176	0.0565	0.673	0.075
Zinc (Zn)	µg/L	0.1	0.2	30	10.3	2.42	6.13	2.72	2.56	2.15
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		42.2	9.87	15.9	10.0	15.9	6.54
Antimony (Sb)	µg/L	0.0005	0.001		0.0141	0.0103	0.0151	0.0108	0.0131	0.0146
Arsenic (As)	µg/L	0.002	0.04		0.325	0.348	0.347	0.458	0.425	0.503
Barium (Ba)	µg/L	0.004	0.1		2.55	2.37	2.50	2.21	2.69	2.14
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	0.0075
Boron (B)	µg/L	0.03	0.08		21.9	22.4	30.7	21.4	22.0	29.0
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		4.75	5.96	6.32	6.33	7.11	5.68
Chromium (Cr)	µg/L	0.03	0.3		0.349	0.158	0.282	0.314	1.29	0.333
Cobalt (Co)	µg/L	0.001	0.01		0.0179	0.0060	0.0127	0.0134	0.0117	0.0155
Copper (Cu)	µg/L	0.05	0.1		1.52	1.14	1.59	1.40	1.39	1.25
Iron (Fe)	µg/L	2	4		51.5	29.9	22.4	28.5	17.7	20.1
Lead (Pb)	µg/L	0.001	0.006		0.120	0.200	0.114	0.0195	0.0148	0.0071
Magnesium (Mg)	mg/L	0.0001	0.0005		5.04	5.86	6.34	5.40	6.06	4.18
Manganese (Mn)	µg/L	0.003	0.03		1.39	0.272	0.407	0.135	0.093	0.103
Molybdenum (Mo)	µg/L	0.001	0.008		0.163	0.142	0.169	0.153	0.169	0.170
Nickel (Ni)	µg/L	0.005	0.06		0.761	0.282	0.401	0.376	0.339	0.403
Potassium (K)	µg/L	2	5		1890	2040	2130	2060	2110	1720
Selenium (Se)	µg/L	0.1	0.3		0.588	0.762	0.679	1.34	0.984	1.35
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		26900	30100	32800	28600	29100	22700
Strontium (Sr)	µg/L	0.004	0.008		32.5	37.2	40.2	38.5	43.6	36.1
Uranium (U)	µg/L	0.0001	0.003		0.0341	0.0261	0.0242	0.0256	0.0317	0.0279
Vanadium (V)	µg/L	0.005	0.05		0.589	0.261	0.173	0.027	0.409	<0.01
Zinc (Zn)	µg/L	0.05	0.2		10.3	1.18	4.33	2.43	1.78	1.06
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.019	0.016	0.014	0.018	0.018	0.017
Ammonia-N	mg/L	0.001	0.02	5.79	0.005	0.009	0.004	0.004	0.011	0.004
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.35	0.33	0.31	0.36	0.41	0.39
Dissolved Organic Carbon	mg/L	0.2	0.6		5.3	4.0	5.3	4.4	5.4	5.7
Carbon Part	mg/L	0.02	0.2		0.40	0.38	0.52	0.39	0.54	0.92
TOC (Calculated)	mg/L	0.8			5.72	4.38	5.77	4.79	5.92	6.61
Fluoride (F)	mg/L	0.01	0.04		0.04	0.05	0.05	0.06	0.06	0.06
Sulphide	mg/L	0.001	0.004		0.001	0.001	<0.001	<0.001	0.001	0.001
Total Suspended Solids	mg/L	1	10		4.3	2.3	<1	2.3	4.3	2.2
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		51.0	58.8	59.6	59.9	62.8	70.2
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		6.3	3.5	5.0	4.4	6.9	5.5
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	6.98	7.16	7.05	7.53	7.41	7.48
Conductivity (EC)	µS/cm	0.1	2		218	245	241	247	271	301
Bicarbonate (HCO3)	mg/L	1	5		25	28	29	30	32	30
Alkalinity, Total	mgCaCO3/L	1	4		20.1	22.6	23.8	24.7	26.1	24.9
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.95	0.95	0.95	0.94	0.91	0.95
Anions	meq/L	N/A	N/A		1.98	2.19	2.26	2.28	2.44	2.59
Cations	meq/L	N/A	N/A		1.88	2.08	2.14	2.13	2.23	2.47
TDS (Calculated)	mg/L	9			108	119	123	123	131	143
Hardness, Total	mgCaCO3/L	0.01	0.25		36.2	37.3	40.1	40.2	41.8	34.9
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		5.38	5.93	6.51	6.38	7.04	6.05
Potassium (K)	mg/L	0.1	0.1		1.8	2.0	2.0	2.1	2.2	2.5
Magnesium (Mg)	mg/L	0.0001	0.0005		5.52	5.47	5.80	5.89	5.88	4.81
Sodium (Na)	mg/L	0.5	1.5		25.6	29.4	29.6	29.3	30.7	39.3
Other										
Color, True	TCU	1	2		25	13	8	16	12	15
Cyanide, Total	mg/L	0.001	0.004		0.001	0.001	0.001	0.001	0.001	<0.001
ARC Sample ID					0501926	0502248	0502445	0502637	0503037	0503204
Radon 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005	<0.005	0.006	N/A
ETL Sample ID					L293440-1	L293440-8	L301588-3	L309418-7	L315200-2	-

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Doris Lake

Parameter	Unit	MRV	MDL	CWQG	19-Jul-05		20-Aug-05		15-Sep-05	
					Top	Bottom	Top	Bottom	Top	Bottom
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	59.3	108	35.5	37.2	46.8	69.2
Antimony (Sb)	µg/L	0.0005	0.001		0.0143	0.117	0.0139	0.0128	0.0147	0.0143
Arsenic (As)	µg/L	0.002	0.04	5	0.433	0.589	0.503	0.435	0.340	0.345
Barium (Ba)	µg/L	0.004	0.1		3.32	5.30	2.83	2.97	3.21	3.38
Beryllium (Be)	µg/L	0.003	0.01		0.0032	0.0050	<0.003	<0.003	<0.003	<0.003
Bismuth (Bi)	µg/L	0.001	0.01		0.0036	0.0055	<0.001	0.0042	<0.001	<0.001
Boron (B)	µg/L	0.05	0.8		24.3	25.5	26.3	24.5	22.9	21.3
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	0.233	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		7.45	7.81	7.19	7.20	7.09	7.03
Chromium (Cr)	µg/L	0.03	0.3		0.141	<0.03	0.265	0.257	0.204	0.233
Cobalt (Co)	µg/L	0.001	0.01		0.0262	0.0832	0.0216	0.0215	0.0373	0.0409
Copper (Cu)	µg/L	0.05	0.1	2	1.14	5.66	1.51	1.42	1.49	1.48
Iron (Fe)	µg/L	2	4	300	164	223	38.6	38.7	61.8	88.2
Lead (Pb)	µg/L	0.001	0.006	1	0.236	1.83	0.0215	0.0234	0.0895	0.136
Magnesium (Mg)	mg/L	0.0001	0.0005		6.57	6.84	7.64	7.28	5.41	5.42
Manganese (Mn)	µg/L	0.003	0.03		23.4	25.8	5.03	5.52	9.78	12.3
Mercury (Hg)	ng/L	0.6	1.2	100	21	3.4	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.116	0.147	0.132	0.138	0.136	0.129
Nickel (Ni)	µg/L	0.005	0.06	25	0.312	28.3	0.289	0.329	0.479	0.580
Potassium (K)	µg/L	2	5		2430	2570	2670	2480	2250	2270
Selenium (Se)	µg/L	0.1	0.3	1	1.11	1.11	1.47	1.09	0.668	0.583
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	0.0108	<0.0005	0.0010	<0.0005	0.0016
Sodium (Na)	µg/L	2	6		33100	34300	39400	36900	29900	30400
Strontium (Sr)	µg/L	0.004	0.008		39.0	41.0	38.7	38.1	38.1	38.3
Thallium (Tl)	µg/L	0.0003	0.003		<0.0003	<0.0003	<0.0003	0.0014	0.0017	0.0018
Tin (Sn)	µg/L	0.03	0.07		1.02	3.80	14.9	20.2	21.0	14.8
Uranium (U)	µg/L	0.0001	0.003		0.0329	0.0573	0.0374	0.0341	0.0370	0.0344
Vanadium (V)	µg/L	0.005	0.05		0.380	0.458	0.034	0.068	0.105	0.165
Zinc (Zn)	µg/L	0.1	0.2	30	4.97	20.4	2.84	3.00	2.64	1.79
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		5.43	6.86	3.27	2.61	1.54	1.74
Antimony (Sb)	µg/L	0.0005	0.001		0.0139	0.109	0.0137	0.0125	0.0138	0.0139
Arsenic (As)	µg/L	0.002	0.04		0.368	0.452	0.493	0.411	0.340	0.321
Barium (Ba)	µg/L	0.004	0.1		2.45	3.61	2.36	2.38	2.20	2.24
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		21.3	23.7	22.9	21.7	21.0	20.6
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	0.098	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		6.97	7.45	7.06	6.77	6.46	6.69
Chromium (Cr)	µg/L	0.03	0.3		0.141	<0.03	0.257	0.257	0.199	0.212
Cobalt (Co)	µg/L	0.001	0.01		0.0037	0.0062	0.0124	0.0110	0.0120	0.0155
Copper (Cu)	µg/L	0.05	0.1		1.13	2.03	1.51	1.36	1.23	1.48
Iron (Fe)	µg/L	2	4		27.2	32.1	3.25	2.38	<2	<2
Lead (Pb)	µg/L	0.001	0.006		0.183	0.0974	0.0141	0.0159	0.0050	0.0194
Magnesium (Mg)	mg/L	0.0001	0.0005		6.19	6.51	7.29	6.77	4.89	5.13
Manganese (Mn)	µg/L	0.003	0.03		0.172	0.173	0.043	0.084	0.034	0.098
Molybdenum (Mo)	µg/L	0.001	0.008		0.108	0.125	0.120	0.116	0.122	0.124
Nickel (Ni)	µg/L	0.005	0.06		0.147	0.321	0.159	0.148	0.200	0.312
Potassium (K)	µg/L	2	5		2240	2400	2530	2270	2020	2130
Selenium (Se)	µg/L	0.1	0.3		0.999	1.09	1.44	1.08	0.659	0.555
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		31300	32900	37600	35000	27300	28700
Strontium (Sr)	µg/L	0.004	0.008		38.8	40.1	38.2	35.3	37.7	36.0
Uranium (U)	µg/L	0.0001	0.003		0.0194	0.0281	0.0223	0.0265	0.0186	0.0214
Vanadium (V)	µg/L	0.005	0.05		0.281	0.255	0.035	0.068	0.014	0.059
Zinc (Zn)	µg/L	0.05	0.2		4.82	19.2	2.78	3.03	2.64	1.73
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.022	0.030	0.023	0.023	0.026	0.025
Ammonia-N	mg/L	0.001	0.02	5.79	0.007	0.009	0.005	0.008	0.007	0.006
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.45	0.57	0.47	0.43	0.54	0.51
Dissolved Organic Carbon	mg/L	0.2	0.6		4.7	4.8	5.0	4.9	5.2	4.9
Carbon Part	mg/L	0.02	0.2		0.59	0.49	0.83	0.80	1.63	1.94
TOC (Calculated)	mg/L	0.8			5.29	5.29	5.83	5.70	6.83	6.84
Fluoride (F)	mg/L	0.01	0.04		0.06	0.05	0.06	0.07	0.05	0.05
Sulphide	mg/L	0.001	0.004		0.001	0.001	0.001	<0.001	<0.001	N/A
Total Suspended Solids	mg/L	1	10		3.0	5.3	3.0	10	4.0	4.0
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		61.4	61.9	59.6	60.7	62.3	67.2
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		<3	3.0	3.5	<3	7.0	7.0
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	7.10	7.10	7.70	7.66	7.62	7.65
Conductivity (EC)	µS/cm	0.1	2		263	263	252	253	262	261
Bicarbonate (HCO3)	mg/L	1	5		32	32	33	33	34	34
Alkalinity, Total	mgCaCO3/L	1	4		26.7	26.6	26.9	26.9	27.7	27.5
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.94	0.94	0.95	0.96	0.92	0.92
Anions	meq/L	N/A	N/A		2.31	2.34	2.30	2.30	2.45	2.60
Cations	meq/L	N/A	N/A		2.16	2.20	2.17	2.20	2.26	2.39
TDS (Calculated)	mg/L	9			124	126	124	124	133	141
Hardness, Total	mgCaCO3/L	0.01	0.25		41.2	40.5	41.0	40.3	38.8	39.7
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		6.99	6.92	6.83	6.67	6.77	6.95
Potassium (K)	mg/L	0.1	0.1		2.2	2.2	2.2	2.4	2.2	2.3
Magnesium (Mg)	mg/L	0.0001	0.0005		5.76	5.64	5.82	5.75	5.33	5.42
Sodium (Na)	mg/L	0.5	1.5		29.5	30.7	29.8	30.6	32.7	35.5
Other										
Color, True	TCU	1	2		13	17	16	16	15	15
Cyanide, Total	mg/L	0.001	0.004		0.001	0.001	0.001	0.002	<0.001	<0.001
ARC Sample ID					0502250	0502251	0502638	0502639	0503206	0503207
Radium 226	Bq/L	0.005	0.005		0.008	<0.005	N/A	<0.005	N/A	<0.005
ETL Sample ID					L293440-10	L293440-11	-	L309418-9	-	L319705-10

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Tail Lake

Parameter	Unit	MRV	MDL	CWQG	20-Jul-05		21-Aug-05		16-Sep-05	
					Top	Bottom	Top	Bottom	Top	Bottom
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	39.0	37.2	32.6	36.3	73.3	73.2
Antimony (Sb)	µg/L	0.0005	0.001		0.0098	0.0076	0.0125	0.0111	0.0098	0.0089
Arsenic (As)	µg/L	0.002	0.04	5	0.227	0.204	0.239	0.249	0.169	0.160
Barium (Ba)	µg/L	0.004	0.1		1.86	1.82	1.53	1.68	2.35	2.36
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	0.0057	0.0055
Bismuth (Bi)	µg/L	0.001	0.01		0.0029	0.0202	0.0012	0.0011	0.0014	0.0013
Boron (B)	µg/L	0.05	0.8		15.7	15.3	14.2	16.5	12.7	11.8
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.88	4.94	5.39	5.72	5.36	5.27
Chromium (Cr)	µg/L	0.03	0.3		<0.03	0.220	0.207	0.252	0.204	0.210
Cobalt (Co)	µg/L	0.001	0.01		0.0104	<0.001	0.0168	0.0167	0.0435	0.0278
Copper (Cu)	µg/L	0.05	0.1	2	1.01	0.612	1.03	1.15	1.13	1.10
Iron (Fe)	µg/L	2	4	300	81.8	56.7	35.7	43.0	63.0	63.1
Lead (Pb)	µg/L	0.001	0.006	1	0.0977	0.0612	0.0405	0.0311	0.0314	0.0332
Magnesium (Mg)	mg/L	0.0001	0.0005		4.72	4.82	4.65	5.08	3.94	3.76
Manganese (Mn)	µg/L	0.003	0.03		5.69	5.26	2.57	2.85	2.64	2.61
Mercury (Hg)	ng/L	0.6	1.2	100	5.5	2.6	<0.6	N/A	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.0745	0.0821	0.0928	0.106	0.0927	0.0904
Nickel (Ni)	µg/L	0.005	0.06	25	0.302	0.265	0.368	0.375	0.526	0.483
Potassium (K)	µg/L	2	5		1580	1380	1510	1590	1390	1340
Selenium (Se)	µg/L	0.1	0.3	1	0.561	0.212	0.306	0.382	0.113	0.145
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	0.0011	0.0011	0.0012	0.0013	<0.0005
Sodium (Na)	µg/L	2	6		15800	15900	16300	17200	13900	13100
Strontium (Sr)	µg/L	0.004	0.008		22.9	20.3	21.5	23.0	22.2	21.8
Thallium (Tl)	µg/L	0.0003	0.003		<0.0003	0.0010	0.0012	0.0009	0.0019	0.0019
Tin (Sn)	µg/L	0.03	0.07		9.77	1.46	8.19	25.0	5.74	0.657
Uranium (U)	µg/L	0.0001	0.003		0.0368	0.0199	0.0254	0.0290	0.0268	0.0276
Vanadium (V)	µg/L	0.005	0.05		0.032	0.309	0.055	0.085	0.150	0.159
Zinc (Zn)	µg/L	0.1	0.2	30	<0.1	0.619	0.368	10.2	0.905	2.03
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		6.14	5.76	9.31	9.11	17.1	16.6
Antimony (Sb)	µg/L	0.0005	0.001		0.0093	0.0069	0.0122	0.0104	0.0098	0.0089
Arsenic (As)	µg/L	0.002	0.04		0.190	0.180	0.229	0.237	0.133	0.136
Barium (Ba)	µg/L	0.004	0.1		1.37	1.33	1.27	1.25	1.51	1.44
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	0.0031
Boron (B)	µg/L	0.03	0.08		13.9	12.6	12.6	13.0	11.3	10.1
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.53	4.48	5.38	5.22	4.97	4.78
Chromium (Cr)	µg/L	0.03	0.3		<0.03	0.214	0.205	0.237	0.160	0.135
Cobalt (Co)	µg/L	0.001	0.01		<0.001	<0.001	0.0115	0.0111	0.0134	0.0089
Copper (Cu)	µg/L	0.05	0.1		1.01	0.610	1.03	1.15	1.06	0.975
Iron (Fe)	µg/L	2	4		14.8	3.12	5.10	3.06	9.70	9.19
Lead (Pb)	µg/L	0.001	0.006		0.0820	0.0603	0.0229	0.0174	0.0312	0.0121
Magnesium (Mg)	mg/L	0.0001	0.0005		4.41	3.87	4.54	4.59	3.72	3.46
Manganese (Mn)	µg/L	0.003	0.03		0.067	0.160	0.163	0.117	0.180	0.090
Molybdenum (Mo)	µg/L	0.001	0.008		0.0719	0.0802	0.0929	0.0952	0.0920	0.0799
Nickel (Ni)	µg/L	0.005	0.06		0.255	0.219	0.359	0.375	0.526	0.420
Potassium (K)	µg/L	2	5		1480	1240	1510	1450	1310	1220
Selenium (Se)	µg/L	0.1	0.3		0.442	0.212	0.299	0.378	<0.1	0.122
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	0.0011	0.0006	<0.0005	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		15000	14600	16000	16200	13900	12300
Strontium (Sr)	µg/L	0.004	0.008		22.4	19.3	21.6	21.4	21.7	20.1
Uranium (U)	µg/L	0.0001	0.003		0.0120	0.0122	0.0187	0.0153	0.0146	0.0125
Vanadium (V)	µg/L	0.005	0.05		<0.005	0.242	0.055	0.079	0.075	0.083
Zinc (Zn)	µg/L	0.05	0.2		<0.05	<0.05	0.369	4.10	0.530	1.36
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.009	0.010	0.009	0.008	0.006	0.011
Ammonia-N	mg/L	0.001	0.02	5.79	0.006	0.006	0.029	0.005	0.008	0.006
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.26	0.19	0.30	0.26	0.28	0.30
Dissolved Organic Carbon	mg/L	0.2	0.6		4.6	4.4	4.5	4.7	5.2	4.9
Carbon Part	mg/L	0.02	0.2		0.12	0.27	0.14	0.13	0.14	0.22
TOC (Calculated)	mg/L	0.8			4.72	4.67	4.64	4.83	5.34	5.11
Fluoride (F)	mg/L	0.01	0.04		0.05	0.05	0.06	0.07	0.06	0.07
Sulphide	mg/L	0.001	0.004		<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Total Suspended Solids	mg/L	1	10		<1	1.0	<1	<1	<1	<1
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		27.5	27.6	28.3	27.9	29.5	29.2
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	0.0038	0.0033
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		<3	<3	<3	<3	3.8	<3
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	7.32	7.30	7.60	7.63	7.54	7.53
Conductivity (EC)	µS/cm	0.1	2		146	146	147	146	151	150
Bicarbonate (HCO3)	mg/L	1	5		30	30	30	31	32	32
Alkalinity, Total	mgCaCO3/L	1	4		24.3	24.4	25.0	25.2	26.0	26.1
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.97	0.95	0.94	0.93	0.91	1.16
Anions	meq/L	N/A	N/A		1.30	1.31	1.34	1.34	1.43	1.39
Cations	meq/L	N/A	N/A		1.26	1.24	1.26	1.25	1.30	1.61
TDS (Calculated)	mg/L	9			69.1	69.0	70.2	69.8	75.0	80.3
Hardness, Total	mgCaCO3/L	0.01	0.25		31.0	29.4	30.8	30.4	29.2	28.3
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		5.51	5.13	5.39	5.37	5.20	5.14
Potassium (K)	mg/L	0.1	0.1		1.3	1.4	1.4	1.4	1.4	1.4
Magnesium (Mg)	mg/L	0.0001	0.0005		4.19	4.03	4.20	4.13	3.95	3.75
Sodium (Na)	mg/L	0.5	1.5		14.0	14.2	13.9	13.8	15.6	23.2
Other										
Color, True	TCU	1	2		14	14	15	15	15	15
Cyanide, Total	mg/L	0.001	0.004		<0.001	<0.001	0.001	0.001	<0.001	<0.001
ARC Sample ID					0502252	0502253	0502641	0502642	0503210	0503211
Radium 226	Bq/L	0.005	0.005		<0.005	<0.005	N/A	0.010	<0.005	N/A
ETL Sample ID					L293440-12	L293440-13	-	L309418-12	L319705-13	-

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Roberts Lake

Parameter	Unit	MRV	MDL	CWQG	20-Jul-05		16-Aug-05		13-Sep-05	
					Top (MoR)	Bottom	Top (MoR)	Bottom	Top (MoR)	Bottom
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	248	238	63.8	74.4	140	147
Antimony (Sb)	µg/L	0.0005	0.001		0.0141	0.0128	0.0125	0.0124	0.0158	0.0155
Arsenic (As)	µg/L	0.002	0.04	5	0.429	0.427	0.355	0.382	0.372	0.361
Barium (Ba)	µg/L	0.004	0.1		4.80	4.87	2.81	3.06	3.63	3.80
Beryllium (Be)	µg/L	0.003	0.01		0.0104	0.0052	0.0046	0.0046	0.0073	0.0053
Bismuth (Bi)	µg/L	0.001	0.01		0.0067	0.0052	0.0024	0.0027	0.0035	0.0035
Boron (B)	µg/L	0.05	0.8		25.7	25.2	24.7	24.5	22.5	24.1
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		4.89	4.90	5.38	5.68	6.14	6.27
Chromium (Cr)	µg/L	0.03	0.3		0.486	0.474	0.357	0.364	0.215	0.226
Cobalt (Co)	µg/L	0.001	0.01		0.0617	0.0580	0.0296	0.0336	0.0498	0.0507
Copper (Cu)	µg/L	0.05	0.1	2	1.67	1.27	1.47	1.55	1.78	1.71
Iron (Fe)	µg/L	2	4	300	201	191	85.6	96.9	124	125
Lead (Pb)	µg/L	0.001	0.006	1	0.239	0.242	0.0302	0.0294	0.0648	0.0512
Magnesium (Mg)	mg/L	0.0001	0.0005		6.28	6.35	5.71	6.09	7.35	7.64
Manganese (Mn)	µg/L	0.003	0.03		11.9	11.6	5.59	6.05	6.06	6.06
Mercury (Hg)	ng/L	0.6	1.2	100	2.7	5.5	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.191	0.187	0.178	0.184	0.217	0.222
Nickel (Ni)	µg/L	0.005	0.06	25	0.475	0.399	0.437	0.412	0.564	0.509
Potassium (K)	µg/L	2	5		1920	1940	2010	2100	2400	2440
Selenium (Se)	µg/L	0.1	0.3	1	0.682	0.530	0.718	0.775	0.553	0.556
Silver (Ag)	µg/L	0.0005	0.005	0.1	0.0020	0.0023	0.0008	0.0010	0.0011	0.0009
Sodium (Na)	µg/L	2	6		32050	32500	30550	33100	38500	39300
Strontium (Sr)	µg/L	0.004	0.008		33.2	33.4	36.8	39.0	38.5	39.5
Thallium (Tl)	µg/L	0.0003	0.003		0.0025	0.0021	0.0013	0.0012	0.0032	0.0025
Tin (Sn)	µg/L	0.03	0.07		7.13	6.40	10.6	1.25	14.8	1.04
Uranium (U)	µg/L	0.0001	0.003		0.0485	0.0531	0.0487	0.0537	0.0539	0.0519
Vanadium (V)	µg/L	0.005	0.05		0.909	0.807	0.146	0.161	0.229	0.246
Zinc (Zn)	µg/L	0.1	0.2	30	1.639	1.44	0.949	1.13	1.49	1.53
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		17.1	14.2	6.58	5.88	11.3	11.4
Antimony (Sb)	µg/L	0.0005	0.001		0.0142	0.0125	0.0126	0.0126	0.0155	0.0148
Arsenic (As)	µg/L	0.002	0.04		0.341	0.335	0.310	0.321	0.308	0.296
Barium (Ba)	µg/L	0.004	0.1		2.54	2.34	2.00	2.06	2.13	2.13
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	0.0032	<0.003	0.0041
Boron (B)	µg/L	0.03	0.08		25.6	23.1	21.6	20.8	20.6	20.5
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		4.71	4.62	5.18	5.33	5.69	5.70
Chromium (Cr)	µg/L	0.03	0.3		0.307	0.318	0.351	0.356	0.100	0.108
Cobalt (Co)	µg/L	0.001	0.01		0.0060	<0.001	0.0091	0.0120	0.0088	0.0097
Copper (Cu)	µg/L	0.05	0.1		1.28	1.28	1.44	1.43	1.53	1.66
Iron (Fe)	µg/L	2	4		23.9	13.9	10.7	12.7	<2	2.86
Lead (Pb)	µg/L	0.001	0.006		0.182	0.185	0.0148	0.0176	0.0112	0.0363
Magnesium (Mg)	mg/L	0.0001	0.0005		5.95	5.98	5.54	5.53	6.86	6.89
Manganese (Mn)	µg/L	0.003	0.03		6.22	0.394	0.080	0.124	0.480	0.542
Molybdenum (Mo)	µg/L	0.001	0.008		0.184	0.174	0.172	0.177	0.175	0.173
Nickel (Ni)	µg/L	0.005	0.06		0.289	0.212	0.360	0.367	0.332	0.343
Potassium (K)	µg/L	2	5		1765	1780	1905	1920	2170	2200
Selenium (Se)	µg/L	0.1	0.3		0.570	0.522	0.682	0.693	0.509	0.480
Silver (Ag)	µg/L	0.0005	0.005		0.0014	0.0012	<0.0005	<0.0005	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		31050	31100	29650	29100	36400	36600
Strontium (Sr)	µg/L	0.004	0.008		32.8	33.4	35.2	36.3	37.7	38.6
Uranium (U)	µg/L	0.0001	0.003		0.0345	0.0293	0.0259	0.0280	0.0301	0.0288
Vanadium (V)	µg/L	0.005	0.05		0.456	0.417	0.095	0.111	0.059	0.056
Zinc (Zn)	µg/L	0.05	0.2		1.61	1.44	0.946	1.05	1.06	1.52
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008		0.019	0.021	0.015	0.015	0.017	0.018
Ammonia-N	mg/L	0.001	0.02	5.79	0.015	0.012	0.006	0.007	0.019	0.005
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.30	0.30	0.28	0.29	0.39	0.36
Dissolved Organic Carbon	mg/L	0.2	0.6		3.8	4.1	3.9	3.7	5.7	4.6
Carbon Part	mg/L	0.02	0.2		0.39	0.32	0.34	0.59	0.88	0.77
TOC (Calculated)	mg/L	0.8			4.19	4.42	4.24	4.29	6.58	5.37
Fluoride (F)	mg/L	0.01	0.04		0.05	0.04	0.05	0.05	0.05	0.05
Sulphide	mg/L	0.001	0.004		<0.001	<0.001	0.001	0.001	<0.001	<0.001
Total Suspended Solids	mg/L	1	10		3.7	4.3	2.7	2.0	3.3	3.3
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		55.7	55.3	56.0	56.1	62.5	62.4
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	<0.005	<0.005	<0.005	0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		5.2	5.7	4.0	4.0	7.0	6.0
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	7.12	7.14	7.47	7.49	7.40	7.47
Conductivity (EC)	µS/cm	0.1	2		234	234	231	231	257	256
Bicarbonate (HCO3)	mg/L	1	5		24	24	26	26	27	27
Alkalinity, Total	mgCaCO3/L	1	4		19.8	19.9	21.6	21.6	22.3	22.5
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.93	0.92	0.97	0.97	0.98	0.98
Anions	meq/L	N/A	N/A		2.08	2.08	2.10	2.11	2.36	2.34
Cations	meq/L	N/A	N/A		1.92	1.92	2.02	2.04	2.29	2.30
TDS (Calculated)	mg/L	9			113	113	115	115	130	130
Hardness, Total	mgCaCO3/L	0.01	0.25		32.8	32.8	36.9	37.9	39.1	39.8
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		4.89	4.89	5.36	5.35	5.58	5.67
Potassium (K)	mg/L	0.1	0.1		1.8	1.8	2.1	2.1	2.0	2.0
Magnesium (Mg)	mg/L	0.0001	0.0005		5.00	4.99	5.71	5.96	6.11	6.24
Sodium (Na)	mg/L	0.5	1.5		28.0	28.0	28.4	28.3	33.5	33.3
Other										
Color, True	TCU	1	2		15	15	17	14	14	14
Cyanide, Total	mg/L	0.001	0.004		<0.001	0.001	0.001	<0.001	<0.001	<0.001
ARC Sample ID					0502254+57	0502255	0502631+33	0502632	0503199+201	0503200
Radium 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005	0.010	<0.005	<0.005
ETL Sample ID					L293440-14+18	L293440-15	L309418-1+3	L309418-2	L319705-2+4	L319705-3

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005) MoR = Mean of replicates

Appendix B2. Water Quality Data

Little Roberts Lake

Parameter	Unit	MRV	MDL	CWQG	21-Jul-05	19-Aug-05	14-Sep-05
					Top	Top	Top
Total Metals							
Aluminum (Al)	µg/L	0.5	2	100	94.2	51.5	54.5
Antimony (Sb)	µg/L	0.0005	0.001		0.0174	0.0138	0.0171
Arsenic (As)	µg/L	0.002	0.04	5	0.392	0.541	0.406
Barium (Ba)	µg/L	0.004	0.1		3.53	2.93	3.14
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003
Bismuth (Bi)	µg/L	0.001	0.01		0.0025	<0.001	<0.001
Boron (B)	µg/L	0.05	0.8		24.4	25.8	25.3
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		6.03	6.07	6.49
Chromium (Cr)	µg/L	0.03	0.3		0.306	0.474	0.248
Cobalt (Co)	µg/L	0.001	0.01		0.0314	0.0423	0.0457
Copper (Cu)	µg/L	0.05	0.1	2	1.22	1.63	1.68
Iron (Fe)	µg/L	2	4	300	103	107	106
Lead (Pb)	µg/L	0.001	0.006	1	0.226	0.0317	0.0403
Magnesium (Mg)	mg/L	0.0001	0.0005		6.71	5.27	5.21
Manganese (Mn)	µg/L	0.003	0.03		7.67	6.68	6.41
Mercury (Hg)	ng/L	0.6	1.2	100	1.7	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.163	0.184	0.177
Nickel (Ni)	µg/L	0.005	0.06	25	0.309	0.543	0.529
Potassium (K)	µg/L	2	5		2060	2090	2110
Selenium (Se)	µg/L	0.1	0.3	1	0.765	1.58	0.793
Silver (Ag)	µg/L	0.0005	0.005	0.1	0.0022	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		33700	28700	29000
Strontium (Sr)	µg/L	0.004	0.008		35.7	40.9	40.3
Thallium (Tl)	µg/L	0.0003	0.003		<0.0003	0.0012	0.0020
Tin (Sn)	µg/L	0.03	0.07		2.35	10.4	6.69
Uranium (U)	µg/L	0.0001	0.003		0.0396	0.0572	0.0409
Vanadium (V)	µg/L	0.005	0.05		0.589	0.010	0.128
Zinc (Zn)	µg/L	0.1	0.2	30	9.39	0.916	2.45
Dissolved Metals							
Aluminum (Al)	µg/L	0.2	1		15.1	8.92	6.86
Antimony (Sb)	µg/L	0.0005	0.001		0.0173	0.0115	0.0169
Arsenic (As)	µg/L	0.002	0.04		0.350	0.546	0.388
Barium (Ba)	µg/L	0.004	0.1		2.50	2.14	2.25
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		22.6	25.7	24.3
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		5.85	5.65	5.89
Chromium (Cr)	µg/L	0.03	0.3		0.302	0.468	0.242
Cobalt (Co)	µg/L	0.001	0.01		<0.001	0.0157	0.0122
Copper (Cu)	µg/L	0.05	0.1		1.17	1.44	1.60
Iron (Fe)	µg/L	2	4		21.2	40.2	13.2
Lead (Pb)	µg/L	0.001	0.006		0.189	0.0172	0.0125
Magnesium (Mg)	mg/L	0.0001	0.0005		6.44	4.69	4.68
Manganese (Mn)	µg/L	0.003	0.03		0.373	0.120	0.105
Molybdenum (Mo)	µg/L	0.001	0.008		0.146	0.171	0.161
Nickel (Ni)	µg/L	0.005	0.06		0.163	0.443	0.341
Potassium (K)	µg/L	2	5		1960	1930	1860
Selenium (Se)	µg/L	0.1	0.3		0.737	1.56	0.785
Silver (Ag)	µg/L	0.0005	0.005		0.0006	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		32400	25200	26400
Strontium (Sr)	µg/L	0.004	0.008		34.9	37.7	37.4
Uranium (U)	µg/L	0.0001	0.003		0.0232	0.0365	0.0254
Vanadium (V)	µg/L	0.005	0.05		0.431	<0.01	0.017
Zinc (Zn)	µg/L	0.05	0.2		1.06	0.889	2.33
Nutrients							
Phosphorus, Total	mg/L	0.001	0.008		0.017	0.015	0.018
Ammonia-N	mg/L	0.001	0.02	5.79	0.005	0.009	0.008
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.36	0.32	0.39
Dissolved Organic Carbon	mg/L	0.2	0.6		4.4	4.2	4.8
Carbon Part	mg/L	0.02	0.2		0.42	0.33	0.90
TOC (Calculated)	mg/L	0.8			4.82	4.53	5.69
Fluoride (F)	mg/L	0.01	0.04		0.06	0.05	0.05
Sulphide	mg/L	0.001	0.004		0.001	<0.001	0.001
Total Suspended Solids	mg/L	1	10		1.3	2.3	2.6
Routine Analysis - low level							
Chloride (Cl)	mg/L	0.3	0.6		59.4	58.4	64.3
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	<0.005	<0.005
Nitrite-N	mg/L	0.001	0.016	0.06	<0.001	<0.001	<0.001
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		4.0	3.4	10.9
pH, Conductivity and Alkalinity							
pH	pH	N/A	N/A	6.5-9.0	7.21	7.57	7.45
Conductivity (EC)	µS/cm	0.1	2		252	244	266
Bicarbonate (HCO3)	mg/L	1	5		29	28	30
Alkalinity, Total	mgCaCO ₃ /L	1	4		24.1	23.3	24.7
P- Alkalinity	mgCaCO ₃ /L	1	4		<1	<1	<1
Ion Balance Calculation							
Ion Balance		N/A	N/A		0.92	0.93	0.89
Anions	meq/L	N/A	N/A		2.24	2.19	2.54
Cations	meq/L	N/A	N/A		2.07	2.04	2.25
TDS (Calculated)	mg/L	9			121	118	137
Hardness, Total	mgCaCO ₃ /L	0.01	0.25		36.9	36.8	36.4
ICP metals for routine water							
Calcium (Ca)	mg/L	0.004	0.1		6.00	6.03	6.17
Potassium (K)	mg/L	0.1	0.1		2.0	2.0	2.1
Magnesium (Mg)	mg/L	0.0001	0.0005		5.33	5.27	5.09
Sodium (Na)	mg/L	0.5	1.5		29.4	28.9	33.7
Other							
Color, True	TCU	1	2		17	16	15
Cyanide, Total	mg/L	0.001	0.004		0.001	0.001	<0.001
ARC Sample ID					0502259	0502636	0503205
Radium 226	Bq/L	0.005	0.005		<0.005	N/A	<0.005
ETL Sample ID					L293440-16	-	L319705-7

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit

CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. Water Quality Data

Roberts Bay

Parameter	Unit	MRV	MDL	CWQG	21-Jul-05	18-Aug-05	14-Sep-05
					Top	Top	Top
Total Metals							
Aluminum (Al)	µg/L	0.5	2	12.5	989	10.9	161
Antimony (Sb)	µg/L	0.0005	0.001		0.0325	0.129	0.135
Arsenic (As)	µg/L	0.002	0.04		4.73	22.1	21.2
Barium (Ba)	µg/L	0.004	0.1		12.1	7.47	9.61
Beryllium (Be)	µg/L	0.003	0.01		0.0297	0.0113	0.0155
Bismuth (Bi)	µg/L	0.001	0.01		0.0187	0.0087	0.0090
Boron (B)	µg/L	0.05	0.8		289	932	818
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		36.8	182	189
Chromium (Cr)	µg/L	0.03	0.3		2.13	1.39	1.58
Cobalt (Co)	µg/L	0.001	0.01	0.12	0.409	0.471	0.542
Copper (Cu)	µg/L	0.05	0.1		1.85	3.81	3.55
Iron (Fe)	µg/L	2	4		735	120	511
Lead (Pb)	µg/L	0.001	0.006		0.391	0.0918	0.135
Magnesium (Mg)	mg/L	0.0001	0.0005		102	502	524
Manganese (Mn)	µg/L	0.003	0.03		15.4	1.59	7.10
Mercury (Hg)	ng/L	0.6	1.2		2.3	1.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080		1.02	4.71	4.78
Nickel (Ni)	µg/L	0.005	0.06		0.371	<0.005	1.81
Potassium (K)	µg/L	2	5		34900	176000	172000
Selenium (Se)	µg/L	0.1	0.3	0.005	N/A	N/A	N/A
Silver (Ag)	µg/L	0.0005	0.005		0.0066	0.0096	0.0070
Sodium (Na)	µg/L	2	6		896000	4180000	4460000
Strontium (Sr)	µg/L	0.004	0.008		747	3430	3570
Thallium (Tl)	µg/L	0.0003	0.003		0.0099	0.0113	0.0184
Tin (Sn)	µg/L	0.03	0.07		78.0	55.3	25.1
Uranium (U)	µg/L	0.0001	0.003		0.331	2.05	1.58
Vanadium (V)	µg/L	0.005	0.05		11.700	<0.01	<0.01
Zinc (Zn)	µg/L	0.1	0.2		1.83	3.88	4.43
Dissolved Metals							
Aluminum (Al)	µg/L	0.2	1	5.79	11.2	1.26	3.07
Antimony (Sb)	µg/L	0.0005	0.001		0.0319	0.128	0.129
Arsenic (As)	µg/L	0.002	0.04		4.53	22.1	21.2
Barium (Ba)	µg/L	0.004	0.1		3.39	6.81	6.97
Beryllium (Be)	µg/L	0.003	0.01		0.0090	0.0104	0.0109
Boron (B)	µg/L	0.03	0.08		289	862	738
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		36.0	175	182
Chromium (Cr)	µg/L	0.03	0.3		0.516	1.34	1.12
Cobalt (Co)	µg/L	0.001	0.01		0.0459	0.453	0.351
Copper (Cu)	µg/L	0.05	0.1	7.0-8.7	1.23	3.77	3.55
Iron (Fe)	µg/L	2	4		<2	118	131
Lead (Pb)	µg/L	0.001	0.006		0.0769	0.0802	0.0311
Magnesium (Mg)	mg/L	0.0001	0.0005		102	475	498
Manganese (Mn)	µg/L	0.003	0.03		3.98	0.654	1.28
Molybdenum (Mo)	µg/L	0.001	0.008		1.02	4.39	4.48
Nickel (Ni)	µg/L	0.005	0.06		<0.005	0.077	0.982
Potassium (K)	µg/L	2	5		34500	158000	166000
Selenium (Se)	µg/L	0.1	0.3		N/A	N/A	N/A
Silver (Ag)	µg/L	0.0005	0.005		0.0038	0.0091	0.0061
Sodium (Na)	µg/L	2	6	0.005	889000	3920000	4200000
Strontium (Sr)	µg/L	0.004	0.008		697	3170	3400
Uranium (U)	µg/L	0.0001	0.003		0.186	1.76	1.37
Vanadium (V)	µg/L	0.005	0.05		8.510	<0.01	<0.01
Zinc (Zn)	µg/L	0.05	0.2		1.30	3.83	4.34
Nutrients							
Phosphorus, Total	mg/L	0.001	0.008	5.79	0.014	0.009	0.018
Ammonia-N	mg/L	0.001	0.02		0.010	0.034	0.020
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.10	0.04	0.04
Dissolved Organic Carbon	mg/L	0.2	0.6		N/A	N/A	N/A
Carbon Part	mg/L	0.02	0.2		0.61	0.14	0.14
TOC (Calculated)	mg/L	0.8			N/A	N/A	N/A
Fluoride (F)	mg/L	0.01	0.04		0.15	N/A	0.46
Sulphide	mg/L	0.001	0.004		0.001	0.001	<0.001
Total Suspended Solids	mg/L	1	10		13	1.0	3.0
Routine Analysis - low level							
Chloride (Cl)	mg/L	0.3	0.6	7.0-8.7	1750	N/A	1080
Nitrate+Nitrite-N	mg/L	0.005	0.02		<0.005	N/A	0.007
Nitrite-N	mg/L	0.001	0.016		<0.001	N/A	<0.001
Nitrate-N (calculated)	mg/L				<0.005	N/A	0.0065
Sulphate (SO4)	mg/L	3	6		201	N/A	1290
pH, Conductivity and Alkalinity							
pH	pH	N/A	N/A	7.0-8.7	7.23	N/A	7.77
Conductivity (EC)	µS/cm	0.1	2		5910	N/A	25600
Bicarbonate (HCO3)	mg/L	1	5		32	N/A	79
Alkalinity, Total	mgCaCO3/L	1	4		26.3	N/A	64.6
P- Alkalinity	mgCaCO3/L	1	4		<1	N/A	<1
Ion Balance Calculation							
Ion Balance		N/A	N/A	0.005	1.00	N/A	1.43
Anions	meq/L	N/A	N/A		54.2	N/A	58.5
Cations	meq/L	N/A	N/A		54.1	N/A	83.8
TDS (Calculated)	mg/L	9			3140	N/A	3920
Hardness, Total	mgCaCO3/L	0.01	0.25		508	N/A	2600
ICP metals for routine water							
Calcium (Ca)	mg/L	0.004	0.1	0.005	36.9	N/A	182
Potassium (K)	mg/L	0.1	0.1		36.9	N/A	178
Magnesium (Mg)	mg/L	0.0001	0.0005		101	N/A	520
Sodium (Na)	mg/L	0.5	1.5		989	N/A	630
Other							
Color, True	TCU	1	2	0.005	12	10	15
Cyanide, Total	mg/L	0.001	0.004		0.002	0.026	0.062
ARC Sample ID					0502260	0502635	0503203
Radium 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005
ETL Sample ID					L293440-17	L309418-5	L319705-5

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit

CWQG = Canadian Water Quality Guidelines for marine (2005)

Appendix B2. QA/QC Data

Field Blank (Roberts Outflow)

Field Blank (Tail Lake)

Parameter	Unit	MRV	MDL	CWQG	29-Jun-05	5-Aug-05	31-Aug-05	20-Jul-05	21-Aug-05	16-Sep-05
Total Metals										
Aluminum (Al)	µg/L	0.5	2	100	0.740	0.703	4.13	1.15	<0.5	<0.5
Antimony (Sb)	µg/L	0.0005	0.001		0.0015	0.0010	0.0010	0.0076	<0.0005	0.0007
Arsenic (As)	µg/L	0.002	0.04	5	0.0141	0.0071	0.0084	0.0344	<0.0074	<0.002
Barium (Ba)	µg/L	0.004	0.1		0.0348	0.0148	0.0230	0.0465	0.0149	0.0215
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Bismuth (Bi)	µg/L	0.001	0.01		<0.001	<0.001	<0.001	0.0027	<0.001	<0.001
Boron (B)	µg/L	0.05	0.8		0.170	0.312	1.33	0.806	0.377	<0.05
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		0.0277	0.0077	0.0208	0.0522	<0.004	0.0257
Chromium (Cr)	µg/L	0.03	0.3		<0.03	0.134	0.577	<0.04	0.090	0.052
Cobalt (Co)	µg/L	0.001	0.01		<0.001	0.0021	<0.001	<0.001	<0.001	<0.001
Copper (Cu)	µg/L	0.05	0.1	2	<0.05	0.241	<0.05	<0.05	<0.05	<0.05
Iron (Fe)	µg/L	2	4	300	<2	<2	2.14	<2	<2	<2
Lead (Pb)	µg/L	0.001	0.006	1	0.0319	0.0031	0.0074	0.0072	0.0067	0.0078
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0010	0.0004	0.0007	0.0075	0.0006	0.0004
Manganese (Mn)	µg/L	0.003	0.03		0.0425	0.0410	<0.003	0.137	<0.003	<0.003
Mercury (Hg)	ng/L	0.6	1.2	100	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Molybdenum (Mo)	µg/L	0.001	0.0080	73	<0.001	<0.001	0.0802	<0.001	0.0110	0.0182
Nickel (Ni)	µg/L	0.005	0.06	25	0.157	<0.005	<0.005	<0.005	0.0055	0.0254
Potassium (K)	µg/L	2	5		<2	<2	2.69	<2	<2	<2
Selenium (Se)	µg/L	0.1	0.3	1	<0.1	<0.1	<0.1	<0.1	0.118	<0.1
Silver (Ag)	µg/L	0.0005	0.005	0.1	<0.0005	<0.0005	0.0022	0.0011	0.0006	0.0007
Sodium (Na)	µg/L	2	6		2.1	<2	3.2	<2	<2	<2
Strontium (Sr)	µg/L	0.004	0.008		0.108	0.0255	0.0547	0.0813	<0.004	0.0448
Thallium (Tl)	µg/L	0.0003	0.003		0.0887	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Tin (Sn)	µg/L	0.03	0.07		0.0355	0.0407	<0.03	<0.03	0.0468	<0.03
Uranium (U)	µg/L	0.0001	0.003		0.0004	0.0005	0.0002	0.0008	0.0002	0.0001
Vanadium (V)	µg/L	0.005	0.05		0.069	0.037	0.056	<0.005	0.018	0.031
Zinc (Zn)	µg/L	0.1	0.2	30	0.790	0.405	0.615	0.450	0.530	0.340
Dissolved Metals										
Aluminum (Al)	µg/L	0.2	1		0.404	<0.2	<0.2	<0.2	<0.2	<0.2
Antimony (Sb)	µg/L	0.0005	0.001		0.0015	0.0010	0.0010	0.0076	<0.0005	0.0007
Arsenic (As)	µg/L	0.002	0.04		0.0141	0.0069	0.0082	0.0333	0.0074	<0.002
Barium (Ba)	µg/L	0.004	0.1		0.0341	<0.004	0.0079	0.0454	0.0121	0.0087
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron (B)	µg/L	0.03	0.08		0.080	0.294	0.532	0.444	0.371	<0.03
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium (Ca)	mg/L	0.004	0.1		0.0272	0.0254	0.0126	0.0499	<0.004	0.0139
Chromium (Cr)	µg/L	0.03	0.3		<0.03	0.131	0.199	<0.04	0.0717	0.0516
Cobalt (Co)	µg/L	0.001	0.01		<0.001	0.0021	<0.001	<0.001	<0.001	<0.001
Copper (Cu)	µg/L	0.05	0.1		<0.05	0.241	<0.05	<0.05	<0.05	<0.05
Iron (Fe)	µg/L	2	4		<2	<2	<2	<2	<2	<2
Lead (Pb)	µg/L	0.001	0.006		0.0296	0.0031	0.0014	0.0071	0.0046	0.0039
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0007	0.0004	0.0007	0.0072	0.0005	0.0003
Manganese (Mn)	µg/L	0.003	0.03		0.037	0.031	<0.003	0.130	<0.003	<0.003
Molybdenum (Mo)	µg/L	0.001	0.008		<0.001	<0.001	0.0065	<0.001	0.0015	0.0153
Nickel (Ni)	µg/L	0.005	0.06		0.144	<0.005	<0.005	<0.005	<0.005	0.0151
Potassium (K)	µg/L	2	5		<2	<2	2.07	<2	<2	<2
Selenium (Se)	µg/L	0.1	0.3		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	0.0012	<0.0005	<0.0005
Sodium (Na)	µg/L	2	6		<2	<2	2.9	<2	<2	<2
Strontium (Sr)	µg/L	0.004	0.008		0.0940	0.0235	0.0546	0.0754	0.0610	0.0447
Uranium (U)	µg/L	0.0001	0.003		0.0001	0.0002	0.0001	0.0006	0.0001	0.0001
Vanadium (V)	µg/L	0.005	0.05		0.069	0.037	0.056	<0.005	0.018	0.031
Zinc (Zn)	µg/L	0.05	0.2		0.570	0.368	0.615	0.410	0.260	0.280
Nutrients										
Phosphorus, Total	mg/L	0.001	0.008	5.79	<0.001	0.002	0.001	0.010	0.002	0.003
Ammonia-N	mg/L	0.001	0.02		0.002	0.001	0.003	0.006	0.012	0.003
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.02	0.02	<0.01	0.02	<0.01	<0.01
Dissolved Organic Carbon	mg/L	0.2	0.6		0.6	<0.2	<0.2	0.2	<0.2	<0.2
Carbon Part	mg/L	0.02	0.2		<0.02	0.11	<0.02	0.06	0.05	0.54
TOC (Calculated)	mg/L	0.8			0.61	0.21	0.11	0.26	0.15	0.64
Fluoride (F)	mg/L	0.01	0.04		<0.01	<0.01	0.01	<0.01	0.02	0.03
Sulphide	mg/L	0.001	0.004		<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Total Suspended Solids	mg/L	1	10		<1	<1	<1	<1	<1	<1
Routine Analysis - low level										
Chloride (Cl)	mg/L	0.3	0.6		<0.3	<0.3	0.4	<0.3	<0.3	<0.3
Nitrate+Nitrite-N	mg/L	0.005	0.02	0.06	0.045	<0.005	<0.005	<0.005	<0.005	0.006
Nitrite-N	mg/L	0.001	0.016		<0.001	<0.001	<0.001	<0.001	<0.001	0.0026
Nitrate-N (calculated)	mg/L				0.0445	<0.005	<0.005	<0.005	<0.005	<0.005
Sulphate (SO4)	mg/L	3	6		<3	<3	<3	<3	<3	<3
pH, Conductivity and Alkalinity										
pH	pH	N/A	N/A	6.5-9.0	5.89	5.61	5.48	5.61	5.93	5.74
Conductivity (EC)	µS/cm	0.1	2		1.1	0.8	1.3	2.0	1.5	1.3
Bicarbonate (HCO3)	mg/L	1	5		3	2	3	2	3	3
Alkalinity, Total	mgCaCO3/L	1	4		2.2	2.0	2.2	1.9	2.6	2.5
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1
Ion Balance Calculation										
Ion Balance		N/A	N/A		0.25	0.26	0.25	0.30	0.25	0.24
Anions	meq/L	N/A	N/A		0.09	0.09	0.10	0.09	0.10	0.10
Cations	meq/L	N/A	N/A		0.02	0.02	0.02	0.03	0.03	0.02
TDS (Calculated)	mg/L	9			4.3	3.9	4.3	4.0	4.4	4.3
Hardness, Total	mgCaCO3/L	0.01	0.25		0.05	0.02	0.06	0.17	0.08	0.06
ICP metals for routine water										
Calcium (Ca)	mg/L	0.004	0.1		0.020	0.006	0.023	0.056	<0.004	0.022
Potassium (K)	mg/L	0.1	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0006	0.0005	0.0015	0.0085	<0.0001	0.0002
Sodium (Na)	mg/L	0.5	1.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Other										
Color, True	TCU	1	2		<1	<1	<1	<1	10	<1
Cyanide, Total	mg/L	0.001	0.004		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ARC Sample ID					0501928	0502447	0503038	0502256	0502643	0503212
Radium 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ETL Sample ID					L293440-2	L301588-5	L315200-3	L293440-20	L309418-13	L319705-15

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit

CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. QA/QC Data

Equipment Blank at Little Roberts Replicate Samples at Roberts Lake (Top)

Parameter	Unit	MRV	MDL	CWQG	21-Jul-05	19-Aug-05	14-Sep-05	20-Jul-05			
								Replicate 1	Replicate 2	Mean	Std Dev
Total Metals											
Aluminum (Al)	µg/L	0.5	2	100	1.40	0.766	0.908	277	219	248	41.0
Antimony (Sb)	µg/L	0.0005	0.001		0.0042	<0.0005	0.0022	0.0150	0.0131	0.0141	0.001
Arsenic (As)	µg/L	0.002	0.04	5	<0.002	0.0081	<0.002	0.444	0.414	0.429	0.021
Barium (Ba)	µg/L	0.004	0.1		0.128	0.0201	0.0207	5.05	4.54	4.80	0.361
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	0.0116	0.0093	0.0104	0.002
Bismuth (Bi)	µg/L	0.001	0.01		0.0015	<0.001	<0.001	0.0096	0.0039	0.0067	0.004
Boron (B)	µg/L	0.05	0.8		0.661	0.199	1.07	25.2	26.2	25.7	0.707
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Calcium (Ca)	mg/L	0.004	0.1		0.138	0.0084	0.0274	4.86	4.91	4.89	0.035
Chromium (Cr)	µg/L	0.03	0.3		<0.04	0.058	<0.03	0.531	0.441	0.486	0.064
Cobalt (Co)	µg/L	0.001	0.01		<0.001	<0.001	<0.001	0.0697	0.0537	0.0617	0.011
Copper (Cu)	µg/L	0.05	0.1	2	<0.05	0.162	<0.05	1.36	1.97	1.67	0.431
Iron (Fe)	µg/L	2	4	300	<2	<2	<2	226	175	201	36.1
Lead (Pb)	µg/L	0.001	0.006	1	0.0099	0.0071	0.0064	0.246	0.231	0.239	0.011
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0027	0.0020	0.0171	6.24	6.32	6.28	0.057
Manganese (Mn)	µg/L	0.003	0.03		<0.003	0.0035	0.421	12.5	11.2	11.9	0.919
Mercury (Hg)	ng/L	0.6	1.2	100	<0.6	<0.6	<0.6	1.3	4.1	2.7	1.98
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.0021	0.0102	0.0091	0.184	0.198	0.191	0.010
Nickel (Ni)	µg/L	0.005	0.06	25	<0.005	0.0086	0.0189	0.476	0.474	0.475	0.001
Potassium (K)	µg/L	2	5		<2	<2	8.2	1910	1930	1920	14.1
Selenium (Se)	µg/L	0.1	0.3	1	<0.1	<0.1	<0.1	0.665	0.699	0.682	0.024
Silver (Ag)	µg/L	0.0005	0.005	0.1	0.0064	0.0009	<0.0005	0.0021	0.0019	0.0020	0.000
Sodium (Na)	µg/L	2	6		2.6	<2	129	31700	32400	32050	495
Strontium (Sr)	µg/L	0.004	0.008		0.303	0.0206	0.144	33.1	33.3	33.2	0.141
Thallium (Tl)	µg/L	0.0003	0.003		<0.0003	<0.0003	<0.0003	0.0029	0.0020	0.0025	0.001
Tin (Sn)	µg/L	0.03	0.07		0.700	0.180	2.21	11.0	3.26	7.13	5.47
Uranium (U)	µg/L	0.0001	0.003		0.0011	0.0004	0.0001	0.0477	0.0493	0.0485	0.001
Vanadium (V)	µg/L	0.005	0.05		<0.005	0.017	0.018	0.907	0.910	0.909	0.002
Zinc (Zn)	µg/L	0.1	0.2	30	0.850	0.330	1.51	2.30	0.978	1.639	0.935
Dissolved Metals											
Aluminum (Al)	µg/L	0.2	1		0.600	<0.2	<0.2	19.6	14.6	17.1	3.54
Antimony (Sb)	µg/L	0.0005	0.001		0.0033	<0.0005	0.0021	0.0159	0.0125	0.0142	0.002
Arsenic (As)	µg/L	0.002	0.04		<0.002	0.0024	<0.002	0.358	0.324	0.341	0.024
Barium (Ba)	µg/L	0.004	0.1		0.106	0.0209	0.0207	2.67	2.40	2.54	0.191
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-
Boron (B)	µg/L	0.03	0.08		<0.03	0.148	<0.03	26.0	25.1	25.6	0.636
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Calcium (Ca)	mg/L	0.004	0.1		0.123	0.0084	0.0248	4.82	4.60	4.71	0.156
Chromium (Cr)	µg/L	0.03	0.3		<0.04	0.049	<0.03	0.293	0.321	0.307	0.020
Cobalt (Co)	µg/L	0.001	0.01		<0.001	<0.001	<0.001	0.0114	<0.001	0.0060	-
Copper (Cu)	µg/L	0.05	0.1		<0.05	0.162	<0.05	1.28	1.28	1.28	0.000
Iron (Fe)	µg/L	2	4		<2	<2	<2	36.2	11.6	23.9	17.4
Lead (Pb)	µg/L	0.001	0.006		<0.001	0.0071	0.0053	0.198	0.166	0.182	0.023
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0027	0.0018	0.0150	6.04	5.85	5.95	0.134
Manganese (Mn)	µg/L	0.003	0.03		<0.003	0.0032	0.418	11.4	1.04	6.22	7.33
Molybdenum (Mo)	µg/L	0.001	0.008		0.0021	0.0073	0.0091	0.165	0.203	0.184	0.027
Nickel (Ni)	µg/L	0.005	0.06		<0.005	<0.005	0.0188	0.343	0.234	0.289	0.077
Potassium (K)	µg/L	2	5		<2	<2	7.5	1790	1740	1765	35.4
Selenium (Se)	µg/L	0.1	0.3		<0.1	<0.1	<0.1	0.630	0.509	0.570	0.086
Silver (Ag)	µg/L	0.0005	0.005		0.0011	0.0009	<0.0005	0.0015	0.0013	0.0014	0.000
Sodium (Na)	µg/L	2	6		<2	<2	129	31600	30500	31050	778
Strontium (Sr)	µg/L	0.004	0.008		0.303	0.0189	0.140	32.7	32.8	32.8	0.071
Uranium (U)	µg/L	0.0001	0.003		0.0001	<0.0001	<0.0001	0.0352	0.0338	0.0345	0.001
Vanadium (V)	µg/L	0.005	0.05		<0.005	0.0167	0.0172	0.521	0.390	0.456	0.093
Zinc (Zn)	µg/L	0.05	0.2		0.490	0.291	1.32	2.31	0.914	1.61	0.987
Nutrients											
Phosphorus, Total	mg/L	0.001	0.008	5.79	0.005	0.001	<0.001	0.019	0.019	0.019	0.000
Ammonia-N	mg/L	0.001	0.02		0.007	0.005	0.010	0.023	0.008	0.015	0.011
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.03	<0.01	<0.01	0.30	0.30	0.30	0.000
Dissolved Organic Carbon	mg/L	0.2	0.6		<0.2	<0.2	<0.2	3.8	3.8	3.8	0.000
Carbon Part	mg/L	0.02	0.2		0.08	0.04	<0.02	0.39	0.39	0.39	0.000
TOC (Calculated)	mg/L	0.8			0.28	0.14	0.11	4.19	4.19	4.19	0.000
Fluoride (F)	mg/L	0.01	0.04		<0.01	<0.01	0.01	0.05	0.05	0.05	0.001
Sulphide	mg/L	0.001	0.004		<0.001	N/A	<0.001	<0.001	0.001	<0.001	-
Total Suspended Solids	mg/L	1	10		<1	<1	<1	4.0	3.3	3.7	0.495
Routine Analysis - low level											
Chloride (Cl)	mg/L	0.3	0.6		0.4	<0.3	0.9	55.6	55.9	55.7	0.212
Nitrate+Nitrite-N	mg/L	0.005	0.02	0.06	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	-
Nitrite-N	mg/L	0.001	0.016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-
Sulphate (SO4)	mg/L	3	6		<3	<3	<3	5.7	4.8	5.2	0.636
pH, Conductivity and Alkalinity											
pH	pH	N/A	N/A	6.5-9.0	5.84	5.53	5.65	7.15	7.10	7.12	0.035
Conductivity (EC)	µS/cm	0.1	2		1.8	1.9	3.1	233	234	234	0.707
Bicarbonate (HCO3)	mg/L	1	5		3	3	3	24	24	24	0.000
Alkalinity, Total	mgCaCO3/L	1	4		2.1	2.2	2.5	19.8	19.8	19.8	0.014
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	<1	<1	<1	-
Ion Balance Calculation											
Ion Balance		N/A	N/A		0.32	0.25	0.70	0.93	0.92	0.93	0.007
Anions	meq/L	N/A	N/A		0.09	0.09	0.12	2.08	2.07	2.08	0.007
Cations	meq/L	N/A	N/A		0.03	0.02	0.08	1.93	1.91	1.92	0.014
TDS (Calculated)	mg/L	9			4.3	4.1	7.1	113	112	113	0.707
Hardness, Total	mgCaCO3/L	0.01	0.25		0.36	0.03	0.13	33.2	32.4	32.8	0.566
ICP metals for routine water											
Calcium (Ca)	mg/L	0.004	0.1		0.138	0.009	0.027	4.90	4.88	4.89	0.014
Potassium (K)	mg/L	0.1	0.1		<0.1	<0.1	2.1	1.79	1.80	1.8	0.007
Magnesium (Mg)	mg/L	0.0001	0.0005		0.0038	0.0014	0.0145	5.10	4.91	5.00	0.134
Sodium (Na)	mg/L	0.5	1.5		<0.5	<0.5	0.6	28.0	27.9	28.0	0.035
Other											
Color, True	TCU	1	2		<1	<1	<1	14	15	15	0.707
Cyanide, Total	mg/L	0.001	0.004		<0.001	<0.001	<0.001	<0.001	0.0010	<0.001	-
ARC Sample ID					0502258	0502645	0503202	0502254	0502257		
Radium 226	Bq/L	0.005	0.005		<0.005	N/A	<0.005	<0.005	<0.005	<0.005	-
ETL Sample ID					L293440-19	-	L319705-6	L293440-14	L293440-18		

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit

CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

Appendix B2. QA/QC Data

Replicate Samples at Roberts Lake (Top)

Parameter	Unit	MRV	MDL	CWQG	16-Aug-05				13-Sep-05			
					Replicate 1	Replicate 2	Mean	Std Dev	Replicate 1	Replicate 2	Mean	Std Dev
Total Metals												
Aluminum (Al)	µg/L	0.5	2	100	61.2	66.3	63.8	3.61	141	138	140	2.12
Antimony (Sb)	µg/L	0.0005	0.001		0.0121	0.0129	0.0125	0.001	0.0164	0.0152	0.0158	0.001
Arsenic (As)	µg/L	0.002	0.04	5	0.342	0.368	0.355	0.018	0.362	0.382	0.372	0.014
Barium (Ba)	µg/L	0.004	0.1		2.76	2.85	2.81	0.064	3.68	3.58	3.63	0.071
Beryllium (Be)	µg/L	0.003	0.01		<0.003	0.0046	0.0046	-	0.0066	0.0080	0.0073	0.001
Bismuth (Bi)	µg/L	0.001	0.01		0.0028	0.0021	0.0024	0.001	0.0044	0.0025	0.0035	0.001
Boron (B)	µg/L	0.05	0.8		24.1	25.3	24.7	0.85	22.7	22.3	22.5	0.283
Cadmium (Cd)	µg/L	0.002	0.006	0.02	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	-
Calcium (Ca)	mg/L	0.004	0.1		5.30	5.45	5.38	0.11	6.28	6.00	6.14	0.198
Chromium (Cr)	µg/L	0.03	0.3		0.373	0.341	0.357	0.023	0.232	0.1980	0.215	0.024
Cobalt (Co)	µg/L	0.001	0.01		0.0286	0.0305	0.0296	0.001	0.0495	0.0500	0.0498	0.000
Copper (Cu)	µg/L	0.05	0.1	2	1.47	1.47	1.47	0.000	1.88	1.67	1.78	0.148
Iron (Fe)	µg/L	2	4	300	82.9	88.3	85.6	3.82	124	124	124	0.000
Lead (Pb)	µg/L	0.001	0.006	1	0.0316	0.0287	0.0302	0.002	0.0600	0.0695	0.0648	0.007
Magnesium (Mg)	mg/L	0.0001	0.0005		5.61	5.80	5.71	0.13	7.53	7.16	7.35	0.262
Manganese (Mn)	µg/L	0.003	0.03		5.48	5.69	5.59	0.15	6.09	6.02	6.06	0.049
Mercury (Hg)	ng/L	0.6	1.2	100	<0.6	0.7	<0.6	-	<0.6	<0.6	<0.6	-
Molybdenum (Mo)	µg/L	0.001	0.0080	73	0.176	0.180	0.178	0.003	0.239	0.195	0.217	0.031
Nickel (Ni)	µg/L	0.005	0.06	25	0.422	0.451	0.437	0.021	0.529	0.599	0.564	0.049
Potassium (K)	µg/L	2	5		1980	2040	2010	42.4	2460	2340	2400	84.9
Selenium (Se)	µg/L	0.1	0.3	1	0.699	0.737	0.718	0.027	0.566	0.539	0.553	0.019
Silver (Ag)	µg/L	0.0005	0.005	0.1	0.0010	0.0007	0.0008	0.000	0.0011	0.0010	0.0011	0.000
Sodium (Na)	µg/L	2	6		29800	31300	30550	1061	39200	37800	38500	990
Strontium (Sr)	µg/L	0.004	0.008		35.8	37.8	36.8	1.41	38.8	38.1	38.5	0.495
Thallium (Tl)	µg/L	0.0003	0.003		0.0015	0.0010	0.0013	0.000	0.0033	0.0031	0.0032	0.000
Tin (Sn)	µg/L	0.03	0.07		12.0	9.26	10.6	1.94	28.3	1.39	14.8	19.0
Uranium (U)	µg/L	0.0001	0.003		0.0490	0.0483	0.0487	0.000	0.0551	0.0526	0.0539	0.002
Vanadium (V)	µg/L	0.005	0.05		0.132	0.160	0.146	0.020	0.219	0.238	0.229	0.013
Zinc (Zn)	µg/L	0.1	0.2	30	0.907	0.991	0.949	0.059	1.52	1.45	1.49	0.049
Dissolved Metals												
Aluminum (Al)	µg/L	0.2	1		6.73	6.42	6.58	0.22	11.1	11.5	11.3	0.283
Antimony (Sb)	µg/L	0.0005	0.001		0.0124	0.0127	0.0126	0.000	0.0162	0.0147	0.0155	0.001
Arsenic (As)	µg/L	0.002	0.04		0.308	0.312	0.310	0.003	0.305	0.311	0.308	0.004
Barium (Ba)	µg/L	0.004	0.1		2.05	1.95	2.00	0.071	2.16	2.09	2.13	0.049
Beryllium (Be)	µg/L	0.003	0.01		<0.003	<0.003	<0.003	-	<0.003	<0.003	<0.003	-
Boron (B)	µg/L	0.03	0.08		21.7	21.4	21.6	0.21	20.8	20.4	20.6	0.283
Cadmium (Cd)	µg/L	0.002	0.006		<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	-
Calcium (Ca)	mg/L	0.004	0.1		5.26	5.10	5.18	0.11	5.74	5.63	5.69	0.078
Chromium (Cr)	µg/L	0.03	0.3		0.368	0.334	0.351	0.024	0.103	0.0977	0.100	0.004
Cobalt (Co)	µg/L	0.001	0.01		0.0098	0.0085	0.0091	0.001	0.0074	0.0101	0.0088	0.002
Copper (Cu)	µg/L	0.05	0.1		1.47	1.41	1.44	0.042	1.59	1.47	1.53	0.085
Iron (Fe)	µg/L	2	4		9.90	11.4	10.7	1.06	<2	<2	<2	-
Lead (Pb)	µg/L	0.001	0.006		0.0152	0.0144	0.0148	0.001	0.0111	0.0112	0.0112	0.000
Magnesium (Mg)	mg/L	0.0001	0.0005		5.62	5.46	5.54	0.11	6.92	6.79	6.86	0.092
Manganese (Mn)	µg/L	0.003	0.03		0.086	0.075	0.080	0.007	0.530	0.430	0.48	0.071
Molybdenum (Mo)	µg/L	0.001	0.008		0.171	0.172	0.172	0.001	0.182	0.167	0.175	0.011
Nickel (Ni)	µg/L	0.005	0.06		0.376	0.344	0.360	0.023	0.320	0.343	0.332	0.016
Potassium (K)	µg/L	2	5		1900	1910	1905	7.07	2180	2160	2170	14.1
Selenium (Se)	µg/L	0.1	0.3		0.632	0.732	0.682	0.071	0.483	0.535	0.509	0.037
Silver (Ag)	µg/L	0.0005	0.005		<0.0005	<0.0005	<0.0005	-	<0.0005	<0.0005	<0.0005	-
Sodium (Na)	µg/L	2	6		29700	29600	29650	70.7	36700	36100	36400	424
Strontium (Sr)	µg/L	0.004	0.008		35.6	34.7	35.2	0.64	38.6	36.7	37.7	1.34
Uranium (U)	µg/L	0.0001	0.003		0.0285	0.0232	0.0259	0.004	0.0320	0.0281	0.0301	0.003
Vanadium (V)	µg/L	0.005	0.05		0.108	0.081	0.095	0.019	0.064	0.054	0.059	0.007
Zinc (Zn)	µg/L	0.05	0.2		0.901	0.990	0.946	0.063	1.26	0.866	1.06	0.279
Nutrients												
Phosphorus, Total	mg/L	0.001	0.008	5.79	0.015	0.015	0.015	0.000	0.018	0.016	0.017	0.001
Ammonia-N	mg/L	0.001	0.02		0.004	0.008	0.006	0.003	0.038	<0.001	0.019	-
Total Kjeldahl Nitrogen	mg/L	0.01	0.05		0.28	0.27	0.28	0.007	0.40	0.37	0.39	0.021
Dissolved Organic Carbon	mg/L	0.2	0.6		4.0	3.8	3.9	0.14	4.5	6.9	5.7	1.70
Carbon Part	mg/L	0.02	0.2		0.33	0.34	0.34	0.007	0.82	0.93	0.88	0.078
TOC (Calculated)	mg/L	0.8			4.33	4.14	4.24	0.15	5.32	7.83	6.58	1.77
Fluoride (F)	mg/L	0.01	0.04		0.05	0.05	0.05	0.000	0.050	0.055	0.05	0.004
Sulphide	mg/L	0.001	0.004		0.001	0.001	0.001	0.000	<0.001	<0.001	<0.001	-
Total Suspended Solids	mg/L	1	10		3.0	2.3	2.7	0.49	3.3	3.3	3.3	0.000
Routine Analysis - low level												
Chloride (Cl)	mg/L	0.3	0.6		56.1	55.9	56.0	0.14	62.4	62.7	62.5	0.184
Nitrate+Nitrite-N	mg/L	0.005	0.02	0.06	0.005	<0.005	<0.005	-	<0.005	0.005	0.005	-
Nitrite-N	mg/L	0.001	0.016		<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-
Nitrate-N (calculated)	mg/L				<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	-
Sulphate (SO4)	mg/L	3	6		4.0	4.0	4.0	0.000	8.0	6.0	7.0	1.41
pH, Conductivity and Alkalinity												
pH	pH	N/A	N/A	6.5-9.0	7.45	7.48	7.47	0.021	7.38	7.41	7.40	0.021
Conductivity (EC)	µS/cm	0.1	2		231	231	231	0.000	256	257	257	0.71
Bicarbonate (HCO3)	mg/L	1	5		26	26	26	0.000	27	27	27	0.000
Alkalinity, Total	mgCaCO3/L	1	4		21.5	21.7	21.6	0.16	22.3	22.2	22.3	0.085
P- Alkalinity	mgCaCO3/L	1	4		<1	<1	<1	-	<1	<1	<1	-
Ion Balance Calculation												
Ion Balance		N/A	N/A		0.96	0.97	0.97	0.007	0.97	0.98	0.98	0.007
Anions	meq/L	N/A	N/A		2.10	2.10	2.10	0.000	2.37	2.34	2.36	0.021
Cations	meq/L	N/A	N/A		2.01	2.03	2.02	0.014	2.29	2.29	2.29	0.000
TDS (Calculated)	mg/L	9			115	115	115	0.000	131	129	130	1.41
Hardness, Total	mgCaCO3/L	0.01	0.25		36.3	37.5	36.9	0.85	38.8	39.4	39.1	0.424
ICP metals for routine water												
Calcium (Ca)	mg/L	0.004	0.1		5.27	5.45	5.36	0.13	5.57	5.59	5.58	0.014
Potassium (K)	mg/L	0.1	0.1		2.0	2.1	2.1	0.071	2.0	2.0	2.0	0.021
Magnesium (Mg)	mg/L	0.0001	0.0005		5.61	5.80	5.71	0.13	6.05	6.17	6.11	0.085
Sodium (Na)	mg/L	0.5	1.5		28.4	28.3	28.4	0.071	33.6	33.4	33.5	0.163
Other												
Color, True	TCU	1	2		20	14	17	4.24	14	14	14	0.000
Cyanide, Total	mg/L	0.001	0.004		N/A	0.001	0.001	-	<0.001	<0.001	<0.001	-
ARC Sample ID					0502631	0502633			0503199	0503201		
Radium 226	Bq/L	0.005	0.005		<0.005	<0.005	<0.005	-	<0.005	0.006	<0.005	-
ETL Sample ID					L309418-1	L309418-3			L319705-2	L319705-4		

Note: MRV = Minimum Reported Value; MDL = Method Detection Limit

CWQG = Canadian Water Quality Guidelines for freshwater (CCME 2005)

APPENDIX C

FISH DATA

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1	ARCH	135	20	0.81				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
2	ARCH	137	25	0.97				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
3	ARCH	165	40	0.89				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
4	ARCH	133	20	0.85				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
5	ARCH	179	60	1.05				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
6	ARCH	151	30	0.87				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
7	ARCH	127	20	0.98				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
8	ARCH	133	25	1.06				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
9	ARCH	112	15	1.07				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
10	ARCH	102	10	0.94				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
11	ARCH	128	20	0.95				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
12	ARCH	112	15	1.07				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
13	ARCH	142	30	1.05				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
14	ARCH	109	15	1.16				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
15	ARCH	101	10	0.97				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
16	ARCH	63						EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			Photos 101-006, 7
17	ARCH	158	35	0.89				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
18	ARCH	101	10	0.97				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			Photo 101-0008
19	ARCH	114	15	1.01				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
20	ARCH	116	15	0.96				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			
21	ARCH	105	10	0.86				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
22	ARCH	95	10	1.17				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			
23	ARCH	88	5	0.73				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
24	ARCH	95	10	1.17				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
25	ARCH	82	10	1.81				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
26	ARCH	104	15	1.33				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			
27	ARCH	76	5	1.14				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
28	ARCH	61						EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
29	ARCH	93	10	1.24				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			
30	ARCH	95	5	0.58				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
31	ARCH	72	5	1.34				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
32	ARCH	73						EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
33	ARCH	100	10	1.00				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	1			
34	ARCH	71	5	1.40				EF		04-Aug-05	ROEF-01	Roberts Outflow	Left Pelvic Fin Clip, SC	0			
35	ARCH	703	4090	1.18	F	G	4257	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		0	2005		Gravid
36	LKTR	872	7210	1.09		G	4258	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		0	2005		Gravid
37	LKTR	784	5325	1.11		G	4259	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		0	2005		Gravid
38	LKTR	649	3670	1.34		G	4260	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		1	2004		Gravid
39	LKTR	648	3240	1.19		G	4261	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		0	2005		Gravid
40	LKTR	578	2340	1.21		G	4262	EF	1	04-Aug-05	ROEF-02	Roberts Outflow		0	2005		Gravid
41	LKTR	789	4710	0.96		G	4263	TRAP	1	04-Aug-05	TD	Roberts Outflow		0	2005		Gravid
42	LKTR	519	1780	1.27		B	45	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2000		Rescan tag/ 1655g after food/ photo/ fish removed (330 mm)
43	ARCH	845			M	G	3261	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture/ photo/ Emaciated/ Left eye blind/ Found dead 05-Aug-05
44	LKTR	507	1500	1.15		W	2149	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2002		Recapture/ Gravid
45	LKTR	470	1200	1.16		G	3063	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2003		Recapture
46	ARCH	782	4980	1.04	F	G	4264	TRAP	1	04-Aug-05	TD	Roberts Outflow		0	2005	no	Gravid
47	LKTR	484	1340	1.18		G	4265	TRAP	1	04-Aug-05	TD	Roberts Outflow		0	2005	no	Gravid
48	LKTR	555	2045	1.20		G	4062	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2004		Gravid
49	LKTR	496	1305	1.07		G	3337	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2003		
50	LKTR	412	730	1.04		G	3308	TRAP	1	04-Aug-05	TD	Roberts Outflow		2	2003		
51	LKTR	547	1935	1.18		G	4266	TRAP	1	04-Aug-05	TD	Roberts Outflow		0	2005		
52	ARCH	693	2560	0.77	F	G	3199	TRAP	2	05-Aug-05	TD	Roberts Outflow		2	2003		Recapture/ Skin condition on peduncle
53	ARCH	603	2000	0.91	F	G	3226	TRAP	2	05-Aug-05	TD	Roberts Outflow		2	2003		Recapture
54	LKTR	582	2190	1.11		G	4267	TRAP	2	05-Aug-05	TD	Roberts Outflow		0	2005		
55	LKTR	414	925	1.30		G	4036	TRAP	2	05-Aug-05	TD	Roberts Outflow		2	2004		Recapture/ Gravid
56	LKTR	434	920	1.13		G	4268	TRAP	2	05-Aug-05	TD	Roberts Outflow		0	2005		Gravid
57	LKTR	555	2045	1.20		G	4062	TRAP	2	05-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture from 04-Aug-05
58	LKTR	412	730	1.04		G	3308	TRAP	2	05-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture from 04-Aug-05
59	LKTR	537	1955	1.26		G	4269	TRAP	2	05-Aug-05	TU	Roberts Outflow		0	2005	up	

Appendix C1. Data for individual fish capruted in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
60	ARCH	782	5510	1.15	F	G	4270	TRAP	3	06-Aug-05	TD	Roberts Outflow		2	2005		
61	LKTR	686	2275	0.70		G	4271	TRAP	3	06-Aug-05	TD	Roberts Outflow		2	2005	no	Gravid /Scar on right side of peduncle
62	ARCH	603	2000	0.91	F	G	3226	TRAP	3	06-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
63	LKTR	397	750	1.20		G	4272	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005	no	Scar near anal fin-Tight
64	ARCH	804			F	G	4273	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Photos 119-120
65	LKTR	466	1110	1.10		G	4274	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005	no	Tight
66	LKTR	446	985	1.11		G	4275	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Tight
67	LKTR	553	2670	1.58		G	4276	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Fat, Healthy, Tight Photo 121 of SFCD, Saffron Codtail in mouth
68	LKTR	511	1905	1.43		G	4277	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005	no	Tight
69	LKTR	574	1870	0.99		G	4278	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Tight
70	ARCH	463	1090	1.10		G	4101	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004		Recapture
71	LKTR	424	850	1.12		G	4279	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Tight
72	LKTR	609	2460	1.09		G	4280	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Tight
73	LKTR	421	910	1.22		G	4067	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005	no	Recapture Tight
74	ARCH	616	2285	0.98	F	G	4218	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004	no	
75	ARCH	787	4845	0.99	F	G	4282	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005	no	
76	LKTR	434	915	1.12		G	4035	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004		Recapture Tight
77	LKTR	508	1735	1.32		G	4283	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2005		Tight
78	LKTR	507	1620	1.24		G	4053	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight
79	LKTR	436	935	1.13		G	4054	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight
80	LKTR	468	985	0.96		G	4052	TRAP	4	07-Aug-05	TD	Roberts Outflow		2	2004		Recapture Tight
81	LKTR	434	920	1.13		G	4268	TRAP	4	07-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
82	ARCH	693	2560	0.77	F	G	3199	TRAP	4	07-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
83	LKTR	448	1095	1.22		B	23	TRAP	5	08-Aug-05	TD	Roberts Outflow		2	2000		Recapture Tight
84	LKTR	474	1245	1.17		G	4098	TRAP	5	08-Aug-05	TD	Roberts Outflow		2	2004		Recapture Tight
85	LKTR	425	885	1.15		W	2232	TRAP	5	08-Aug-05	TD	Roberts Outflow		2	2002	no	2002 Recapture Tight
86	LKTR	547	1935	1.18		G	4266	TRAP	5	08-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
87	LKTR	507	1500	1.15		W	2149	TRAP	5	08-Aug-05	TU	Roberts Outflow		2	2002	yes	Recapture
88	LKTR	424	850	1.12		G	4279	TRAP	6	08-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
89	SFCD	406	420	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
90	SFCD	334	235	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
91	SFCD	356	280	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
92	SFCD	352	305	0.70				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
93	SFCD	319	205	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
94	SFCD	197	45	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
95	SFCD	216	60	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
96	SFCD	197	70	0.92				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
97	SFCD	261	125	0.70				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
98	SFCD	274	125	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
99	SFCD	143	15	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
100	SFCD	163	25	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
101	SFCD	199	50	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
102	SFCD	328	235	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
103	SFCD	346	270	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
104	SFCD	363	340	0.71				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
105	SFCD	315	195	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
106	SFCD	248	95	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
107	SFCD	200	45	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
108	SFCD	234	80	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
109	SFCD	207	55	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
110	SFCD	154						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
111	SFCD	310	170	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
112	SFCD	316	195	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
113	SFCD	232	80	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
114	SFCD	211	70	0.75				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
115	SFCD	312	175	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
116	SFCD	241	65	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
117	SFCD	266	100	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
118	SFCD	297	165	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
119	SFCD	257	80	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
120	SFCD	238	75	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
121	SFCD	354	275	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
122	SFCD	309	200	0.68				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
123	SFCD	339	225	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
124	SFCD	462	630	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
125	SFCD	267	105	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
126	SFCD	311	175	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
127	SFCD	251	95	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
128	SFCD	329	215	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
129	SFCD	366	255	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
130	SFCD	234	75	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
131	SFCD	441	545	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
132	SFCD	267	125	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
133	SFCD	391	480	0.80				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
134	SFCD	235	75	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
135	SFCD	234	80	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
136	SFCD	337	240	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
137	SFCD	334	215	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
138	SFCD	294	140	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
139	SFCD	201	35	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
140	SFCD	321	215	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
141	SFCD	203	45	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
142	SFCD	193	35	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
143	SFCD	368	335	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
144	SFCD	369	305	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
145	SFCD	231	70	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
146	SFCD	322	205	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
147	SFCD	226	65	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
148	SFCD	217	60	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
149	SFCD	357	220	0.48				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
150	SFCD	351	285	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
151	SFCD	343	245	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
152	SFCD	337	225	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
153	SFCD	276	140	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
154	SFCD	333	245	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
155	SFCD	236	80	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
156	SFCD	402	395	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
157	SFCD	425	490	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
158	SFCD	319	200	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
159	SFCD	293	150	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
160	SFCD	244	65	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
161	SFCD	224	50	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
162	SFCD	368	335	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
163	SFCD	339	275	0.71				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
164	SFCD	210	45	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
165	SFCD	185	30	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
166	SFCD	211	50	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
167	SFCD	257	85	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
168	SFCD	216	55	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
169	SFCD	221	90	0.83				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
170	SFCD	357	280	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
171	SFCD	226	85	0.74				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
172	SFCD	258	95	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
173	SFCD	241	75	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
174	SFCD	189	40	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
175	SFCD	222	70	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
176	SFCD	259	100	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
177	SFCD	192	30	0.42				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
178	SFCD	197	30	0.39				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
179	SFCD	261	130	0.73				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
180	SFCD	327	195	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
181	SFCD	225	50	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
182	SFCD	216	55	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
183	SFCD	296	155	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
184	SFCD	207	40	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
185	SFCD	282	145	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
186	SFCD	287	145	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
187	SFCD	194	35	0.48				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
188	SFCD	283	145	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
189	SFCD	342	250	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
190	SFCD	341	265	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
191	SFCD	290	150	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
192	SFCD	271	125	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
193	SFCD	198	30	0.39				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
194	SFCD	247	90	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
195	SFCD	241	80	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
196	SFCD	274	95	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
197	SFCD	229	70	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
198	SFCD	239						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
199	SFCD	236	80	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
200	SFCD	193	35	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
201	SFCD	261	105	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
202	SFCD	302	180	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
203	SFCD	329	210	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
204	SFCD	448	550	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
205	SFCD	230	65	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
206	SFCD	249	90	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
207	SFCD	226	45	0.39				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
208	SFCD	212	45	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
209	SFCD	215	50	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
210	SFCD	204	40	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
211	SFCD	236	65	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
212	SFCD	295	150	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
213	SFCD	221	55	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
214	SFCD	230	55	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
215	SFCD	200	35	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
216	SFCD	249	85	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
217	SFCD	188	35	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
218	SFCD	202	35	0.42				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
219	SFCD	191	40	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
220	SFCD	246	80	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
221	SFCD	297	145	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
222	SFCD	215	50	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
223	SFCD	224	60	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
224	SFCD	247	80	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
225	SFCD	223	50	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
226	SFCD	234	55	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
227	SFCD	192	35	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
228	SFCD	178	20	0.35				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
229	SFCD	188	30	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
230	SFCD	200	40	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
231	SFCD	304						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
232	SFCD	226	60	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
233	SFCD	209	40	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
234	SFCD	311	160	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
235	SFCD	169	25	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
236	SFCD	304	165	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
237	SFCD	180	25	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
238	SFCD	229	60	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		1			
239	SFCD	190						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
240	SFCD	193						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
241	SFCD	282	110	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
242	SFCD	236	65	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
243	SFCD	159						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
244	SFCD	184						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
245	SFCD	196						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
246	SFCD	334	200	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
247	SFCD	238						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
248	SFCD	317	185	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
249	SFCD	258	85	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
250	SFCD	244	70	0.48				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
251	SFCD	189						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
252	SFCD	263	105	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
253	SFCD	193	35	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
254	SFCD	204	35	0.41				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
255	SFCD	252	85	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
256	SFCD	207	40	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
257	SFCD	191	35	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
258	SFCD	155						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
259	SFCD	200	35	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
260	SFCD	179						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
261	SFCD	220	50	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
262	SFCD	195						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
263	SFCD	223						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
264	SFCD	148	15	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
265	SFCD	194						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
266	SFCD	237	65	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
267	SFCD	207						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
268	SFCD	213						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
269	SFCD	210	40	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
270	SFCD	116	10	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
271	SFCD	207						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
272	SFCD	177						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
273	SFCD	195						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
274	SFCD	195	35	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
275	SFCD	181	35	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
276	SFCD	179						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
277	SFCD	186						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
278	SFCD	209	40	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
279	SFCD	169						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
280	SFCD	198	35	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
281	SFCD	147						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
282	SFCD	183	30	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
283	SFCD	191	35	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
284	SFCD	248						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
285	SFCD	186	35	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
286	SFCD	181						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
287	SFCD	209	40	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
288	SFCD	164	20	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
289	SFCD	138						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
290	SFCD	158						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
291	SFCD	165						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
292	SFCD	142						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
293	SFCD	211	40	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
294	SFCD	164						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
295	SFCD	254	95	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		2			
296	SFCD	208	40	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
297	SFCD	203						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
298	SFCD	252	80	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
299	SFCD	253	80	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
300	SFCD	216	50	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
301	SFCD	198						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
302	SFCD	228						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
303	SFCD	246	85	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
304	SFCD	205						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
305	SFCD	195	35	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
306	SFCD	180	35	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
307	SFCD	176						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
308	SFCD	208	45	0.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
309	SFCD	206	45	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
310	SFCD	205	40	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
311	SFCD	204	45	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
312	SFCD	212	40	0.42				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
313	SFCD	191	30	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
314	SFCD	187						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
315	SFCD	151						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
316	SFCD	187						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
317	SFCD	176	25	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
318	SFCD	199	40	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
319	SFCD	231	50	0.41				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
320	SFCD	206						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
321	SFCD	155						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
322	SFCD	198						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
323	SFCD	158						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
324	SFCD	136						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
325	ARFL	238	160	1.19				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
326	ARFL	236	170	1.29				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
327	ARFL	297	340	1.30				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
328	ARFL	238	195	1.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
329	ARFL	221	135	1.25				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
330	ARFL	247	190	1.26				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
331	ARFL	225	165	1.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
332	ARFL	230	135	1.11				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
333	SFCD	267	85	0.45				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
334	SFCD	232						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
335	SFCD	195						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
336	SFCD	250	95	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
337	SFCD	244	90	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
338	SFCD	204	40	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
339	SFCD	211	45	0.48				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
340	SFCD	241						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
341	SFCD	214	45	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
342	SFCD	347	260	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
343	SFCD	248	80	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
344	SFCD	248	80	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
345	SFCD	379	355	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
346	SFCD	246	80	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
347	SFCD	227	60	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
348	SFCD	223	60	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
349	SFCD	218	45	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
350	SFCD	286	125	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
351	SFCD	227	50	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
352	SFCD	145	15	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
353	SFCD	215	55	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
354	SFCD	194	30	0.41				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
355	SFCD	246	80	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
356	SFCD	247	70	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
357	SFCD	206	45	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
358	SFCD	195	40	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
359	SFCD	186	30	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
360	SFCD	204	40	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
361	SFCD	245	80	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
362	SFCD	214	55	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
363	SFCD	255	105	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
364	SFCD	204	35	0.41				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
365	SFCD	190	30	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
366	SFCD	206	35	0.40				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
367	SFCD	226	50	0.43				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
368	SFCD	335	210	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
369	SFCD	199	35	0.44				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
370	SFCD	197	35	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
371	SFCD	260	100	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
372	SFCD	254	80	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
373	SFCD	266	115	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
374	SFCD	395	365	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
375	SFCD	371	330	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
376	SFCD	365	275	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
377	SFCD	303	150	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
378	SFCD	373	335	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
379	SFCD	345	240	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
380	SFCD	343	260	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
381	SFCD	351	245	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
382	SFCD	356	290	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
383	SFCD	405	405	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
384	SFCD	372	315	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
385	SFCD	373	340	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
386	SFCD	355	290	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
387	SFCD	281	135	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
388	SFCD	336	240	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
389	SFCD	345	335	0.82				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
390	SFCD	345	265	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
391	SFCD	316	175	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
392	SFCD	322	205	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
393	SFCD	336	245	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
394	SFCD	328	230	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
395	SFCD	320	210	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
396	SFCD	336	250	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
397	SFCD	327	210	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
398	SFCD	368	295	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
399	SFCD	245	95	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
400	SFCD	315	200	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
401	SFCD	335	230	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
402	SFCD	216	70	0.69				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
403	SFCD	236	85	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
404	SFCD	234	75	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
405	SFCD	213	55	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
406	SFCD	256	90	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
407	SFCD	279	150	0.69				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
408	SFCD	245	90	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
409	SFCD	255	90	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
410	SFCD	228	70	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
411	SFCD	209	50	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
412	SFCD	357	295	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
413	SFCD	202	50	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
414	SFCD	212	55	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
415	SFCD	217	50	0.49				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
416	SFCD	176	30	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
417	SFCD	256	120	0.72				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
418	SFCD	205	45	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
419	SFCD	225	65	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
420	SFCD	189	40	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
421	SFCD	217	40	0.39				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
422	ARFL	220	135	1.27				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
423	ARFL	221	165	1.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
424	ARFL	163	60	1.39				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
425	ARFL	245	220	1.50				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
426	SFCD	224	60	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
427	SFCD	198	50	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
428	SFCD	193	45	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
429	SFCD	200	50	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
430	SFCD	211	60	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
431	SFCD	177	35	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
432	SFCD	204	50	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
433	SFCD	196	45	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
434	SFCD	187	40	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
435	SFCD	192	40	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
436	SFCD	219	65	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
437	SFCD	218	55	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
438	SFCD	196	45	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
439	SFCD	164	25	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
440	SFCD	165	25	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
441	SFCD	178	30	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
442	SFCD	243	80	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
443	SFCD	216	60	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
444	SFCD	188	45	0.68				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
445	SFCD	245	95	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
446	SFCD	183	40	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
447	SFCD	194	40	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
448	SFCD	206	50	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
449	SFCD	267	110	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
450	SFCD	220	60	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
451	SFCD	357						LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
452	SFCD	218	65	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
453	SFCD	201	50	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
454	SFCD	189	45	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
455	SFCD	186	40	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
456	SFCD	148	15	0.46				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
457	SFCD	210	55	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
458	SFCD	302	185	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
459	SFCD	240	85	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
460	SFCD	252	95	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
461	SFCD	198	45	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
462	SFCD	204	55	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
463	SFCD	245	85	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
464	SFCD	195	45	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
465	SFCD	182	35	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
466	SFCD	160	25	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
467	SFCD	260	120	0.68				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
468	SFCD	196	45	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
469	SFCD	179	30	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
470	SFCD	166	25	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
471	SFCD	195	55	0.74				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
472	ARFL	236	170	1.29				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
473	SFCD	256	110	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
474	SFCD	270	115	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
475	SFCD	205	45	0.52				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
476	SFCD	233	75	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
477	SFCD	235	80	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
478	SFCD	190	40	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
479	SFCD	349	260	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
480	SFCD	221	65	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
481	SFCD	195	45	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
482	SFCD	211	60	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
483	SFCD	190	45	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
484	SFCD	182	35	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
485	SFCD	211	60	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
486	SFCD	208	55	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
487	SFCD	165	25	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
488	SFCD	192	40	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
489	SFCD	206	50	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
490	SFCD	203	45	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
491	SFCD	196	50	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
492	SFCD	220	65	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
493	SFCD	214	60	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
494	SFCD	207	55	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
495	SFCD	217	60	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
496	SFCD	179	35	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
497	SFCD	165	25	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
498	SFCD	207	55	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
499	SFCD	195	45	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
500	SFCD	151	20	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
501	SFCD	323	215	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
502	SFCD	198	45	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
503	SFCD	183	35	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
504	SFCD	244	85	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
505	SFCD	147	15	0.47				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
506	SFCD	218	55	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
507	SFCD	260	105	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
508	SFCD	220	60	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
509	SFCD	205	55	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
510	SFCD	237	80	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
511	SFCD	194	45	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
512	SFCD	199	50	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
513	SFCD	217	60	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
514	SFCD	179	35	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
515	SFCD	196	45	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
516	SFCD	212	55	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
517	SFCD	183	35	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
518	SFCD	220	65	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
519	SFCD	203	55	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
520	SFCD	183	40	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
521	SFCD	181	35	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
522	SFCD	280	135	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
523	SFCD	205	55	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
524	SFCD	208	55	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
525	SFCD	215	60	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
526	SFCD	191	40	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
527	SFCD	168	25	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
528	SFCD	210	55	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
529	SFCD	187	40	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
530	SFCD	207	50	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
531	SFCD	187	35	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
532	SFCD	191	40	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
533	SFCD	152	10	0.28				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
534	SFCD	190	35	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
535	SFCD	260	105	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
536	SFCD	181	35	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
537	SFCD	220	60	0.56				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
538	SFCD	195	50	0.67				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
539	SFCD	180	35	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
540	SFCD	171	30	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
541	SFCD	150	20	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
542	SFCD	282	135	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
543	SFCD	230	70	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
544	SFCD	182	35	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
545	SFCD	205	50	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
546	SFCD	215	60	0.60				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
547	SFCD	177	30	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
548	SFCD	215	65	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
549	SFCD	152	20	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
550	SFCD	210	55	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
551	SFCD	215	55	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
552	SFCD	193	45	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
553	SFCD	168	30	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
554	SFCD	212	55	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
555	SFCD	182	35	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
556	SFCD	195	45	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
557	SFCD	196	40	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
558	SFCD	205	50	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
559	SFCD	153	25	0.70				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
560	SFCD	156	20	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
561	SFCD	214	60	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
562	SFCD	171	35	0.70				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
563	SFCD	242	90	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
564	SFCD	260	110	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
565	SFCD	218	55	0.53				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
566	SFCD	208	55	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
567	SFCD	196	50	0.66				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
568	SFCD	206	60	0.69				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
569	SFCD	195	45	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
570	SFCD	202	50	0.61				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
571	SFCD	200	50	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
572	SFCD	207	55	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
573	SFCD	190	40	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
574	SFCD	197	50	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
575	SFCD	197	50	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
576	SFCD	228	75	0.63				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
577	SFCD	205	50	0.58				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
578	SFCD	148	20	0.62				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
579	SFCD	235	85	0.65				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
580	SFCD	170	25	0.51				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
581	SFCD	260	95	0.54				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
582	SFCD	189	40	0.59				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
583	SFCD	215	55	0.55				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
584	SFCD	152	20	0.57				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
585	PCHR	245	135	0.92				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
586	SFCD	385	365	0.64				LFN	1	08-Aug-05	RBFN-WB	Roberts Bay		0			
587	ARCH	246	130	0.87	F?			LFN	1	08-Aug-05	RBFN-WB	Roberts Bay	SC, OT	1			ST=0
588	SFCD	351	290	0.67				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
589	SFCD	426	480	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
590	SFCD	381	345	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
591	SFCD	386	325	0.57				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
592	SFCD	309	200	0.68				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
593	SFCD	314	215	0.69				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
594	SFCD	347	315	0.75				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
595	SFCD	284	160	0.70				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
596	SFCD	422	495	0.66				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
597	SFCD	379	375	0.69				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
598	SFCD	302	160	0.58				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
599	SFCD	327	245	0.70				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
600	SFCD	248	95	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
601	SFCD	320	215	0.66				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
602	SFCD	365	315	0.65				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
603	SFCD	334	245	0.66				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
604	SFCD	232	70	0.56				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
605	SFCD	343	280	0.69				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
606	SFCD	297	160	0.61				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
607	SFCD	330	225	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
608	SFCD	249	90	0.58				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
609	SFCD	338	260	0.67				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
610	SFCD	364						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
611	SFCD	246	90	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
612	SFCD	184	30	0.48				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
613	SFCD	376	340	0.64				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
614	SFCD	266	115	0.61				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
615	SFCD	198	45	0.58				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
616	SFCD	197	45	0.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
617	SFCD	187	30	0.46				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
618	SFCD	217	70	0.69				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
619	SFCD	191	40	0.57				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
620	SFCD	149	20	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
621	SFCD	206	55	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
622	ARCH	200	75	0.94				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
623	SFCD	149	20	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
624	SFCD	223	70	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
625	SFCD	188	40	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
626	SFCD	181	35	0.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
627	SFCD	204	50	0.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
628	SFCD	185	40	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
629	SFCD	147	20	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
630	SFCD	201	45	0.55				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
631	SFCD	239	80	0.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
632	SFCD	244	90	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
633	SFCD	203	50	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
634	SFCD	186	40	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
635	SFCD	205	50	0.58				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
636	SFCD	191	40	0.57				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
637	SFCD	201	55	0.68				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
638	SFCD	242	85	0.60				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
639	SFCD	186	40	0.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
640	SFCD	195	45	0.61				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
641	LKTR	223	100	0.90				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			Photo 151
642	SFCD	249	85	0.55				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
643	SFCD	156	20	0.53				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
644	SFCD	247	85	0.56				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
645	SFCD	213	55	0.57				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
646	SFCD	176	35	0.64				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
647	SFCD	147	20	0.63				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
648	SFCD	181	30	0.51				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
649	SFCD	144	15	0.50				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
650	SFCD	223	55	0.50				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
651	SFCD	142	15	0.52				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
652	ARFL	137	30	1.17				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
653	ARFL	253	230	1.42				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
654	ARFL	230	170	1.40				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
655	ARFL	364	625	1.30				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
656	ARFL	247	240	1.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
657	ARFL	287	335	1.42				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
658	ARFL	240	195	1.41				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
659	ARFL	254	245	1.50				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
660	ARFL	363	580	1.21				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
661	ARFL	236	195	1.48				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
662	ARFL	228	160	1.35				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
663	ARFL	240	220	1.59				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
664	ARFL	167	60	1.29				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
665	ARFL	216	145	1.44				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
666	ARFL	239	180	1.32				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
667	ARFL	175	65	1.21				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
668	ARFL	246	185	1.24				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
669	ARFL	232	155	1.24				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
670	ARFL	262	290	1.61				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
671	ARFL	254	235	1.43				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
672	ARFL	224	170	1.51				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
673	ARFL	172	65	1.28				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
674	ARFL	257	275	1.62				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
675	ARFL	219	140	1.33				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
676	ARFL	205	120	1.39				LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
677	ARFL	239						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
678	SFCD	365						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			Photo
679	SFCD	242						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
680	SFCD	167						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
681	SFCD	162						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
682	SFCD	249						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
683	SFCD	170						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
684	SFCD	284						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
685	SFCD	223						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
686	SFCD	204						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
687	SFCD	239						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
688	SFCD	228						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
689	SFCD	224						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
690	SFCD	243						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
691	SFCD	247						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
692	SFCD	245						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
693	SFCD	244						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
694	SFCD	245						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
695	SFCD	234						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
696	SFCD	162						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
697	SFCD	223						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
698	SFCD	130						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
699	SFCD	154						LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
700	STFL	458	1475	1.54				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			New Species
701	STFL	464	1290	1.29				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
702	STFL	406	750	1.12				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
703	PCHR	268	140	0.73				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
704	ARFL	214	150	1.53				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
705	ARFL	241	205	1.46				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
706	ARFL	229	165	1.37				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
707	ARFL	227	160	1.37				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
708	ARFL	230	155	1.27				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
709	ARFL	166	60	1.31				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
710	ARFL	241	195	1.39				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
711	ARFL	235	175	1.35				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
712	ARFL	178	70	1.24				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
713	ARFL	215	145	1.46				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
714	ARFL	375	755	1.43				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
715	ARFL	269	330	1.70				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
716	ARFL	266	295	1.57				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
717	ARFL	234	175	1.37				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
718	ARFL	224	160	1.42				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
719	ARFL	247	210	1.39				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
720	ARFL	176	90	1.65				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
721	ARFL	148	45	1.39				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
722	ARFL	128	25	1.19				LFN	2	09-Aug-05	RBFN-WB	Roberts Bay		0			
723	ARCH	781	4250	0.89	F	G	4284	TRAP	6	09-Aug-05	TD	Roberts Outflow		0	2005	no	Slender
724	LKTR	463	885	0.89		G	4000	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2004		Recapture
725	LKTR	465	1200	1.19		G	3917	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture
726	LKTR	476	1300	1.21		B	16	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2000		Rescan, Recapture
727	LKTR	471	1070	1.02		G	4015	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2004		Recapture
728	LKTR	467	1120	1.10		G	4056	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2004		Recapture
729	LKTR	453	1000	1.08		B	36	TRAP	6	09-Aug-05	TD	Roberts Outflow		2	2000		Rescan, Recapture
730	LKTR	550	1870	1.12	F			TRAP	6	09-Aug-05	TD	Roberts Outflow		1			Injured in trap, Photo 167, Not spawn this year
731	LKTR	474	1245	1.17		G	4098	TRAP	6	09-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture, St. 2090 fish
732	ARCH	782	5510	1.15	F	G	4270	TRAP	6	09-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
733	LKTR	448	1095	1.22		B	23	TRAP	6	09-Aug-05	TU	Roberts Outflow		2	2000	yes	Recapture
734	ARCH	724	3645	0.96	M	G	4285	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005		Photos- 170& 171 Colour
735	ARCH	822	5970	1.07	M	G	4286	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005		
736	ARCH	648	3000	1.10	F	G	4287	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005		
737	ARCH	738	3805	0.95	F	G	4288	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005		
738	LKTR	446	1080	1.22		G	4289	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005		

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
739	LKTR	448	910	1.01		G	4016	TRAP	7	10-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight
740	LKTR	436	785	0.95		G	4102	TRAP	7	10-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight
741	LKTR	454	980	1.05		G	3169	TRAP	7	10-Aug-05	TD	Roberts Outflow		2	2003		Recapture Tight
742	LKTR	423	905	1.20		G	4290	TRAP	7	10-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
743	LKTR	463	885	0.89		G	4000	TRAP	7	10-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture
744	LKTR	519	1780	1.27		B	45	TRAP	7	10-Aug-05	TU	Roberts Outflow		2	2000	yes	Recapture Rescan
745	LKTR	453	1000	1.08		B	36	TRAP	7	10-Aug-05	TU	Roberts Outflow		2	2000	yes	Recapture Rescan
746	LKTR	470	1200	1.16		G	3063	TRAP	7	10-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
747	ARFL	245	185	1.26				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
748	ARFL	264						LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
749	ARFL	359	680	1.47				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
750	ARFL	256	255	1.52				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
751	ARFL	261	245	1.38				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
752	ARFL	255	240	1.45				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
753	ARFL	242	225	1.59				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
754	ARFL	199	120	1.52				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
755	ARFL	243	230	1.60				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
756	ARFL	267	255	1.34				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
757	ARFL	243	205	1.43				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
758	ARFL	136	30	1.19				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
759	ARFL	175	65	1.21				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
760	ARFL	220	145	1.36				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
761	ARFL	301	325	1.19				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
762	ARFL	185	85	1.34				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
763	ARFL	249	210	1.36				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
764	ARFL	233	175	1.38				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
765	ARFL	187	90	1.38				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
766	ARFL	136						LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
767	ARFL	211	115	1.22				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
768	ARFL	215	125	1.26				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
769	ARFL	244	200	1.38				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
770	SFCD	94	5	0.60				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
771	SFCD	86	5	0.79				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
772	SFCD	93	5	0.62				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
773	SFCD	86	5	0.79				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
774	SFCD	93	5	0.62				LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
775	SFCD	243	85	0.59				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
776	SFCD	206	40	0.46				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
777	SFCD	237	85	0.64				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
778	SFCD	228	75	0.63				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
779	SFCD	225	70	0.61				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
780	SFCD	188	35	0.53				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
781	SFCD	194	35	0.48				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
782	SFCD	262	100	0.56				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
783	SFCD	213	50	0.52				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
784	SFCD	211	55	0.59				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
785	SFCD	187	35	0.54				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			Lower right jaw
786	SFCD	202	55	0.67				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
787	SFCD	212	60	0.63				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
788	SFCD	190	25	0.36				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
789	SFCD	214	50	0.51				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
790	SFCD	165	35	0.78				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
791	SFCD	143	15	0.51				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
792	SFCD	136	10	0.40				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
793	SFCD	317	195	0.61				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
794	SFCD	193	30	0.42				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
795	SFCD	183	30	0.49				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
796	SFCD	263	105	0.58				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
797	SFCD	215	60	0.60				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
798	SFCD	145	20	0.66				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
799	SFCD	191	35	0.50				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
800	SFCD	146	15	0.48				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish caprured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
801	SFCD	200	45	0.56				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
802	SFCD	158	25	0.63				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
803	SFCD	160	25	0.61				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
804	SFCD	135	15	0.61				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
805	SFCD	192	40	0.57				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
806	SFCD	197	55	0.72				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
807	SFCD	160	20	0.49				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
808	SFCD	319	180	0.55				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
809	SFCD	246	90	0.60				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
810	SFCD	150	15	0.44				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
811	SFCD	122	10	0.55				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
812	SFCD	175	35	0.65				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
813	SFCD	156	25	0.66				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
814	SFCD	172	25	0.49				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
815	SFCD	251	90	0.57				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
816	SFCD	190	40	0.58				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
817	SFCD	153	20	0.56				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
818	SFCD	148	20	0.62				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
819	PCHR	250	120	0.77				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			Photo 173, 174, 175, 176
820	ARFL	233	145	1.15				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
821	ARFL	242	185	1.31				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
822	ARFL	242	175	1.23				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
823	ARFL	261	245	1.38				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
824	ARFL	157	55	1.42				LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
825	LKTR	747	3860	0.93		G	4291	TRAP	8	11-Aug-05	TD	Roberts Outflow		0	2005	no	Skinny, tight
826	ARCH	668	2340	0.79	F	G	4292	TRAP	8	11-Aug-05	TD	Roberts Outflow		0	2005		Open wound on right peduncle, Photos 187, 188
827	LKTR	525	1710	1.18		B	38	TRAP	8	11-Aug-05	TD	Roberts Outflow		2	2000		Rescan, Recapture
828	LKTR	516	1700	1.24		G	4293	TRAP	8	11-Aug-05	TD	Roberts Outflow		0	2005		Tight
829	LKTR	479	1120	1.02		G	4083	TRAP	8	11-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture
830	LKTR	872	7210	1.09		G	4258	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	up	Photos 189 & 190 Recapture
831	LKTR	784	5325	1.11		G	4259	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	up	Recapture
832	ARCH	724	3645	0.96	M	G	4285	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture- coloured male
833	LKTR	574	1870	0.99		G	4278	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
834	LKTR	582	2190	1.11		G	4267	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
835	LKTR	467	1120	1.10		G	4056	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture
836	ARCH	738	3805	0.95	F	G	4288	TRAP	8	11-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
837	ARCH	741	5005	1.23	M	G	4295	LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0	2005		Photos 201& 202
838	LKTR	553	2095	1.24		G	4296	LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0	2005		Tight
839	ARFL	256	255	1.52				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
840	ARFL	242	215	1.52				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
841	ARFL	237	180	1.35				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
842	ARFL	222	160	1.46				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
843	ARFL	197	105	1.37				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
844	ARFL	160	50	1.22				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
845	ARFL	135	25	1.02				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
846	ARFL	146	40	1.29				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
847	ARFL	150	45	1.33				LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
858	ARFL	199	120	1.52				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
859	ARFL	256	265	1.58				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
860	ARFL	137	30	1.17				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
861	ARFL	230	155	1.27				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
862	ARFL	119	30	1.78				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
863	ARFL	198	95	1.22				LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
864	ARCH	673	3275	1.07	F	G	4297	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005	no	
865	LKTR	514	1595	1.17		G	4298	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005		Tight
866	ARCH	741	4625	1.14	F	G	4299	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005	no	
867	LKTR	522	1605	1.13		G	3055	TRAP	9	12-Aug-05	TD	Roberts Outflow		2	2003		Recapture Tight
868	ARCH	719	3760	1.01	F	G	4300	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005		
869	ARCH	733	4035	1.02	F	G	4301	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005	no	
870	LKTR	555	2375	1.39		G	4059	TRAP	9	12-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight, SFCD in throat

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
871	ARCH	435	775	0.94	F	G	4135	TRAP	9	12-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture some pink, slight hue on belly/ fins orange/ pink/ photos 240, 241, 242
872	ARCH	648	2525	0.93	F	G	3167	TRAP	9	12-Aug-05	TD	Roberts Outflow		2	2003		Recapture
873	ARCH	743	3645	0.89		G	4302	TRAP	9	12-Aug-05	TD	Roberts Outflow		0	2005		Photos 243, 244 (red birth mark)
874	LKTR	413	815	1.16		G	4057	TRAP	9	12-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture Tight
875	LKTR	451	940	1.02		G	3169	TRAP	9	12-Aug-05	TU	Roberts Outflow		2	2003	yes	Tight
876	LKWH	435	940	1.14		G	4303	LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0	2005		Scales
877	LKWH	419	975	1.33		G	4304	LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0	2005		Scales, lots of photos
878	LKTR	403	725	1.11		G	4305	LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0	2005		
879	ARCH	176	55	1.01				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			Scales
880	PCHR	235	125	0.96				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
881	ARCH	210	90	0.97				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			Scales
882	ARCH	194	65	0.89				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			Scales
883	ARCH	225	110	0.97				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			Scales
884	ARCH	215	95	0.96				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			Scales
885	ARFL	226	140	1.21				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
886	ARFL	220	130	1.22				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
887	ARFL	232	170	1.36				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
888	ARFL	250	220	1.41				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
889	ARFL	232	170	1.36				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
890	ARFL	232	195	1.56				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
891	ARFL	247	205	1.36				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
892	ARFL	237	160	1.20				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
893	ARFL	166	55	1.20				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
894	ARFL	156	40	1.05				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
895	ARFL	135	15	0.61				LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
896	PCHR	228	120	1.01				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
897	ARFL	295	355	1.38				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
898	ARFL	237	210	1.58				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
899	ARFL	223	140	1.26				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
900	ARFL	225	155	1.36				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
901	ARFL	245	230	1.56				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
902	ARFL	205	125	1.45				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
903	ARFL	140	30	1.09				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
904	FRSC	113	10	0.69				LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			Seined with Fyke lead
905	ARCH	760	4120	0.94	F	G	4306	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005		
906	LKTR	553	2095	1.24		G	4296	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005		Recapture from Roberts Bay
907	ARCH	600	2245	1.04	F	W	2325	TRAP	10	13-Aug-05	TD	Roberts Outflow		2	2002	no	Recapture
908	ARCH	720	5360	1.44	M	G	4307	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005		Humpback
909	ARCH	670	2795	0.93	F	G	3284	TRAP	10	13-Aug-05	TD	Roberts Outflow		2	2003		Recapture
910	ARCH	758	4840	1.11	F	G	4308	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005		
911	ARCH	781	3960	0.83	F	G	4309	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005	no	Skinny
912	ARCH	682	2825	0.89	F	G	3200	TRAP	10	13-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture, Skinny
913	LKTR	459	1115	1.15		G	4310	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
914	ARCH	620	2205	0.93	F	G	4311	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005		
915	LKTR	427	840	1.08		G	4312	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
916	ARCH	628	2645	1.07	F	G	4313	TRAP	10	13-Aug-05	TD	Roberts Outflow		0	2005	no	
917	LKTR	428	965	1.23		G	3206	TRAP	10	13-Aug-05	TD	Roberts Outflow		2	2003	no	Tight
918	ARCH	822	5970	1.07	M	G	4286	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
919	ARCH	743	3645	0.89		G	4302	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
920	ARCH	719	3760	1.01	F	G	4300	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
921	ARCH	668	2340	0.79	F	G	4292	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
922	ARCH	648	3000	1.10	F	G	4287	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
923	ARCH	804	6450	1.24	F	G	4273	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
924	ARCH	648	2525	0.93	F	G	3167	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
925	LKTR	476	1300	1.21		B	16	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2000	yes	Recapture, Rescan
926	LKTR	522	1605	1.13		G	3055	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
927	LKTR	516	1700	1.24		G	4293	TRAP	10	13-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
928	LKTR	553	2095	1.24		G	4296	TRAP	11	14-Aug-05	TU	Roberts Outflow		2	2005	yes	
929	ARCH	760	4120	0.94	F	G	4306	TRAP	11	14-Aug-05	TU	Roberts Outflow		2	2005	yes	
930	LKTR	460	1140	1.17		G	3197	TRAP	11	14-Aug-05	TU	Roberts Outflow		2	2003	up	Tight, check for recent recapture

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
931	ARCH	717	3085	0.84	F	G	3160	TRAP	12	15-Aug-05	TD	Roberts Outflow		2	2003		Skinny, recapture
932	ARCH	744	4980	1.21	M	G	4295	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005		Tagged in bay, Recapture
933	ARCH	699	3650	1.07	M	G	4314	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005	no	
934	ARCH	715	3095	0.85	F	G	3070	TRAP	12	15-Aug-05	TD	Roberts Outflow		2	2003		Skinny, Recapture
935	ARCH	700	2915	0.85	F	G	4315	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005		Colouring up, photo 269
936	ARCH	707	4110	1.16	F	G	4316	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005		
937	ARCH	390	585	0.99		G	4317	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005		
938	ARCH	663	2765	0.95	F	G	4318	TRAP	12	15-Aug-05	TD	Roberts Outflow		0	2005		
939	ARCH	695	3070	0.91	F	G	3203	TRAP	12	15-Aug-05	TD	Roberts Outflow		2	2003		Recapture
940	LKTR	192	70	0.99				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 270 & 271
941	ARCH	175	55	1.03				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 270 & 271
942	ARCH	131	30	1.33				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 272 & 273
943	LKTR	115	20	1.32				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 272 & 273
944	ARCH	136	30	1.19				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
945	LKTR	106	15	1.26				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
946	ARCH	138	35	1.33				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
947	ARCH	116	20	1.28				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
948	LKTR	103	20	1.83				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
949	LKTR	118	15	0.91				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
950	ARCH	105	15	1.30				EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
951	LKTR	79						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
952	LKTR	82						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
953	LKTR	101						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
954	ARCH	84						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
955	ARCH	79						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			
956	LKTR	77						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 274, 275, 276
957	ARCH	73						EF		15-Aug-05	ROEF-01	Roberts Outflow		0			Photo 274, 275, 276
958	ARCH	700	2915	0.85	F	G	4315	TRAP	12	15-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
959	ARCH	715	3095	0.85	F	G	3070	TRAP	12	15-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
960	ARCH	390	585	0.99		G	4317	TRAP	12	15-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
961	ARCH	717	3085	0.84	F	G	3160	TRAP	12	15-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
962	ARCH	744	4980	1.21	M	G	4295	TRAP	12	15-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
963	LKTR	467	1000	0.98		G	4319	LFN	1	15-Aug-05	POFN-01	Pelvic Outflow		0	2005		
964	LKTR	433	790	0.97		G	4320	LFN	1	15-Aug-05	POFN-01	Pelvic Outflow		0	2005		
965	LKTR	439	925	1.09		G	4321	LFN	1	15-Aug-05	POFN-01	Pelvic Outflow		0	2005		
966	LKTR	333	370	1.00		G	4322	LFN	1	15-Aug-05	POFN-01	Pelvic Outflow		0	2005		
967	LKTR	310	295	0.99		G	4323	LFN	1	15-Aug-05	POFN-01	Pelvic Outflow		0	2005		
968	LKTR	188	50	0.75				LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
969	CISC	231	120	0.97				LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
970	CISC	232	120	0.96				LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
971	CISC	221						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			Phot 277, 278
972	CISC	241	140	1.00				LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
973	CISC	195	60	0.81				LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
974	CISC	105						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			Photo 279, 280
975	CISC	105						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
976	CISC	100						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
977	CISC	75						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
978	CISC	92						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
979	CISC	85						LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC	0			
980	CISC	240	130	0.94	MM			LFN	1	15-Aug-05	POFN-01	Pelvic Outflow	SC, OT	1			Photo 281
981	ARCH	122						EF		15-Aug-05	E14EF	Roberts Inflow	SC	0			Photo 282
982	LKTR	79						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 283
983	ARCH	88						EF		15-Aug-05	E14EF	Roberts Inflow		0			
984	ARCH	102						EF		15-Aug-05	E14EF	Roberts Inflow		0			
985	ARCH	97						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 284
986	LKTR	112						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 285, 286
987	ARCH	82						EF		15-Aug-05	E14EF	Roberts Inflow		0			
988	ARCH	107						EF		15-Aug-05	E14EF	Roberts Inflow		0			
989	ARCH	79						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 287
990	LKTR	93						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 288
991	ARCH	74						EF		15-Aug-05	E14EF	Roberts Inflow		0			
992	ARCH	79						EF		15-Aug-05	E14EF	Roberts Inflow		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
993	ARCH	77						EF		15-Aug-05	E14EF	Roberts Inflow		0			
994	LKTR	100						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 289
995	LKTR	70						EF		15-Aug-05	E14EF	Roberts Inflow		0			
996	LKTR	88						EF		15-Aug-05	E14EF	Roberts Inflow		0			
997	LKTR	83						EF		15-Aug-05	E14EF	Roberts Inflow		0			
998	ARCH	97						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 290
999	LKTR	100						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1000	LKTR	79						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1001	LKTR	79						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1002	LKTR	72						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1003	ARCH	75						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1004	ARCH	82						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1005	ARCH	84						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1006	LKTR	73						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1007	LKTR	73						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1008	LKTR	78						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1009	ARCH	95						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1010	LKTR	74						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1011	LKTR	83						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1012	LKTR	72						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1013	ARCH	52						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1014	LKTR	69						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1015	ARCH	44						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 291
1016	ARCH	44						EF		15-Aug-05	E14EF	Roberts Inflow		0			Photo 292
1017	ARCH	46						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1018	ARCH	50						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1019	ARCH	47						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1020	NNST	56						EF		15-Aug-05	E14EF	Roberts Inflow		0			
1021	ARCH	741	3935	0.97	F	G	4324	TRAP	13	16-Aug-05	TD	Roberts Outflow		0	2005		Photo 336, 337
1022	ARCH	771	3905	0.85	M	G	3093	TRAP	13	16-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture, slender, photo 336, 337
1023	ARCH	334	420	1.13		G	4325	TRAP	13	16-Aug-05	TD	Roberts Outflow		2	2005	no	Recapture (tag scar) Photo 338
1024	LKTR	447	745	0.83		G	4326	TRAP	13	16-Aug-05	TD	Roberts Outflow		0	2005		Tight
1025	LKTR	514	1595	1.17		G	4298	TRAP	13	16-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1026	ARCH	695	3070	0.91	F	G	3203	TRAP	13	16-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
1027	LKTR	466	1010	1.00		G	4015	TRAP	13	16-Aug-05	TU	Roberts Outflow		2	2004	yes	Tight, Recapture
1028	ARCH	799	4715	0.92	M	W	2511	TRAP	14	17-Aug-05	TD	Roberts Outflow		2	2002	no	Photo 375, 376, 377
1029	ARCH	611	2295	1.01	F	G	4327	TRAP	14	17-Aug-05	TD	Roberts Outflow		0	2005		Photo 378
1030	ARCH	591	2355	1.14	F	G	4328	TRAP	14	17-Aug-05	TD	Roberts Outflow		0	2005	no	
1031	ARCH	741	3935	0.97	F	G	4324	TRAP	14	17-Aug-05	TU	Roberts Outflow		2	2005	yes	
1032	LKTR	665	3295	1.12		G	4329	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1033	LKTR	825	5185	0.92		G	4330	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1034	LKTR	596	2060	0.97		G	4181	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		2	2004		
1035	LKTR	427	865	1.11		G	4332	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight, Full stomach
1036	LKTR	568	1665	0.91		G	4161	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		2	2004		Tight
1037	LKTR	519	1350	0.97		G	4333	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1038	LKTR	427	795	1.02		G	4334	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1040	LKTR	366	550	1.12		G	4335	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1041	LKTR	338	425	1.10		G	4336	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		Bloody left eye
1042	LKWH	407	990	1.47		G	4337	LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1043	LKTR	230	100	0.82		G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		0			
1044	CISC	287	260	1.10	MM	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			Photo 381, 382 ST =50, ZOO
1045	CISC	220	115	1.08	MF	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			Photo 381, 383 ST= 50, ZOO
1046	CISC	264	185	1.01	MM	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST=75, ZOO
1047	CISC	265	190	1.02	MF	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST=50, ZOO
1048	CISC	233	115	0.91	IF	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 25, CHIR
1049	CISC	245	155	1.05	MF	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 50, ZOO
1050	CISC	268	200	1.04	MF	G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 25 Carapace
1051	CISC	250	165	1.06		G		LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1052	CISC	263	175	0.96				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1053	CISC	246	130	0.87				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1054	CISC	269	190	0.98				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1055	CISC	265	185	0.99				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1056	CISC	258	165	0.96				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1057	CISC	260	200	1.14				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1058	CISC	242	140	0.99				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1059	CISC	178	75	1.33				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST = 100 ZOO
1060	CISC	245	130	0.88				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1061	CISC	234	135	1.05				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1062	CISC	160						LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1063	CISC	256	185	1.10				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1064	CISC	233	130	1.03				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1065	CISC	235	145	1.12				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1066	CISC	231	105	0.85				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1067	CISC	244	130	0.89				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1068	CISC	261	180	1.01				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1069	CISC	247	155	1.03				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1070	CISC	233	135	1.07				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1071	CISC	237	140	1.05				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1072	CISC	221	115	1.07				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1073	CISC	227	120	1.03				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1074	CISC	219	105	1.00				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1075	CISC	283	205	0.90				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1076	CISC	249	155	1.00				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1077	CISC	259	180	1.04				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1078	CISC	264	205	1.11				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1079	CISC	242	145	1.02				LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1080	CISC	180	60	1.03	IM			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST =50 CHIR
1081	CISC	147	30	0.94	MF			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST =100 Black
1082	CISC	103			MM			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			Photo 384 ST= 50 Black
1083	CISC	89			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1084	CISC	82			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1085	CISC	96			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1086	CISC	81			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1087	CISC	102			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1088	CISC	76			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1089	CISC	80			I			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			
1090	LKWH	180	65	1.11	MM			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 50 CHIR
1091	LKWH	162	50	1.18	IF			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 50 CHIR
1092	LKWH	161	50	1.20	IF			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 0
1093	LKWH	120	15	0.87	IM			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 0
1094	LKWH	121	15	0.85	IF			LFN	2	17-Aug-05	POFN-01	Pelvic Outflow		1			ST= 0
1095	ARCH	799	4715	0.92	M	W	2511	Trap	14.5	17-Aug-05	TD	Roberts Outflow		2	2002	no	
1096	ARCH	591	2355	1.14	F	G	4328	Trap	14.5	17-Aug-05	TD	Roberts Outflow		1	2005		
1097	ARCH	514	1405	1.03	F	B	27	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2000		Rescan, Recapture Photo 385, colouring up
1098	ARCH	674	3100	1.01	F	G	4338	TRAP	15	17-Aug-05	TD	Roberts Outflow		0	2005		
1099	ARCH	651	2130	0.77	F	G	4339	TRAP	15	17-Aug-05	TD	Roberts Outflow		0	2005		Skinny
1100	LKTR	417	740	1.02		G	4340	TRAP	15	17-Aug-05	TD	Roberts Outflow		0	2005		Tight
1101	ARCH	745	3295	0.80	M?	G	3305	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture
1102	ARCH	438	790	0.94			4116	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture
1103	ARCH	402	690	1.06		G	4131	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, Photo 386
1104	ARCH	421	755	1.01		G	4341	TRAP	15	17-Aug-05	TD	Roberts Outflow		0	2005		
1105	LKTR	480	1285	1.16		G	3460	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2003		Recapture
1106	LKTR	410	805	1.17		G	3168	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture
1107	LKTR	458	1015	1.06		G	3306	TRAP	15	17-Aug-05	TD	Roberts Outflow		2	2003		Recapture
1108	LKTR	378	540	1.00		G	4342	TRAP	15	17-Aug-05	TD	Roberts Outflow		0	2005	no	
1109	LKTR	878	7805	1.15		G	4343	TRAP	16	18-Aug-05	TD	Roberts Outflow		0	2005		Tight, Photo 407-409
1110	ARCH	691	3345	1.01	F	W	2322	TRAP	16	18-Aug-05	TD	Roberts Outflow		2	2002	no	Recapture
1111	LKTR	495	1300	1.07	M	G	3382	TRAP	16	18-Aug-05	TD	Roberts Outflow		2	2003		Recapture, Milt
1112	ARCH	750	3165	0.75	F	G	3194	TRAP	16	18-Aug-05	TD	Roberts Outflow		2	2003		Skinny
1113	ARCH	758	4840	1.11	F	G	4308	TRAP	16	18-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1114	ARCH	670	2795	0.93	F	G	3284	TRAP	16	18-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture, Colouring up
1115	ARCH	514	1405	1.03	F	B	27	TRAP	16	18-Aug-05	TU	Roberts Outflow		2	2000	yes	Recapture

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1116	LKTR	468	985	0.96		G	4052	TRAP	16	18-Aug-05	TU	Roberts Outflow		2	2004	yes	
1117	ARCH	750	3165	0.75	F	G	3194	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2003	yes	Skinny
1118	LKTR	496	1305	1.07		G	3337	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2003	yes	
1119	ARCH	458	1015	1.06		G	3306	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2003	yes	
1120	ARCH	421	755	1.01		G	4341	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2005	yes	
1121	LKTR	446	985	1.11		G	4275	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2005	yes	
1122	LKTR	525	1710	1.18		B	38	TRAP	17	19-Aug-05	TU	Roberts Outflow		2	2000	yes	
1123	LKTR	644	2889	1.08		G	4344	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1124	LKTR	432	890	1.10		G	4345	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1125	LKTR	374	505	0.97		G	4346	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1126	LKTR	465	895	0.89		G	4347	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1127	LKTR	443	730	0.84		G	4348	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight
1128	LKTR	385	620	1.09		G	4349	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		Tight, most of dorsal fin missing
1129	LKTR	319	295	0.91		G	4350	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1130	LKTR	334	360	0.97		G	4351	LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1131	CISC	275	205	0.99				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 445
1132	CISC	241	130	0.93				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1133	CISC	259	180	1.04				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1134	CISC	251	165	1.04				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1135	CISC	221	105	0.97				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1136	CISC	253	155	0.96				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1137	CISC	260	160	0.91				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1138	CISC	247	160	1.06				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1139	CISC	229	115	0.96				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1140	CISC	237	135	1.01				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1141	CISC	217	90	0.88				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1142	CISC	181	55	0.93				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 446
1143	CISC	170	40	0.81				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 447
1144	CISC	115	10	0.66				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 449
1145	CISC	118						LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 450
1146	CISC	91						LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			Photo 451
1147	CISC	198	70	0.90				LFN	3	19-Aug-05	POFN-01	Pelvic Outflow		0			
1148	ARCH	753	3210	0.75	M	G	4352	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005		Photo 454, 455, scars
1149	ARCH	749	3785	0.90	F	G	4353	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005		Photo 456
1150	ARCH	727	3440	0.90	F	G	3268	TRAP	18	20-Aug-05	TD	Roberts Outflow		2	2003		Recapture
1151	ARCH	777	4730	1.01	F	G	4354	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005		
1152	ARCH	543	1855	1.16	F	G	4355	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005		
1153	ARCH	725	2940	0.77	F	G	4356	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005	no	
1154	ARCH	726	3690	0.96	M	G	4357	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005	no	
1155	ARCH	564	1905	1.06	F	G	3411	TRAP	18	20-Aug-05	TD	Roberts Outflow		2	2003		Recapture
1156	ARCH	512	1285	0.96	F	W	2220	TRAP	18	20-Aug-05	TD	Roberts Outflow		2	2002		Recapture
1157	ARCH	449	975	1.08	F?	G	3387	TRAP	18	20-Aug-05	TD	Roberts Outflow		2	2003	no	Recapture, Colouring up, Photo 457, 458
1158	ARCH	428	810	1.03		G	4051	TRAP	18	20-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, scars
1159	ARCH	325	330	0.96		G	4358	TRAP	18	20-Aug-05	TD	Roberts Outflow		0	2005	no	
1160	LKTR	878	7805	1.15		G	4343	TRAP	18	20-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1161	ARCH	707	4110	1.16	F	G	4316	TRAP	18	20-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1162	ARCH	390	585	0.99		G	4317	LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		2	2005		Recapture
1163	CISC	245						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			Photo 462
1164	LKWH	318	400	1.24		G	4360	LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1165	LKWH	320	405	1.24		G	4361	LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1166	CISC	252						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1167	CISC	256						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1168	CISC	270						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1169	CISC	255						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1170	CISC	253						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1171	CISC	237						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1172	CISC	252						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1173	CISC	257						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1174	CISC	250						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1175	CISC	255						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1176	CISC	264						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1177	CISC	271						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1178	CISC	223						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1179	CISC	248						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1180	LKWH	265						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1181	CISC	280						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1182	CISC	246						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1183	CISC	229						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1184	CISC	249						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1185	CISC	208						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1186	CISC	222						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1187	CISC	234						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1188	CISC	90						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1189	CISC	109						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1190	CISC	86						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1191	CISC	87						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1192	CISC	84						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1193	CISC	82						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1194	CISC	108						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1195	CISC	83						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1196	CISC	86						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1197	LKTR	82						LFN	4	20-Aug-05	POFN-01	Pelvic Outflow		0			
1198	LKTR	705	3070	0.88		G	4362	TRAP	19	21-Aug-05	TD	Roberts Outflow		0	2005	no	Skinny Tight
1199	ARCH	478	1170	1.07		G	4331	TRAP	19	21-Aug-05	TD	Roberts Outflow		0	2005		
1200	ARCH	352	475	1.09		G	4204	TRAP	19	21-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, Colouring up, Photo 470
1201	ARCH	336	415	1.09		G	4359	TRAP	19	21-Aug-05	TD	Roberts Outflow		0	2005	no	
1202	LKTR	386	635	1.10		G	4400	TRAP	19	21-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
1203	ARCH	749	3785	0.90	F	G	4353	TRAP	19	21-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1204	ARCH	777	4730	1.01	F	G	4354	TRAP	19	21-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1205	ARCH	727	3440	0.90	F	G	3268	TRAP	19	21-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
1206	LKTR	648	3240	1.19		G	4261	TRAP	19	21-Aug-05	TU	Roberts Outflow		2	2005	up	Recapture
1207	ARCH	780	4755	1.00	M	G	4363	TRAP	20	22-Aug-05	TD	Roberts Outflow		0	2005		
1208	ARCH	401	770	1.19		G	4241	TRAP	20	22-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, photo 471 colour
1209	LKWH	453	1750	1.88		G	4364	TRAP	20	22-Aug-05	TD	Roberts Outflow		0	2005	no	Fat Photo 472
1210	LKTR	409	710	1.04		G	4365	TRAP	20	22-Aug-05	TD	Roberts Outflow		0	2005		Tight
1211	ARCH	375	575	1.09		G	4366	TRAP	20	22-Aug-05	TD	Roberts Outflow		0	2005	no	
1212	ARCH	351	510	1.18		G	4367	TRAP	20	22-Aug-05	TD	Roberts Outflow		0	2005	no	
1213	LKWH	420	895	1.21		G	4368	LFN	5	22-Aug-05	POFN-01	Pelvic Outflow	SC	0	2005		
1214	LKTR	383	580	1.03		G	4369	LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1215	LKTR	285	205	0.89		G	4370	LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1216	CISC	238	140	1.04				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1217	CISC	264	190	1.03				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1218	CISC	266	190	1.01				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1219	CISC	242	140	0.99				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1220	CISC	253	140	0.86				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1221	CISC	265	180	0.97				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1222	CISC	257	155	0.91				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1223	LKTR	234						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1224	CISC	282						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1225	CISC	237						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1226	LKTR	302	275	1.00		G	4371	LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1227	CISC	261	180	1.01				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1228	CISC	252	160	1.00				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1229	CISC	203	80	0.96				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1230	CISC	245	150	1.02				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1231	LKWH	230	140	1.15				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1232	CISC	251	150	0.95				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1233	CISC	261	185	1.04				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1234	CISC	195	60	0.81				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1235	CISC	213	75	0.78				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1236	LKTR	168	35	0.74				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1237	CISC	166	35	0.77				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1238	CISC	100						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1239	CISC	127						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1240	CISC	98						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1241	CISC	184	55	0.88				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1242	CISC	87						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1243	CISC	95						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1244	CISC	90						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1245	CISC	98						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1246	LKTR	172	45	0.88				LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1247	CISC	82						LFN	5	22-Aug-05	POFN-01	Pelvic Outflow		0			
1248	ARCH	823	5885	1.06	M	W	2516	TRAP	21	22-Aug-05	TD	Roberts Outflow		2	2002		
1249	ARCH	460	990	1.02	F	G	3362	TRAP	21	22-Aug-05	TD	Roberts Outflow		2	2003	no	
1250	LKTR	318	330	1.03		G	4372	TRAP	21	22-Aug-05	TD	Roberts Outflow		0	2005	no	
1251	ARCH	780	4755	1.00	M	G	4363	TRAP	21	22-Aug-05	TU	Roberts Outflow		2	2005	yes	
1252	ARCH	663	2765	0.95	F	G	4318	TRAP	21	22-Aug-05	TU	Roberts Outflow		2	2005	yes	
1253	ARCH	651	2130	0.77	F	G	4339	TRAP	21	22-Aug-05	TU	Roberts Outflow		2	2005	yes	Skinny
1254	ARCH	512	1285	0.96	F	W	2220	TRAP	21	22-Aug-05	TU	Roberts Outflow		2	2002	yes	
1255	ARCH	665	3390	1.15	F	G	4373	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1256	ARCH	703	3320	0.96	F	G	4374	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1257	ARCH	653	3000	1.08	F	G	4375	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1258	ARCH	647			F	G	4376	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1259	ARCH	565	1900	1.05		G	4377	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1260	ARCH	491	1220	1.03		G	4378	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005		
1261	ARCH	629	2885	1.16	M	G	4379	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005		
1262	ARCH	469	1030	1.00		G	4380	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005		
1263	ARCH	339	420	1.08		G	4381	TRAP	22	24-Aug-05	TD	Roberts Outflow		0	2005	no	
1264	ARCH	823	5885	1.06	M	W	2516	TRAP	22	24-Aug-05	TU	Roberts Outflow		2	2002	yes	
1265	LKWH	394	730	1.19		G	4382	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1266	LKWH	405	965	1.45		G	4383	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1267	LKWH	438	1100	1.31		G	4384	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1268	LKWH	392	690	1.15		G	4385	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1269	LKWH	361	535	1.14		G	4386	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1270	LKWH	406	865	1.29		G	4387	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0	2005		
1271	LKTR	483	1360	1.21		G	4176	LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		2	2004		Recapture
1272	ARCH	207	95	1.07				LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			photo 483, 484 (vermiculations)
1273	LKTR	229	105	0.87				LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			photo 485 (vermiculations)
1274	CISC	270	200	1.02				LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1275	CISC	87						LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1276	CISC	102						LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1277	CISC	91						LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1278	CISC	87						LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1279	CISC	88						LFN	6	24-Aug-05	POFN-01	Pelvic Outflow		0			
1280	LKTR	430	940	1.18		G	4388	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1281	LKTR	408	775	1.14				Angling		24-Aug-05	RLAN-01	Roberts Lake		0			Bloated, floating
1282	LKTR	790	4890	0.99		G	4389	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1283	LKTR	805	5540	1.06		G	4390	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1284	LKTR	782	5115	1.07		G	4391	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1285	LKTR	761	4385	0.99		G	4392	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1286	LKTR	388	605	1.04		G	4393	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1287	LKTR	378	585	1.08		G	4394	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1288	LKTR	480	1230	1.11	M	G	4395	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1289	LKTR	792	5580	1.12		G	4396	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1290	LKTR	410	780	1.13		G	4397	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1291	LKTR	769	4735	1.04		G	4398	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1292	LKTR	770	4685	1.03		G	4399	Angling		24-Aug-05	RLAN-01	Roberts Lake		0	2005		
1293	ARCH	650	3050	1.11	M	G	4401	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1294	ARCH	511	1370	1.03	F	G	4402	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1295	ARCH	336	450	1.19		G	4403	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005	no	
1296	ARCH	367	565	1.14		G	4404	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1297	ARCH	641	2880	1.09	F	G	4405	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1298	ARCH	605	2620	1.18	M	G	4406	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005	no	
1299	ARCH	381	680	1.23		G	4214	TRAP	23	25-Aug-05	TD	Roberts Outflow		2	2004		

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Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1300	ARCH	348	465	1.10		G	4203	TRAP	23	25-Aug-05	TD	Roberts Outflow		2	2004	no	
1301	ARCH	326	395	1.14		G	4407	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1302	ARCH	633	2710	1.07	M	G	4408	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1303	ARCH	378	580	1.07		G	4409	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1304	ARCH	343	485	1.20		G	4410	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005		
1305	ARCH	575	2045	1.08	M	G	4411	TRAP	23	25-Aug-05	TD	Roberts Outflow		0	2005	no	
1306	ARCH	753	3210	0.75	M	G	4352	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1307	LKTR	447	745	0.83		G	4326	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1308	ARCH	469	1030	1.00		G	4380	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1309	ARCH					G	4371	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2005	up	Recapture
1310	LKTR	409	710	1.04		G	4365	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1311	LKTR	480	1285	1.16		G	3460	TRAP	23	25-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
1312	LKTR	805	5600	1.07		G	4412	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1313	LKTR	446	980	1.10		G	4413	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1314	LKTR	646	2815	1.04		G	4414	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1315	LKTR	720	4200	1.13	M	G	4415	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1316	LKTR	661	3195	1.11		G	4416	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1317	LKTR	425	945	1.23		G	4417	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1318	LKTR	541	1925	1.22		G	4055	Angling		25-Aug-05	RLAN-01	Roberts Lake		2	2004		Recapture
1319	LKTR	828	6525	1.15	M	G	4418	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1320	LKTR	851	6245	1.01		G	4419	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1321	LKTR	693	3580	1.08	M	G	4420	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1322	LKTR	699	4025	1.18	M	G	4421	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1323	LKTR	760	5210	1.19	M	G	4422	Angling		25-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1324	ARCH	387	565	0.97		G	4423	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1325	ARCH	282	245	1.09		G	4424	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1326	ARCH	770	3785	0.83	F	G	4425	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1327	ARCH	363	555	1.16		G	4420	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1328	ARCH	401	645	1.00		G	4126	TRAP	24	26-Aug-05	TD	Roberts Outflow		2	2004	no	
1329	ARCH	279	230	1.06		G	4427	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1330	ARCH	409	690	1.01		G	4428	TRAP	24	26-Aug-05	TD	Roberts Outflow		0	2005	no	
1331	ARCH	650	3050	1.11	M	G	4401	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1332	ARCH	511	1370	1.03	F	G	4402	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1333	ARCH	611	2295	1.01	F	G	4327	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1334	ARCH	326	395	1.14		G	4407	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1335	ARCH	633	2710	1.07	M	G	4408	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1336	ARCH	629	2885	1.16	M	G	4379	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1337	ARCH	478	1170	1.07		G	4331	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1338	ARCH	378	580	1.07		G	4409	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1339	ARCH	381	680	1.23		G	4214	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2004	yes	
1340	ARCH	367	565	1.14		G	4404	TRAP	23	26-Aug-05	TU	Roberts Outflow		2	2005	yes	
1341	LKTR	645	2760	1.03	W		2302	Angling		26-Aug-05	RLAN-01	Roberts Lake		2	2002		Recapture from 2002, Tight
1342	LKTR	737	4360	1.09		G	4224	Angling		26-Aug-05	RLAN-01	Roberts Lake		2	2004		Recapture
1343	LKTR	425	745	0.97		G	4429	Angling		26-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1344	ARCH	71						EF		26-Aug-05	E12EF	Roberts Inflow		0			Photo 504, 505
1345	ARCH	74						EF		26-Aug-05	E11EF west	Roberts Inflow	SC	1			Photo 512, 513
1346	ARCH	118						EF		26-Aug-05	E11EF east	Roberts Inflow	SC	0			Fat, Photo 524, 529
1347	ARCH	84						EF		26-Aug-05	E11EF east	Roberts Inflow		0			Photo 524 upper fish
1348	ARCH	125						EF		26-Aug-05	E9EF	Roberts Inflow	SC	0			Photo 531
1349	ARCH	109						EF		26-Aug-05	E9EF	Roberts Inflow	SC	0			Photo 532
1350	LKTR	90						EF		26-Aug-05	E9EF	Roberts Inflow	SC	0			Photo 533
1351	LKTR	97						EF		26-Aug-05	E9EF	Roberts Inflow	SC	0			Photo 534
1352	ARCH	114						EF		26-Aug-05	E9EF	Roberts Inflow		0			Photo 534
1353	LKTR	103						EF		26-Aug-05	E9EF	Roberts Inflow		0			
1354	ARCH	114						EF		26-Aug-05	E9EF	Roberts Inflow		0			
1355	LKTR	110						EF		26-Aug-05	E9EF	Roberts Inflow		0			
1356	LKTR	104						EF		26-Aug-05	E9EF	Roberts Inflow		0			
1357	LKTR	756	3895	0.90		G	4430	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight
1358	LKTR	516	1370	1.00		G	4431	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight
1359	LKTR	387	640	1.10		G	4432	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight, Blind in right eye
1360	LKTR	467	1000	0.98		G	4319	Angling		27-Aug-05	E10AN	Roberts Lake		2	2005		Recapture (2005)
1361	LKTR	407	820	1.22		G	4433	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1362	LKTR	370	590	1.16		G	4334	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight
1363	LKTR	364	515	1.07		G	4335	Angling		27-Aug-05	E10AN	Roberts Lake		0	2005		Tight
1364	ARCH	172	75	1.47				EF		27-Aug-05	E7EF	Roberts Inflow		0			Photo 548
1365	LKTR	120						EF		27-Aug-05	E7EF	Roberts Inflow		0			Photo 550
1366	ARCH	95						EF		27-Aug-05	E7EF	Roberts Inflow		0			
1367	LKTR	75						EF		27-Aug-05	E7EF	Roberts Inflow		0			Photo 551, 552 Lower
1368	ARCH	73						EF		27-Aug-05	E7EF	Roberts Inflow		1			Photo 551, 552 Upper
1369	LKTR	815	6065	1.12		G	4436	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1370	LKTR	977	8665	0.93		G	4437	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1371	LKTR	750	4580	1.09			4439	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1372	LKTR	563	1810	1.01		G	4440	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1373	LKTR	689	3420	1.05		G	4441	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1374	LKTR	729	4300	1.11		G	4442	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1375	LKTR	775	5360	1.15		G	4443	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1376	LKTR	657	3455	1.22		G	4444	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1377	LKTR	806	5805	1.11		G	4144	Angling		27-Aug-05	RLAN-01	Roberts Lake		2	2004		Tight
1378	LKTR	872	7430	1.12		G	4258	Angling		27-Aug-05	RLAN-01	Roberts Lake		2	2005		Tight
1379	LKTR	774	5525	1.19		G	4447	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1380	LKTR	369	540	1.07		G	4448	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1381	LKTR	421	840	1.13		G	4449	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1382	LKTR	351	475	1.10		G	4450	Angling		27-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1383	ARCH	343	485	1.20		G	4410	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1384	LKTR	414	925	1.30		G	4036	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture
1385	LKTR	609	2460	1.09		G	4280	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1386	ARCH	641	2880	1.09	F	G	4405	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1387	LKTR	413	785	1.11		G	4035	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture, Milt
1388	LKTR	417	740	1.02		G	4340	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1389	ARCH	463	1020	1.03		G	4101	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture
1390	ARCH	543	1855	1.16	F	G	4355	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1391	ARCH	710	3905	1.09	F		4257	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	up	Recapture, Colouring up
1392	ARCH	620	2205	0.93	F	G	4311	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1393	ARCH	558	1725	0.99		G	3411	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2003	yes	Recapture
1394	ARCH	674	3100	1.01	F	G	4338	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1395	LKTR	446	1080	1.22		G	4289	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1396	ARCH	330	415	1.15		G	4451	TRAP	24	27-Aug-05	TU	Roberts Outflow		0	2005	up	
1397	LKTR	493	1235	1.03		G	3382	TRAP	24	27-Aug-05	TU	Roberts Outflow		2	2003	yes	Tight
1398	LKTR	431	970	1.21		W	2287	TRAP	24	27-Aug-05	TD	Roberts Outflow		2	2002	no	Recapture, Tight
1399	LKTR	455	945	1.00		G	4060	TRAP	24	27-Aug-05	TD	Roberts Outflow		2	2004		Recapture, Tight
1400	ARCH	590	1955	0.95	F	G	4452	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	
1401	LKTR	422	875	1.16		G	4143	TRAP	24	27-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, Tight
1402	ARCH	329	405	1.14		G	4237	TRAP	24	27-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture
1403	ARCH	329	415	1.17		G	4453	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	
1404	LKTR	487	1075	0.93		G	4454	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
1405	ARCH	597	2525	1.19		G	4455	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	
1406	ARCH	342	435	1.09		G	4193	TRAP	24	27-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture
1407	LKTR	460	1070	1.10		G	4456	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
1408	ARCH	264	190	1.03		G	4457	TRAP	24	27-Aug-05	TD	Roberts Outflow		0	2005	no	
1409	LKTR	455	945	1.00		G	4060	TRAP	25	29-Aug-05	TU	Roberts Outflow		2	2004	yes	Recapture
1410	ARCH	491	1220	1.03		G	4378	TRAP	25	29-Aug-05	TU	Roberts Outflow		2	2005	yes	Recapture
1411	ARCH	347	430	1.03		G	4236	TRAP	25	29-Aug-05	TU	Roberts Outflow		2	2004	up	Recapture
1412	ARCH	45						EF		29-Aug-05	RLEF-23	Roberts Lake		0			Photo 577 (lower)
1413	LKTR	41						EF		29-Aug-05	RLEF-23	Roberts Lake		0			Photo 577 (upper)
1414	LKTR	43						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1415	LKTR	37						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1416	LKTR	44						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1417	LKTR	36						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1418	LKTR	41						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1419	LKTR	43						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1420	LKTR	40						EF		29-Aug-05	RLEF-23	Roberts Lake		0			
1421	LKTR	106						EF		29-Aug-05	RLEF-24	Roberts Lake	SC	0			Photo 578
1422	LKTR	99						EF		29-Aug-05	RLEF-24	Roberts Lake	SC	0			
1423	ARCH	72						EF		29-Aug-05	RLEF-24	Roberts Lake	SC	0			Photo 579

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1424	LKTR	40						EF		29-Aug-05	RLEF-24	Roberts Lake		0			
1425	LKTR	45						EF		29-Aug-05	RLEF-24	Roberts Lake		0			
1426	LKTR	39						EF		29-Aug-05	RLEF-24	Roberts Lake		0			
1427	LKTR	42						EF		29-Aug-05	RLEF-24	Roberts Lake		0			
1428	LKTR	646	2695	1.00		G	4458	Angling		29-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1429	LKTR	810	5485	1.03		G	4459	Angling		29-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1430	LKTR	717	4425	1.20		G	4460	Angling		29-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1431	LKTR	417	795	1.10		G	4461	Angling		29-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1432	ARCH	324	395	1.16		G	4462	TRAP	26	29-Aug-05	TD	Roberts Outflow		0	2005	no	
1433	ARCH	428	775	0.99		G	4243	TRAP	26	29-Aug-05	TD	Roberts Outflow		2	2004	no	Recapture, scars, Photo 582
1434	ARCH	764	4500	1.01	M	G	4463	TRAP	27	30-Aug-05	TD	Roberts Outflow		0	2005	no	
1435	ARCH	305	320	1.13		G	4465	TRAP	27	30-Aug-05	TD	Roberts Outflow		0	2005	no	Photo 583
1436	ARCH	582	2080	1.06		G	4466	TRAP	27	30-Aug-05	TD	Roberts Outflow		0	2005	no	
1437	ARCH	710	5080	1.42	M	G	4307	TRAP	27	30-Aug-05	TD	Roberts Outflow		1	2005		deep body
1438	ARCH	308	305	1.04		G	4467	TRAP	27	30-Aug-05	TU	Roberts Outflow		0	2005	up	
1439	ARCH	348	480	1.14		G	4472	TRAP	27	30-Aug-05	TU	Roberts Outflow		0	2005	up	
1440	ARCH	331	350	0.97		G	4469	TRAP	27	30-Aug-05	TU	Roberts Outflow		2	2005	up	tag scar (old)
1441	ARCH	654	2625	0.94	F	G	4470	TRAP	27	30-Aug-05	TU	Roberts Outflow		0	2005	up	
1442	LKTR	77						EF		30-Aug-05	RLEF-21	Roberts Lake		0			Photo 585
1443	LKTR	71						EF		30-Aug-05	RLEF-21	Roberts Lake		0			
1444	LKTR	72						EF		30-Aug-05	RLEF-22	Roberts Lake		0			
1445	LKTR	382	645	1.16		G	4471	Angling		30-Aug-05	E7AN	Roberts Lake		0	2005		Hooked in gill
1446	LKTR	138						EF		30-Aug-05	RL-01	Roberts Lake		0			Photo 591, 592
1447	LKTR	118						EF		30-Aug-05	RLEF-01	Roberts Lake		0			
1448	ARCH	107						EF		30-Aug-05	RLEF-01	Roberts Lake		0			Photo 593
1449	ARCH	81						EF		30-Aug-05	RLEF-01	Roberts Lake		0			Photo 594
1450	LKTR	35						EF		30-Aug-05	RLEF-01	Roberts Lake		0			Photo 595
1451	LKTR	40						EF		30-Aug-05	RLEF-01	Roberts Lake		0			
1452	LKTR	37						EF		30-Aug-05	RLEF-01	Roberts Lake		0			Photo 596, 597
1453	LKTR	521	1585	1.12		G	4468	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1454	LKTR	842	6150	1.03		G	4473	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1455	LKTR	872	7430	1.12		G	4258	Angling		30-Aug-05	RLAN-01	Roberts Lake		2	2005		Recapture
1456	LKTR	720	5440	1.46		G	4474	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Robust, Thick tail, photo 598, 599
1457	LKTR	715	3885	1.06		G	4475	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1458	LKTR	745	4745	1.15		G	4476	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1459	LKTR	711				G	4477	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1460	LKTR	799	5885	1.15		G	4478	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1461	LKTR	665	2940	1.00		G	4479	Angling		30-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt (Lots)
1462	ARCH	284	260	1.14				TRAP	28	31-Aug-05	TD	Roberts Outflow	SC, OT	1			ST= 100% Tadpole Shrimp died in trap
1463	LKTR	673	2990	0.98		G	4480	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	Tight
1464	ARCH	318	385	1.20		G	4481	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005		Photo 601, 602 (parr marks)
1465	ARCH	235	135	1.04				TRAP	28	31-Aug-05	TD	Roberts Outflow		0			
1466	ARCH	468	1005	0.98		G	4482	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	
1467	ARCH	307	295	1.02		G	4483	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	
1468	ARCH	506	1420	1.10		G	3406	TRAP	28	31-Aug-05	TD	Roberts Outflow		2	2003		Recapture
1469	ARCH	309	305	1.03		G	4484	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	
1470	ARCH	275	190	0.91				TRAP	28	31-Aug-05	TD	Roberts Outflow		0			Photo 603 (parr marks)
1471	ARCH	296	240	0.93		G	4485	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	
1472	LKTR	392	740	1.23		G	4486	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005		Tight
1473	ARCH	310	320	1.07		G	4487	TRAP	28	31-Aug-05	TD	Roberts Outflow		0	2005	no	
1474	ARCH	503	1415	1.11	F	G	3406	TRAP	28	31-Aug-05	TU	Roberts Outflow		2	2003	yes	
1475	ARCH	81						EF		31-Aug-05	RLEF-02	Roberts Lake		0			Photo 607 (upper)
1476	LKTR	82						EF		31-Aug-05	RLEF-02	Roberts Lake		0			Photo 607(lower)
1477	LKTR	405	715	1.08		G	4488	FN		31-Aug-05	RLFN-01	Roberts Lake		0	2005		Tight, Old scars
1478	ARCH	192	65	0.92				FN		31-Aug-05	RLFN-01	Roberts Lake		0			Photo 608, 609, 610
1479	ARCH	50						EF		31-Aug-05	RLEF-03	Roberts Lake		0			Photo 614
1480	ARCH	46						EF		31-Aug-05	RLEF-03	Roberts Lake		0			Photo 615
1481	ARCH	46						EF		31-Aug-05	RLEF-03	Roberts Lake		0			
1482	ARCH	40						EF		31-Aug-05	RLEF-03	Roberts Lake		0			
1483	ARCH	43						EF		31-Aug-05	RLEF-03	Roberts Lake		0			
1484	ARCH	38						EF		31-Aug-05	RLEF-03	Roberts Lake		0			

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Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1485	ARCH	46						EF		31-Aug-05	RLEF-03	Roberts Lake		0			Photo 616
1486	ARCH	44						EF		31-Aug-05	RLEF-03	Roberts Lake		0			
1487	ARCH	40						EF		31-Aug-05	RLEF-03	Roberts Lake		0			Photo 617
1488	ARCH	45						EF		31-Aug-05	RLEF-03	Roberts Lake		0			
1489	LKTR	742	4135	1.01		G	4494	Angling		31-Aug-05	RLAN-01	Roberts Lake		0	2005		Milt
1490	LKTR	800	5840	1.14		G	4495	Angling		31-Aug-05	RLAN-01	Roberts Lake		0	2005		Tight
1491	ARCH	358	535	1.17		G	4497	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	
1492	LKTR	407	680	1.01		G	4498	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	Tight
1493	ARCH	530	1340	0.90		G	4499	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	Skinny
1494	LKTR	458	940	0.98		G	4500	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	Tight
1495	ARCH	337	425	1.11		G	4501	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	
1496	ARCH	345	445	1.08		G	4502	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	
1497	ARCH	387	565	0.97		G	4503	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	
1498	ARCH	302	305	1.11		G	4504	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005	no	
1499	ARCH	315	285	0.91		G	4505	TRAP	29	01-Sep-05	TD	Roberts Outflow		0	2005		
1500	LKTR	790	4510	0.91		G	4263	TRAP	29	01-Sep-05	TU	Roberts Outflow		2	2005	yes	Tag fell out, retagged recaptured 4506 tight
1501	ARCH	318	385	1.20		G	4481	TRAP	29	01-Sep-05	TU	Roberts Outflow		2	2005	yes	Recaptured
1502	LKTR	557	2220	1.28		G	4276	TRAP	29	01-Sep-05	TU	Roberts Outflow		2	2005	yes	Recaptured
1503	LKTR	392	740	1.23		G	4486	TRAP	29	01-Sep-05	TU	Roberts Outflow		2	2005	yes	
1504	LKTR	508	1735	1.32		G	4283	TRAP	29	01-Sep-05	TU	Roberts Outflow		2	2005	yes	Recapture
1505	LKTR	~700						Angling		01-Sep-05	DLAN-01	Doris Lake		0			Lost prior to measurment/photo 634
1506	LKTR	389	540	0.92			4507	EF		01-Sep-05	OGEF-01	Ogama Outflow		0	2005		Tight
1507	LKWH	272	250	1.24			4508	EF		01-Sep-05	OGEF-01	Ogama Outflow	SC	0	2005		
1508	NNST	83						EF		01-Sep-05	DLEF-02	Doris Lake		0			
1509	NNST	36						EF		01-Sep-05	DLEF-02	Doris Lake		0			
1510	LKTR	690	3035	0.92			4509	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1511	LKTR	443	1080	1.24			4510	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1512	LKTR	705	3555	1.01			4511	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1513	LKTR	713	3320	0.92			4512	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1514	LKTR	630	2365	0.95			4513	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1515	LKTR	640	2360	0.90			4514	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1516	LKTR	720	3325	0.89	M	G	4515	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1517	LKTR	722	3210	0.85			4516	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1518	LKTR	575	1905	1.00			4517	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1519	LKTR	671	2780	0.92			4518	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1520	LKTR	645	2430	0.91			4519	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1521	LKTR	702	3075	0.89			4520	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1522	LKTR	775	4100	0.88			4521	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1523	LKTR	677	2910	0.94			4522	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1524	LKTR	632	2335	0.92			4523	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1525	LKTR	721	3880	1.04			4524	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1526	LKTR	739	3600	0.89			4525	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1527	LKTR	683	3160	0.99			4526	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1528	LKTR	681	2825	0.89	F		4527	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Eggs
1529	LKTR	609	2165	0.96			4528	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1530	LKTR	675	3240	1.05			4530	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1531	LKTR	580	2250	1.15	F		4524	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Eggs
1532	LKTR	677	2385	0.77			4531	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1533	LKTR	667	2735	0.92			4532	Angling		02-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1534	NNST	49						EF		02-Sep-05	DLEF-03	Doris Lake		0			
1535	NNST	34						EF		02-Sep-05	DLEF-03	Doris Lake		0			
1536	NNST	37						EF		02-Sep-05	DLEF-03	Doris Lake		0			
1537	NNST	41						EF		02-Sep-05	DLEF-03	Doris Lake		0			
1538	NNST	34						EF		02-Sep-05	DLEF-03	Doris Lake		0			
1539	NNST	38						EF		02-Sep-05	DLEF-04	Doris Lake		0			
1540	NNST	35						EF		02-Sep-05	DLEF-04	Doris Lake		0			
1541	NNST	30						EF		02-Sep-05	DLEF-04	Doris Lake		0			
1542	NNST	32						EF		02-Sep-05	DLEF-04	Doris Lake		0			
1543	NNST	33						EF		02-Sep-05	DLEF-04	Doris Lake		0			
1544	LKWH	36						EF		02-Sep-05	DLEF-04	Doris Lake		1			Preserved

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1545	NNST	29						EF		02-Sep-05	DLEF-05	Doris Lake		0			
1546	LKTR	315	330	1.06		G	4533	EF		02-Sep-05	DLEF-06	Doris Lake		0	2005		
1547	LKTR	142	30	1.05				EF		02-Sep-05	DLEF-06	Doris Lake		0			Photo 652, 653
1548	NNST	56						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1549	NNST	40						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1550	NNST	27						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1551	NNST	33						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1552	NNST	24						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1553	NNST	25						EF		02-Sep-05	DLEF-06	Doris Lake		0			
1554	ARCH	463	995	1.00		G	4534	TRAP	30	02-Sep-05	TD	Roberts Outflow		0	2005		
1555	ARCH	392	605	1.00		G	4238	TRAP	30	02-Sep-05	TD	Roberts Outflow		2	2004	no	Recapture
1556	ARCH	285	235	1.02		G	4535	TRAP	30	02-Sep-05	TD	Roberts Outflow		0	2005	no	
1557	ARCH	276	230	1.09		G	4536	TRAP	30	02-Sep-05	TD	Roberts Outflow		0	2005	no	
1558	ARCH	326	350	1.01		G	4537	TRAP	30	02-Sep-05	TD	Roberts Outflow		0	2005		
1559	ARCH	275	205	0.99		G	4538	TRAP	30	02-Sep-05	TD	Roberts Outflow		0	2005	no	
1560	LKTR	300	265	0.98		G	4539	FN		03-Sep-05	RLFN-02	Roberts Lake		0	2005		
1561	LKTR	717	4425	1.20		G	4460	Angling		03-Sep-05	RLAN-01	Roberts Lake		2	2005		Recapture
1562	ARCH	623	2370	0.98		G	4540	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1563	ARCH	297	275	1.05		G	4541	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1564	ARCH	240	130	0.94				TRAP	31	03-Sep-05	TD	Roberts Outflow		0			
1565	ARCH	426	885	1.14		G	4542	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1566	LKTR	337	350	0.91		G	4543	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1567	ARCH	318	335	1.04		G	4544	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1568	ARCH	299	290	1.08		G	4545	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1569	ARCH	356	485	1.07		G	4546	TRAP	31	03-Sep-05	TD	Roberts Outflow		0	2005	no	
1570	ARCH	288	130	0.54				TRAP	31	03-Sep-05	TD	Roberts Outflow		0			
1571	ARCH	315	285	0.91		G	4505	TRAP	31	03-Sep-05	TU	Roberts Outflow		2	2005	yes	
1572	ARCH	326	350	1.01		G	4537	TRAP	31	03-Sep-05	TU	Roberts Outflow		2	2005	yes	
1573	NNST	29						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1574	NNST	25						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1575	NNST	32						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1576	NNST	24						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1577	NNST	25						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1578	NNST	27						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1579	NNST	26						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1580	NNST	30						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1581	NNST	28						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1582	NNST	34						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1583	NNST	29						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1584	NNST	27						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1585	NNST	29						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1586	NNST	30						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1587	NNST	25						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1588	NNST	32						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1589	NNST	28						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1590	NNST	31						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1591	NNST	21						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1592	NNST	30						EF		03-Sep-05	DLEF-07	Doris Lake		0			
1593	NNST	39						EF		03-Sep-05	DLEF-08	Doris Lake		0			
1594	NNST	35						EF		03-Sep-05	DLEF-08	Doris Lake		0			
1595	NNST	27						EF		03-Sep-05	DLEF-08	Doris Lake		0			
1596	ARCH	219	100	0.95				TRAP	32	04-Sep-05	TD	Roberts Outflow		0			
1597	ARCH	261	185	1.04				TRAP	32	04-Sep-05	TD	Roberts Outflow		0			
1598	ARCH	254	160	0.98				TRAP	32	04-Sep-05	TD	Roberts Outflow		0			
1599	ARCH	293	230	0.91		G	4547	TRAP	32	04-Sep-05	TD	Roberts Outflow		0	2005	no	
1600	ARCH	290	220	0.90		G	4548	TRAP	32	04-Sep-05	TD	Roberts Outflow		0	2005	no	
1601	ARCH	261	175	0.98				TRAP	32	04-Sep-05	TD	Roberts Outflow		0			
1602	ARCH	291	245	0.99		G	4549	TRAP	32	04-Sep-05	TD	Roberts Outflow		0	2005	no	
1603	ARCH	307	305	1.05		G	4649	TRAP	32	04-Sep-05	TD	Roberts Outflow		0	2005	no	
1604	ARCH	228	130	1.10				TRAP	32	04-Sep-05	TD	Roberts Outflow		0			
1605	ARCH	463	995	1.00		G	4534	TRAP	32	04-Sep-05	TU	Roberts Outflow		2	2005	yes	
1606	ARCH	260	175	1.00				TRAP	32	04-Sep-05	TU	Roberts Outflow		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1607	ARCH	228	125	1.05				TRAP	32	04-Sep-05	TU	Roberts Outflow		0			
1608	NNST	53						EF		04-Sep-05	DLEF-09	Doris Lake		0			
1609	LKTR	273	185	0.91				EF		04-Sep-05	DLEF-11	Doris Lake		0			Deep scars on peduncle
1610	LKTR	703	3390	0.98		G	4550	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1611	LKTR	661	2465	0.85		G	4552	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1612	LKTR	791	4505	0.91		G	4553	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Eggs
1613	LKTR	658	2740	0.96		G	4554	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1614	LKTR	611	2055	0.90		G	4555	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1615	LKTR	764	4215	0.95		G	4556	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1616	LKTR	720	3325	0.89	M	G	4515	Angling		04-Sep-05	DLAN-02	Doris Lake		2	2005		Recapture
1617	LKTR	673	2910	0.95		G	4557	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1618	LKTR	572	1630	0.87		G	4558	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Milt
1619	LKTR	451	1365	1.49		G	4559	Angling		04-Sep-05	DLAN-02	Doris Lake		0	2005		Tight, Fat
1620	ARCH	363	445	0.93		G	4560	TRAP	33	05-Sep-05	TD	Roberts Outflow		0	2005	no	Scars photo (Kurts camera 1403)
1621	ARCH	350	445	1.04		G	4561	TRAP	33	05-Sep-05	TD	Roberts Outflow		0	2005	no	
1622	ARCH	331	380	1.05		G	4234	TRAP	33	05-Sep-05	TD	Roberts Outflow		2	2004	no	Recapture
1623	ARCH	309	285	0.97		G	4562	TRAP	33	05-Sep-05	TD	Roberts Outflow		0	2005	no	
1624	ARCH	274	190	0.92				TRAP	33	05-Sep-05	TD	Roberts Outflow		0			
1625	ARCH	292	250	1.00		G	4563	TRAP	33	05-Sep-05	TD	Roberts Outflow		0	2005	no	
1626	ARCH	299	295	1.10		G	4564	TRAP	33	05-Sep-05	TD	Roberts Outflow		0	2005	no	
1627	ARCH	265	165	0.89				TRAP	33	05-Sep-05	TD	Roberts Outflow		0			
1628	ARCH	260	180	1.02				TRAP	33	05-Sep-05	TU	Roberts Outflow		0			
1629	NNST	25						MT		05-Sep-05	DLMT-02	Doris Lake		0			Near Ogama Outflow
1630	NNST	27						MT		05-Sep-05	DLMT-02	Doris Lake		0			Near Ogama Outflow
1631	LKTR	376	600	1.13		G	4565	EF		05-Sep-05	DLEF-12	Doris Lake		0	2005		Tight
1632	CISC	259	205	1.18		G	4566	EF		05-Sep-05	DLEF-13	Doris Lake		0	2005		Scales
1633	CISC	212	95	1.00				EF		05-Sep-05	DLEF-14	Doris Lake		0			Scales
1634	LKTR	462	1030	1.04		G	4567	Angling		05-Sep-05	DOAN-01	Doris Outflow		0	2005		Tight
1635	LKTR	508	1435	1.09		G	4568	EF		05-Sep-05	DOEF-01	Doris Outflow		0	2005		Tight
1636	NNST	25						MT		05-Sep-05	DLMT-01	Doris Lake		0			Tail Outflow
1637	NNST	30						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1638	NNST	26						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1639	NNST	27						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1640	NNST	22						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1641	NNST	28						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1642	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1643	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1644	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1645	NNST	30						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1646	NNST	30						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1647	NNST	27						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1648	NNST	25						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1649	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1650	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1651	NNST	19						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1652	NNST	44						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1653	NNST	26						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1654	NNST	26						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1655	NNST	27						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1656	NNST	23						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1657	NNST	27						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1658	NNST	18						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1659	NNST	23						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1660	NNST	25						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1661	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1662	NNST	27						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1663	NNST	32						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1664	NNST	22						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1665	NNST	23						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1666	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1667	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1668	NNST	20						MT		05-Sep-05	DLMT-01	Doris Lake		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1669	NNST	28						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1670	NNST	19						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1671	NNST	22						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1672	NNST	26						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1673	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1674	NNST	30						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1675	NNST	23						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1676	NNST	25						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1677	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1678	NNST	36						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1679	NNST	20						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1680	NNST	33						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1681	NNST	28						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1682	NNST	24						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1683	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1684	NNST	29						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1685	NNST	25						MT		05-Sep-05	DLMT-01	Doris Lake		0			
1686	LKTR	687	3040	0.94	M	G	4569	Angling		05-Sep-05	DLAN-01	Doris Lake		0	2005		Spent? Milt
1687	LKTR	803	5170	1.00		G	4570	Angling		05-Sep-05	DLAN-01	Doris Lake		0	2005		Tight
1688	ARCH	245	140	0.95				TRAP	34	06-Sep-05	TD	Roberts Outflow		0			
1689	ARCH	284	210	0.92		G	4571	TRAP	34	06-Sep-05	TD	Roberts Outflow		0	2005		
1690	ARCH	710	5080	1.42	M	G	4307	TRAP	34	06-Sep-05	TU	Roberts Outflow		2	2005	yes	
1691	ARCH	620	2595	1.09	F		4572	TRAP	34	06-Sep-05	TU	Roberts Outflow		0	2005	up	Tight
1692	LKTR	371	515	1.01		G	4573	FN		06-Sep-05	RLFN-02	Roberts Lake		0	2005		Tight
1693	LKTR	395	635	1.03			4574	FN		06-Sep-05	RLFN-02	Roberts Lake		0	2005		Tight
1694	LKTR	382	570	1.02			4575	FN		06-Sep-05	RLFN-02	Roberts Lake		0	2005		Tight
1695	LKTR	187	55	0.84				FN		06-Sep-05	RLFN-02	Roberts Lake		0			Photo 1404, 1405, 1406 (lower)
1696	ARCH	195	65	0.88				FN		06-Sep-05	RLFN-02	Roberts Lake		0			Photo 1404, 1405, 1406 (upper)
1697	ARCH	237	125	0.94				TRAP	35	07-Sep-05	TD	Roberts Outflow		0			
1698	LKTR	463	1000	1.01		G	3384	TRAP	35	07-Sep-05	TD	Roberts Outflow		2	2003	no	Old Talon scars anterior of dorsal
1699	ARCH	210	105	1.13				EF	35	07-Sep-05	ROEF-03	Roberts Outflow		0			
1700	ARCH	509	1430	1.08	F		4576	EF	35	07-Sep-05	ROEF-03	Roberts Outflow		0	2005		Fresh deep talon scars, photo 1410, 1411
1701	ARCH	848	5665	0.93	M	G	4577	EF	35	07-Sep-05	ROEF-03	Roberts Outflow		0	2005		Coloured (red) milt Photo 1412-1419
1702	ARCH	284	210	0.92		G	4571	TRAP	35	07-Sep-05	TU	Roberts Outflow		2	2005	yes	
1703	ARCH	243	140	0.98				TRAP	35	07-Sep-05	TU	Roberts Outflow		0			
1704	ARCH	356	445	0.99			4578	TRAP	35	07-Sep-05	TU	Roberts Outflow		0	2005	up	
1705	LKTR	84						EF		07-Sep-05	RLEF-04	Roberts Lake		0			Photo 1420
1706	ARCH	86						EF		07-Sep-05	RLEF-04	Roberts Lake		0			Photo 1423
1707	ARCH	178	60	1.06				EF		07-Sep-05	RLEF-06	Roberts Lake	SC	0			
1708	ARCH	94	10	1.20				EF		07-Sep-05	RLEF-06	Roberts Lake	SC	0			
1709	LKTR	573	2255	1.20	F	G	4579	Angling		07-Sep-05	RLAN-02	Roberts Lake		0	2005		Ripe eggs
1710	ARCH	237	130	0.98				TRAP	36	08-Sep-05	TD	Roberts Outflow		0			
1711	ARCH	322	310	0.93			4580	TRAP	36	08-Sep-05	TD	Roberts Outflow		0	2005	no	
1712	LKTR	647	2695	1.00			4581	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Tight (spentÉ)
1713	LKTR	394	740	1.21	M		4582	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1714	LKTR	482	1220	1.09	M		4583	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1715	LKTR	743	3995	0.97	M		4584	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1716	LKTR	405	730	1.10	M		4585	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1717	LKTR	159	25	0.62				EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1718	LKTR	145	30	0.98				EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1719	ARCH	138						EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1720	ARCH	51						EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1721	ARCH	50						EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1722	ARCH	49						EF		08-Sep-05	RLEF-08	Roberts Lake		0			
1723	ARCH	48						EF		08-Sep-05	RLEF-08	Roberts Lake		1			Preserved in Clove Oil
1724	ARCH	44						EF		08-Sep-05	RLEF-08	Roberts Lake		1			Preserved in Clove Oil
1725	LKTR	207	95	1.07				EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1726	LKTR	268	195	1.01		G	4586	EF		08-Sep-05	RLEF-09	Roberts Lake		0	2005		
1727	ARCH	49						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1728	ARCH	47						EF		08-Sep-05	RLEF-09	Roberts Lake		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1729	ARCH	39						EF		08-Sep-05	RLEF-09	Roberts Lake		1			Photo 1445, 1446 Preserved in Clove Oil
1730	ARCH	49						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1731	ARCH	47						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1732	ARCH	50						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1733	ARCH	48						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1734	ARCH	46						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1735	ARCH	45						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1736	ARCH	46						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1737	ARCH	44						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1738	ARCH	43						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1739	ARCH	46						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1740	ARCH	43						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1741	ARCH	45						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1742	ARCH	44						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1743	ARCH	49						EF		08-Sep-05	RLEF-09	Roberts Lake		1			Preserved in Clove Oil
1744	ARCH	45						EF		08-Sep-05	RLEF-09	Roberts Lake		1			Preserved in Clove Oil
1745	NNST	22						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1746	NNST	34						EF		08-Sep-05	RLEF-09	Roberts Lake		0			
1747	ARCH	44						EF		08-Sep-05	RLEF-10	Roberts Lake		0			
1748	ARCH	85						EF		08-Sep-05	RLEF-10	Roberts Lake		0			
1749	ARCH	78						EF		08-Sep-05	RLEF-10	Roberts Lake		1			Preserved in Clove Oil
1750	ARCH	49						EF		08-Sep-05	RLEF-10	Roberts Lake		0			
1751	ARCH	49						EF		08-Sep-05	RLEF-10	Roberts Lake		1			Preserved in Clove Oil
1752	ARCH	53						EF		08-Sep-05	RLEF-10	Roberts Lake		1			Preserved in Clove Oil
1753	LKTR	809	5185	0.98	M	G	4587	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1754	LKTR	403	735	1.12		G	4588	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Tight
1755	LKTR	731	4010	1.03	M	G	4589	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1756	LKTR	399	730	1.15	F	G	4590	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Ripe eggs
1757	LKTR	707	3645	1.03	M	G	4591	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1758	LKTR	816	5590	1.03	M	G	4592	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1759	LKTR	660	2730	0.95	M	G	4593	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1760	LKTR	857	6390	1.02	M	G	4595	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1761	LKTR	580	2005	1.03	M			Angling		08-Sep-05	RLAN-02	Roberts Lake	OT	1			Milt ST= 0
1762	LKTR	627	2360	0.96	M	G	4596	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt S
1763	LKTR	888	6990	1.00	M	G	4597	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1764	LKTR	512	1475	1.10	F	G	4599	Angling		08-Sep-05	RLAN-02	Roberts Lake		0	2005		Eggs spent
1765	ARCH	147						EF		09-Sep-05	E04EF	Pelvic Outflow		0			
1766	ARCH	127						EF		09-Sep-05	E04EF	Pelvic Outflow		0			
1767	ARCH	153						EF		09-Sep-05	E04EF	Pelvic Outflow		0			
1768	ARCH	180						EF		09-Sep-05	E04EF	Pelvic Outflow		0			
1769	CISC	55						EF		09-Sep-05	PLEF-01	Pelvic Lake		0			
1770	LKTR	755	4240	0.99			4650	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Tight
1771	LKTR	653	2665	0.96	M		4651	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1772	LKTR	496	1345	1.10	M		4652	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1773	LKTR	670	3125	1.04	M		4653	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1774	LKTR	419	855	1.16	M		4654	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1775	LKTR	741	4275	1.05	M		4655	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1776	LKTR	894	6420	0.90	M		4656	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt Photo 1479, 1480
1777	LKTR	407	785	1.16	M		4657	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1778	LKTR	799	5425	1.06	F		4658	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		eggs
1779	LKTR	394	590	0.96	M		4659	Angling		09-Sep-05	RLAN-02	Roberts Lake		0	2005		Milt
1780	LKTR	325	325	0.95		G	4660	FN		09-Sep-05	RLFN-03	Roberts Lake		0	2005		
1781	LKTR	265	200	1.07		G	4661	FN		09-Sep-05	RLFN-03	Roberts Lake		0	2005		
1782	LKTR	261	170	0.96				FN		09-Sep-05	RLFN-03	Roberts Lake		0			
1783	LKTR	202	80	0.97				FN		09-Sep-05	RLFN-03	Roberts Lake		0			Parr marks
1784	ARCH	327	375	1.07			4600	TRAP	37	10-Sep-05	TD	Roberts Outflow		0	2005	no	
1785	ARCH	288	230	0.96			4601	TRAP	37	10-Sep-05	TD	Roberts Outflow		0	2005	no	
1786	ARCH	298	260	0.98			4602	TRAP	37	10-Sep-05	TD	Roberts Outflow		0	2005	no	
1787	ARCH	279	220	1.01			4603	TRAP	37	10-Sep-05	TD	Roberts Outflow		0	2005	no	
1788	ARCH	239	135	0.99				TRAP	37	10-Sep-05	TD	Roberts Outflow		0			
1789	LKTR	396	540	0.87			4604	TRAP	37	10-Sep-05	TD	Roberts Outflow		0	2005	no	Skinny

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1790	ARCH	274	180	0.88				TRAP	37	10-Sep-05	TD	Roberts Outflow		0			upper caudal fin missing
1791	LKTR	197	85	1.11				EF		10-Sep-05	RLEF-13	Roberts Lake		0			
1792	ARCH	93						EF		10-Sep-05	RLEF-13	Roberts Lake		0			Photo 1488, 1489
1793	ARCH	90						EF		10-Sep-05	RLEF-13	Roberts Lake		0			
1794	ARCH	88						EF		10-Sep-05	RLEF-13	Roberts Lake		0			
1795	ARCH	49						EF		10-Sep-05	RLEF-13	Roberts Lake		0			Photo 1490, 1491
1796	ARCH	50						EF		10-Sep-05	RLEF-13	Roberts Lake		0			
1797	LKTR	349	420	0.99		G	4605	EF		10-Sep-05	RLEF-15	Roberts Lake		0	2005		
1798	LKTR	280	235	1.07		G	4606	EF		10-Sep-05	RLEF-15	Roberts Lake		0	2005		
1799	LKTR	234	125	0.98				EF		10-Sep-05	RLEF-15	Roberts Lake		0			
1800	ARCH	164	55	1.25				EF		10-Sep-05	RLEF-15	Roberts Lake		0			
1801	LKTR	253	205	1.27		G	4607	EF		10-Sep-05	RLEF-16	Roberts Lake		0	2005		
1802	ARCH	89						EF		10-Sep-05	RLEF-16	Roberts Lake		0			
1803	ARCH	92						EF		10-Sep-05	RLEF-18	Roberts Lake		0			
1804	NNST	34						EF		10-Sep-05	RLEF-18	Roberts Lake		0			
1805	LKTR	213	105	1.09				EF		10-Sep-05	RLEF-19	Roberts Lake		0			
1806	ARCH	117						EF		10-Sep-05	RLEF-19	Roberts Lake		0			
1807	ARCH	132						EF		10-Sep-05	RLEF-19	Roberts Lake		0			
1808	ARCH	52						EF		10-Sep-05	RLEF-20	Roberts Lake		0			
1809	ARCH	107						EF		10-Sep-05	RLEF-20	Roberts Lake		0			
1810	LKTR	208	85	0.94				FN		11-Sep-05	RLFN-04	Roberts Lake		0			Had ARCH in throat
1811	LKTR	196	80	1.06				FN		11-Sep-05	RLFN-04	Roberts Lake		0			
1812	ARCH	119	20	1.19				FN		11-Sep-05	RLFN-04	Roberts Lake		1			In throat of LKTR
1813	ARCH	53						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1814	ARCH	171	45	0.90				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1815	ARCH	56						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1816	ARCH	99	10	1.03				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1817	ARCH	144	30	1.00				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1818	ARCH	155	35	0.94				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1819	ARCH	124	20	1.05				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1820	ARCH	82						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1821	ARCH	105	15	1.30				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1822	ARCH	46						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1823	ARCH	99	10	1.03				EF		11-Sep-05	ROEF-01	Roberts Outflow		1			Preserved
1824	ARCH	147	35	1.10				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1825	ARCH	169	45	0.93				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1826	ARCH	131	25	1.11				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1827	ARCH	107	10	0.82				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1828	ARCH	156	40	1.05				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1829	ARCH	118	15	0.91				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1830	ARCH	131	20	0.89				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1831	ARCH	47						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1832	ARCH	48						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1833	ARCH	153	30	0.84				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1834	ARCH	129	20	0.93				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1835	ARCH	113	15	1.04				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1836	ARCH	110	10	0.75				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1837	ARCH	114	15	1.01				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1838	ARCH	48						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1839	ARCH	56						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1840	ARCH	104	15	1.33				EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1841	NNST	23						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1842	NNST	25						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1843	NNST	23						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1844	NNST	29						EF		11-Sep-05	ROEF-01	Roberts Outflow		0			
1845	LKTR	673	2990	0.98		G	4480	EF		11-Sep-05	ROEF-01	Roberts Outflow		2	2005		
1846	LKTR	390	645	1.09		G	4608	TRAP	38	11-Sep-05	TD	Roberts Outflow		0	2005	no	
1847	ARCH	245	160	1.09				TRAP	38	11-Sep-05	TD	Roberts Outflow		0			
1848	ARCH	237	140	1.05				TRAP	38	11-Sep-05	TD	Roberts Outflow		0			
1849	ARCH	260	190	1.08				TRAP	38	11-Sep-05	TD	Roberts Outflow		0			
1850	ARCH	360	440	0.94		G	4609	TRAP	39	12-Sep-05	TD	Roberts Outflow		0	2005	no	
1851	LKTR	421	840	1.13		G	4610	TRAP	39	12-Sep-05	TD	Roberts Outflow		0	2005	no	Tight

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Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1852	LKTR	434	945	1.16	F	G	4611	Angling		16-Sep-05	DLAN-01	Doris Lake		0	2005		Ripe
1853	LKTR	788	4060	0.83		G	4612	Angling		16-Sep-05	DLAN-01	Doris Lake		0	2005		
1854	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1855	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1856	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1857	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1858	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1859	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1860	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1861	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1862	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1863	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1864	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1865	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1866	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1867	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1868	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1869	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1870	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1871	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1872	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1873	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1874	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1875	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1876	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1877	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1878	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1879	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1880	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1881	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1882	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1883	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1884	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1885	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1886	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1887	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1888	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1889	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1890	SFCD							LFN	2	09-Aug-05	RBFN-EB	Roberts Bay		0			
1891	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1892	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1893	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1894	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1895	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1896	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1897	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1898	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1899	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1900	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1901	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1902	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1903	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1904	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1905	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1906	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1907	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1908	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1909	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1910	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1911	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1912	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1913	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1914	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1915	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1916	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1917	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1918	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1919	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1920	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1921	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1922	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1923	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1924	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1925	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1926	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1927	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1928	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1929	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1930	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1931	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1932	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1933	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1934	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1935	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1936	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1937	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1938	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1939	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1940	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1941	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1942	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1943	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1944	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1945	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1946	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1947	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1948	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1949	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1950	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1951	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1952	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1953	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1954	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1955	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1956	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1957	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1958	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1959	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1960	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1961	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1962	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1963	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1964	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1965	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1966	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1967	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1968	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1969	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1970	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1971	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1972	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1973	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1974	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1975	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
1976	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1977	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1978	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1979	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1980	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1981	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1982	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1983	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1984	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1985	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1986	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1987	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1988	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1989	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1990	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1991	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1992	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1993	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1994	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1995	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1996	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1997	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1998	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
1999	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2000	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2001	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2002	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2003	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2004	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2005	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2006	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2007	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2008	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2009	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2010	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2011	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2012	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2013	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2014	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2015	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2016	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2017	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2018	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2019	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2020	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2021	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2022	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2023	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2024	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2025	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2026	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2027	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2028	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2029	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2030	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2031	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2032	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2033	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2034	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2035	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2036	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2037	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2038	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2039	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2040	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2041	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2042	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2043	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2044	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2045	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2046	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2047	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2048	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2049	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2050	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2051	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2052	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2053	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2054	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2055	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2056	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2057	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2058	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2059	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2060	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2061	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2062	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2063	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2064	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2065	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2066	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2067	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2068	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2069	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2070	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2071	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2072	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2073	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2074	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2075	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2076	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2077	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2078	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2079	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2080	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2081	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2082	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2083	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2084	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2085	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2086	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2087	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2088	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2089	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2090	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2091	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2092	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2093	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2094	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2095	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2096	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2097	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2098	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2099	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2100	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2101	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2102	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2103	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2104	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2105	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2106	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2107	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2108	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2109	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2110	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2111	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2112	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2113	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2114	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2115	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2116	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2117	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2118	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2119	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2120	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2121	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2122	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2123	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2124	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2125	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2126	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2127	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2128	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2129	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2130	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2131	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2132	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2133	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2134	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2135	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2136	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2137	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2138	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2139	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2140	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2141	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2142	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2143	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2144	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2145	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2146	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2147	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2148	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2149	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2150	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2151	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2152	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2153	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2154	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2155	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2156	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2157	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2158	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2159	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2160	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2161	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2162	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2163	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2164	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2165	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2166	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2167	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2168	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2169	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2170	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2171	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2172	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2173	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2174	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2175	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2176	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2177	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2178	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2179	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2180	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2181	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2182	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2183	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2184	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2185	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2186	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2187	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2188	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2189	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2190	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2191	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2192	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2193	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2194	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2195	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2196	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2197	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2198	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2199	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2200	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2201	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2202	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2203	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2204	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2205	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2206	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2207	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2208	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2209	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2210	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2211	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2212	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2213	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2214	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2215	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2216	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2217	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2218	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2219	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2220	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2221	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2222	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2223	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2224	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2225	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2226	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2227	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2228	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2229	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2230	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2231	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2232	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2233	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2234	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2235	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2236	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2237	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2238	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2239	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2240	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2241	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2242	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2243	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2244	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2245	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2246	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2247	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2248	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2249	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2250	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2251	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2252	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2253	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2254	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2255	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2256	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2257	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2258	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2259	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2260	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2261	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2262	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2263	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2264	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2265	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2266	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2267	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2268	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2269	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2270	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2271	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2272	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2273	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2274	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2275	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2276	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2277	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2278	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2279	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2280	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2281	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2282	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2283	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2284	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2285	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2286	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2287	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2288	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2289	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2290	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2291	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2292	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2293	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2294	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2295	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2296	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2297	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2298	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2299	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2300	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2301	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2302	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2303	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2304	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2305	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2306	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2307	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2308	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2309	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2310	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2311	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2312	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2313	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2314	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2315	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2316	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2317	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2318	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2319	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2320	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2321	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2322	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2323	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2324	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2325	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2326	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2327	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2328	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2329	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2330	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2331	SFCD							LFN	3	10-Aug-05	RBFN-EB	Roberts Bay		0			
2332	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2333	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2334	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2335	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2336	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2337	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2338	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2339	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2340	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2341	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2342	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2343	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2344	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2345	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2346	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2347	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2348	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2349	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2350	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2351	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2352	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2353	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2354	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2355	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2356	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2357	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2358	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2359	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2360	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2361	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2362	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2363	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2364	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2365	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2366	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2367	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2368	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2369	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2370	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2371	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2372	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2373	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2374	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2375	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2376	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2377	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2378	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2379	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2380	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2381	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2382	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2383	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2384	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2385	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2386	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2387	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2388	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2389	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2390	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2391	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2392	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2393	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2394	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2395	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2396	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2397	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2398	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2399	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2400	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2401	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2402	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2403	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2404	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2405	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2406	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2407	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2408	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2409	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2410	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2411	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2412	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2413	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2414	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2415	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2416	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2417	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2418	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2419	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2420	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2421	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2422	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2423	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2424	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2425	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2426	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2427	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2428	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2429	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2430	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2431	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2432	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2433	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2434	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2435	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2436	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2437	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2438	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2439	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2440	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2441	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2442	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2443	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2444	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2445	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2446	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2447	SFCD							LFN	3	10-Aug-05	RBFN-WB	Roberts Bay		0			
2448	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2449	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2450	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2451	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2452	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2453	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2454	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2455	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2456	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2457	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2458	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2459	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2460	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2461	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2462	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2463	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2464	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2465	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2466	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2467	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2468	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2469	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2470	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2471	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2472	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2473	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2474	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2475	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2476	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2477	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2478	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2479	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2480	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2481	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2482	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2483	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2484	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2485	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2486	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2487	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2488	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2489	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2490	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2491	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2492	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2493	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2494	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2495	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2496	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2497	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2498	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2499	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2500	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2501	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2502	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2503	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2504	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2505	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2506	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2507	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2508	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2509	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2510	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2511	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2512	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2513	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2514	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2515	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2516	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2517	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2518	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2519	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2520	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2521	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2522	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2523	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2524	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2525	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2526	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2527	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2528	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2529	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2530	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2531	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2532	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2533	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2534	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2535	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2536	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2537	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2538	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2539	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2540	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2541	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2542	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2543	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2544	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2545	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2546	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2547	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2548	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2549	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2550	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2551	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2552	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2553	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2554	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2555	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2556	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2557	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2558	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2559	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2560	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2561	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2562	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2563	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2564	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2565	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2566	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2567	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2568	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2569	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2570	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2571	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2572	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2573	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2574	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2575	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2576	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2577	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2578	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2579	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2580	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2581	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2582	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2583	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2584	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2585	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2586	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2587	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2588	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2589	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2590	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2591	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2592	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2593	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2594	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2595	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2596	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2597	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2598	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2599	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2600	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2601	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2602	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2603	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2604	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2605	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2606	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2607	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2608	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2609	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2610	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2611	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2612	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2613	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2614	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2615	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2616	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2617	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2618	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2619	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2620	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2621	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2622	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2623	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2624	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2625	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2626	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2627	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2628	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2629	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2630	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2631	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2632	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2633	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2634	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2635	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2636	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2637	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2638	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2639	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2640	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2641	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2642	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2643	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2644	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2645	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2646	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2647	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2648	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2649	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2650	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2651	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2652	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2653	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2654	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2655	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2656	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2657	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2658	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2659	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2660	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2661	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2662	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2663	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2664	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2665	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2666	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2667	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2668	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2669	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2670	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2671	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2672	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2673	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2674	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2675	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2676	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2677	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2678	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2679	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2680	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2681	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2682	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2683	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2684	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2685	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2686	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2687	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2688	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2689	SFCD							LFN	4	11-Aug-05	RBFN-EB	Roberts Bay		0			
2690	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2691	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2692	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2693	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2694	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2695	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2696	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2697	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2698	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2699	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2700	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2701	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2702	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2703	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2704	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2705	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2706	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2707	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2708	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2709	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2710	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2711	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2712	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2713	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2714	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2715	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2716	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2717	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2718	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2719	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2720	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2721	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2722	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2723	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2724	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2725	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2726	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2727	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2728	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2729	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2730	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2731	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2732	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2733	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2734	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2735	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2736	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2737	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2738	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2739	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2740	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2741	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2742	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2743	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2744	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2745	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2746	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2747	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2748	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2749	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2750	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2751	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2752	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2753	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2754	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2755	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2756	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2757	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2758	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2759	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2760	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2761	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2762	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2763	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2764	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2765	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2766	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2767	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2768	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2769	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2770	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2771	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2772	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2773	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2774	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2775	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2776	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2777	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2778	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2779	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2780	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2781	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2782	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2783	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2784	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2785	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2786	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2787	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2788	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2789	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2790	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2791	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2792	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2793	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2794	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2795	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2796	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2797	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2798	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2799	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2800	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2801	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2802	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2803	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2804	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2805	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2806	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2807	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2808	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2809	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2810	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2811	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2812	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2813	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2814	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2815	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2816	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2817	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2818	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2819	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2820	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2821	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2822	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2823	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2824	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2825	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2826	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2827	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2828	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2829	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2830	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2831	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2832	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2833	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2834	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2835	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2836	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2837	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2838	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2839	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2840	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2841	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2842	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2843	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2844	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2845	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2846	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2847	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2848	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2849	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2850	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2851	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2852	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2853	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2854	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2855	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2856	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2857	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2858	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2859	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2860	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2861	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2862	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2863	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2864	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2865	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2866	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2867	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2868	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2869	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2870	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2871	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2872	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2873	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2874	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2875	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2876	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2877	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2878	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2879	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2880	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2881	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2882	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2883	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2884	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2885	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2886	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2887	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2888	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2889	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2890	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2891	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2892	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2893	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2894	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2895	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2896	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2897	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2898	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2899	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2900	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2901	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2902	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2903	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2904	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2905	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2906	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2907	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2908	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2909	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2910	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2911	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2912	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2913	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2914	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2915	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2916	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2917	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2918	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2919	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2920	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2921	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2922	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2923	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2924	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2925	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2926	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2927	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2928	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2929	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2930	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2931	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2932	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2933	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2934	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2935	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2936	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2937	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2938	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2939	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2940	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2941	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2942	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2943	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2944	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2945	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2946	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2947	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2948	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2949	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2950	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2951	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2952	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2953	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2954	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2955	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2956	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2957	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2958	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2959	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2960	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2961	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2962	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2963	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2964	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2965	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2966	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2967	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
2968	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2969	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2970	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2971	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2972	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2973	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2974	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2975	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2976	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2977	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2978	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2979	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2980	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2981	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2982	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2983	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2984	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2985	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2986	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2987	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2988	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2989	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2990	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2991	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2992	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2993	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2994	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2995	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2996	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2997	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2998	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
2999	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3000	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3001	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3002	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3003	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3004	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3005	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3006	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3007	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3008	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3009	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3010	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3011	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3012	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3013	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3014	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3015	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3016	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3017	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3018	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3019	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3020	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3021	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3022	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3023	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3024	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3025	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3026	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3027	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3028	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3029	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3030	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3031	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3032	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3033	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3034	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3035	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3036	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3037	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3038	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3039	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3040	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3041	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3042	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3043	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3044	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3045	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3046	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3047	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3048	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3049	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3050	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3051	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3052	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3053	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3054	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3055	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3056	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3057	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3058	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3059	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3060	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3061	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3062	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3063	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3064	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3065	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3066	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3067	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3068	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3069	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3070	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3071	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3072	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3073	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3074	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3075	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3076	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3077	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3078	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3079	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3080	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3081	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3082	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3083	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3084	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3085	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3086	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3087	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3088	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3089	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3090	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3091	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3092	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3093	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3094	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3095	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3096	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3097	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3098	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3099	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3100	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3101	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3102	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3103	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3104	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3105	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3106	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3107	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3108	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3109	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3110	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3111	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3112	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3113	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3114	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3115	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3116	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3117	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3118	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3119	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3120	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3121	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3122	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3123	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3124	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3125	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3126	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3127	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3128	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3129	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3130	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3131	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3132	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3133	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3134	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3135	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3136	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3137	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3138	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3139	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3140	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3141	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3142	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3143	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3144	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3145	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3146	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3147	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3148	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3149	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3150	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3151	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3152	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3153	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3154	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3155	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3156	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3157	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3158	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3159	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3160	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3161	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3162	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3163	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3164	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3165	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3166	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3167	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3168	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3169	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3170	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3171	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3172	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3173	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3174	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3175	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3176	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3177	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3178	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3179	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3180	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3181	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3182	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3183	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3184	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3185	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3186	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3187	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3188	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3189	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3190	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3191	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3192	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3193	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3194	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3195	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3196	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3197	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3198	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3199	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3200	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3201	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3202	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3203	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3204	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3205	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3206	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3207	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3208	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3209	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3210	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3211	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3212	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3213	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3214	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3215	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3216	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3217	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3218	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3219	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3220	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3221	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3222	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3223	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3224	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3225	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3226	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3227	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3228	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3229	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3230	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3231	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3232	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3233	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3234	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3235	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3236	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3237	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3238	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3239	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3240	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3241	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3242	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3243	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3244	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3245	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3246	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3247	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3248	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3249	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3250	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3251	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3252	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3253	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3254	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3255	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3256	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3257	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3258	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3259	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3260	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3261	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3262	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3263	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3264	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3265	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3266	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3267	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3268	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3269	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3270	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3271	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3272	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3273	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3274	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3275	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3276	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3277	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3278	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3279	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3280	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3281	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3282	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3283	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3284	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3285	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3286	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3287	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3288	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3289	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3290	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3291	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3292	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3293	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3294	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3295	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3296	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3297	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3298	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3299	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3300	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3301	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3302	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3303	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3304	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3305	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3306	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3307	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3308	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3309	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3310	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3311	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3312	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3313	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3314	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3315	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3316	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3317	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3318	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3319	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3320	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3321	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3322	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3323	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3324	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3325	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3326	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3327	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3328	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3329	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3330	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3331	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3332	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3333	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3334	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3335	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3336	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3337	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3338	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3339	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3340	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3341	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3342	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3343	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3344	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3345	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3346	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3347	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3348	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3349	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3350	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3351	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3352	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3353	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3354	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3355	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3356	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3357	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3358	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3359	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3360	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3361	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3362	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3363	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3364	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3365	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3366	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3367	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3368	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3369	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3370	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3371	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3372	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3373	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3374	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3375	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3376	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3377	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3378	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3379	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3380	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3381	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3382	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3383	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3384	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3385	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3386	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3387	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3388	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3389	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3390	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3391	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3392	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3393	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3394	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3395	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3396	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3397	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3398	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3399	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3400	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3401	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3402	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3403	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3404	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3405	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3406	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3407	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3408	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3409	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3410	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3411	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3412	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3413	SFCD							LFN	4	11-Aug-05	RBFN-WB	Roberts Bay		0			
3414	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3415	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3416	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3417	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3418	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3419	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3420	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3421	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3422	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3423	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3424	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3425	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3426	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3427	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3428	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3429	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3430	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3431	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3432	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3433	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3434	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3435	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3436	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3437	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3438	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3439	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3440	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3441	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3442	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3443	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3444	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3445	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3446	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3447	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3448	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3449	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3450	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3451	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3452	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3453	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3454	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3455	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3456	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3457	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3458	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3459	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3460	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3461	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3462	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3463	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3464	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3465	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3466	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3467	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3468	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3469	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3470	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3471	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3472	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3473	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3474	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3475	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3476	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3477	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3478	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3479	SFCD							LFN	5	12-Aug-05	RBFN-EB	Roberts Bay		0			
3480	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3481	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3482	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3483	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3484	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3485	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3486	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3487	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3488	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3489	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3490	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3491	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3492	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3493	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3494	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3495	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3496	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3497	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3498	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3499	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3500	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3501	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3502	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3503	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3504	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3505	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3506	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3507	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3508	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3509	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3510	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3511	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3512	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3513	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3514	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3515	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3516	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3517	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3518	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3519	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3520	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3521	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3522	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3523	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3524	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3525	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3526	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3527	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3528	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3529	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3530	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3531	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3532	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3533	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3534	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3535	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3536	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3537	SFCD							LFN	5	12-Aug-05	RBFN-WB	Roberts Bay		0			
3538	LKTR	545	1705	1.05	M			Angling		16-Sep-05	TLAN-01	Tail Lake	OT	1			SD 20 tadpole shrimp + gammarus
3539	LKTR	570	1655	0.89	F			Angling		16-Sep-05	TLAN-01	Tail Lake	OT	1			SD 50-90 gammarus + 10 caddis
3540	LKTR	575	1570	0.83	M			Angling		16-Sep-05	TLAN-01	Tail Lake	OT	1			SD100
3541	NNST							EF		04-Aug-05	ROEF-01	Roberts Outflow					escaped bucket
3542	NNST	73						EF		10-Aug-05	TOEF-01	Tail Outflow		0			
3543	NNST	79						EF		10-Aug-05	TOEF-01	Tail Outflow		0			
3544	NNST	50						EF		18-Aug-05	TA2EF-01	TA2		0			
3545	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3546	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3547	NNST	53						EF		18-Aug-05	TA2EF-01	TA2		0			
3548	NNST	44						EF		18-Aug-05	TA2EF-01	TA2		0			
3549	NNST	42						EF		18-Aug-05	TA2EF-01	TA2		0			
3550	NNST	50						EF		18-Aug-05	TA2EF-01	TA2		0			
3551	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3552	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3553	NNST	60						EF		18-Aug-05	TA2EF-01	TA2		0			
3554	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3555	NNST	52						EF		18-Aug-05	TA2EF-01	TA2		0			
3556	NNST	54						EF		18-Aug-05	TA2EF-01	TA2		0			
3557	NNST	51						EF		18-Aug-05	TA2EF-01	TA2		0			
3558	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3559	NNST	51						EF		18-Aug-05	TA2EF-01	TA2		0			
3560	NNST	47						EF		18-Aug-05	TA2EF-01	TA2		0			
3561	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3562	NNST	41						EF		18-Aug-05	TA2EF-01	TA2		0			
3563	NNST	52						EF		18-Aug-05	TA2EF-01	TA2		0			
3564	NNST	40						EF		18-Aug-05	TA2EF-01	TA2		0			
3565	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3566	NNST	50						EF		18-Aug-05	TA2EF-01	TA2		0			
3567	NNST	47						EF		18-Aug-05	TA2EF-01	TA2		0			
3568	NNST	55						EF		18-Aug-05	TA2EF-01	TA2		0			
3569	NNST	46						EF		18-Aug-05	TA2EF-01	TA2		0			
3570	NNST	45						EF		18-Aug-05	TA2EF-01	TA2		0			
3571	NNST	55						EF		18-Aug-05	TA2EF-01	TA2		0			
3572	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3573	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3574	NNST	44						EF		18-Aug-05	TA2EF-01	TA2		0			
3575	NNST	49						EF		18-Aug-05	TA2EF-01	TA2		0			
3576	NNST	50						EF		18-Aug-05	TA2EF-01	TA2		0			
3577	NNST	52						EF		18-Aug-05	TA2EF-01	TA2		0			
3578	NNST	45						EF		18-Aug-05	TA2EF-01	TA2		0			
3579	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3580	NNST	47						EF		18-Aug-05	TA2EF-01	TA2		0			
3581	NNST	53						EF		18-Aug-05	TA2EF-01	TA2		0			
3582	NNST	39						EF		18-Aug-05	TA2EF-01	TA2		0			
3583	NNST	43						EF		18-Aug-05	TA2EF-01	TA2		0			
3584	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3585	NNST	40						EF		18-Aug-05	TA2EF-01	TA2		0			
3586	NNST	46						EF		18-Aug-05	TA2EF-01	TA2		0			
3587	NNST	47						EF		18-Aug-05	TA2EF-01	TA2		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3588	NNST	50						EF		18-Aug-05	TA2EF-01	TA2		0			
3589	NNST	39						EF		18-Aug-05	TA2EF-01	TA2		0			
3590	NNST	41						EF		18-Aug-05	TA2EF-01	TA2		0			
3591	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3592	NNST	47						EF		18-Aug-05	TA2EF-01	TA2		0			
3593	NNST	45						EF		18-Aug-05	TA2EF-01	TA2		0			
3594	NNST	52						EF		18-Aug-05	TA2EF-01	TA2		0			
3595	NNST	52						EF		18-Aug-05	TA2EF-01	TA2		0			
3596	NNST	45						EF		18-Aug-05	TA2EF-01	TA2		0			
3597	NNST	40						EF		18-Aug-05	TA2EF-01	TA2		0			
3598	NNST	43						EF		18-Aug-05	TA2EF-01	TA2		0			
3599	NNST	46						EF		18-Aug-05	TA2EF-01	TA2		0			
3600	NNST	48						EF		18-Aug-05	TA2EF-01	TA2		0			
3601	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3602	NNST	44						MT		24-Aug-05	TA2MT-02	TA2		0			
3603	NNST	53						MT		24-Aug-05	TA2MT-02	TA2		0			
3604	NNST	43						MT		24-Aug-05	TA2MT-02	TA2		0			
3605	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3606	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3607	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3608	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3609	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3610	NNST	42						MT		24-Aug-05	TA2MT-02	TA2		0			
3611	NNST	41						MT		24-Aug-05	TA2MT-02	TA2		0			
3612	NNST	55						MT		24-Aug-05	TA2MT-02	TA2		0			
3613	NNST	51						MT		24-Aug-05	TA2MT-02	TA2		0			
3614	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3615	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3616	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3617	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3618	NNST	23						MT		24-Aug-05	TA2MT-02	TA2		0			
3619	NNST	26						MT		24-Aug-05	TA2MT-02	TA2		0			
3620	NNST	53						MT		24-Aug-05	TA2MT-02	TA2		0			
3621	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3622	NNST	52						MT		24-Aug-05	TA2MT-02	TA2		0			
3623	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3624	NNST	58						MT		24-Aug-05	TA2MT-02	TA2		0			
3625	NNST	55						MT		24-Aug-05	TA2MT-02	TA2		0			
3626	NNST	49						MT		24-Aug-05	TA2MT-02	TA2		0			
3627	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3628	NNST	30						MT		24-Aug-05	TA2MT-02	TA2		0			
3629	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3630	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3631	NNST	26						MT		24-Aug-05	TA2MT-02	TA2		0			
3632	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3633	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3634	NNST	55						MT		24-Aug-05	TA2MT-02	TA2		0			
3635	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3636	NNST	43						MT		24-Aug-05	TA2MT-02	TA2		0			
3637	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3638	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3639	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3640	NNST	20						MT		24-Aug-05	TA2MT-02	TA2		0			
3641	NNST	43						MT		24-Aug-05	TA2MT-02	TA2		0			
3642	NNST	51						MT		24-Aug-05	TA2MT-02	TA2		0			
3643	NNST	57						MT		24-Aug-05	TA2MT-02	TA2		0			
3644	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3645	NNST	42						MT		24-Aug-05	TA2MT-02	TA2		0			
3646	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3647	NNST	43						MT		24-Aug-05	TA2MT-02	TA2		0			
3648	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3649	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3650	NNST	44						MT		24-Aug-05	TA2MT-02	TA2		0			
3651	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3652	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3653	NNST	26						MT		24-Aug-05	TA2MT-02	TA2		0			
3654	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3655	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3656	NNST	49						MT		24-Aug-05	TA2MT-02	TA2		0			
3657	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3658	NNST	56						MT		24-Aug-05	TA2MT-02	TA2		0			
3659	NNST	39						MT		24-Aug-05	TA2MT-02	TA2		0			
3660	NNST	42						MT		24-Aug-05	TA2MT-02	TA2		0			
3661	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3662	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3663	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3664	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3665	NNST	23						MT		24-Aug-05	TA2MT-02	TA2		0			
3666	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3667	NNST	38						MT		24-Aug-05	TA2MT-02	TA2		0			
3668	NNST	40						MT		24-Aug-05	TA2MT-02	TA2		0			
3669	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3670	NNST	38						MT		24-Aug-05	TA2MT-02	TA2		0			
3671	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3672	NNST	52						MT		24-Aug-05	TA2MT-02	TA2		0			
3673	NNST	42						MT		24-Aug-05	TA2MT-02	TA2		0			
3674	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3675	NNST	23						MT		24-Aug-05	TA2MT-02	TA2		0			
3676	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3677	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3678	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3679	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3680	NNST	44						MT		24-Aug-05	TA2MT-02	TA2		0			
3681	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3682	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3683	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3684	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3685	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3686	NNST	50						MT		24-Aug-05	TA2MT-02	TA2		0			
3687	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3688	NNST	47						MT		24-Aug-05	TA2MT-02	TA2		0			
3689	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3690	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3691	NNST	41						MT		24-Aug-05	TA2MT-02	TA2		0			
3692	NNST	40						MT		24-Aug-05	TA2MT-02	TA2		0			
3693	NNST	42						MT		24-Aug-05	TA2MT-02	TA2		0			
3694	NNST	43						MT		24-Aug-05	TA2MT-02	TA2		0			
3695	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3696	NNST	19						MT		24-Aug-05	TA2MT-02	TA2		0			
3697	NNST	27						MT		24-Aug-05	TA2MT-02	TA2		0			
3698	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3699	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3700	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3701	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3702	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3703	NNST	46						MT		24-Aug-05	TA2MT-02	TA2		0			
3704	NNST	45						MT		24-Aug-05	TA2MT-02	TA2		0			
3705	NNST	30						MT		24-Aug-05	TA2MT-02	TA2		0			
3706	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3707	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3708	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3709	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3710	NNST	26						MT		24-Aug-05	TA2MT-02	TA2		0			
3711	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3712	NNST	19						MT		24-Aug-05	TA2MT-02	TA2		0			
3713	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3714	NNST	20						MT		24-Aug-05	TA2MT-02	TA2		0			
3715	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3716	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3717	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3718	NNST	48						MT		24-Aug-05	TA2MT-02	TA2		0			
3719	NNST	44						MT		24-Aug-05	TA2MT-02	TA2		0			
3720	NNST	38						MT		24-Aug-05	TA2MT-02	TA2		0			
3721	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3722	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3723	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3724	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3725	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3726	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3727	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3728	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3729	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3730	NNST	22						MT		24-Aug-05	TA2MT-02	TA2		0			
3731	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3732	NNST	26						MT		24-Aug-05	TA2MT-02	TA2		0			
3733	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3734	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3735	NNST	30						MT		24-Aug-05	TA2MT-02	TA2		0			
3736	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3737	NNST	19						MT		24-Aug-05	TA2MT-02	TA2		0			
3738	NNST	23						MT		24-Aug-05	TA2MT-02	TA2		0			
3739	NNST	24						MT		24-Aug-05	TA2MT-02	TA2		0			
3740	NNST	25						MT		24-Aug-05	TA2MT-02	TA2		0			
3741	NNST	23						MT		24-Aug-05	TA2MT-02	TA2		0			
3742	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3743	NNST	20						MT		24-Aug-05	TA2MT-02	TA2		0			
3744	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3745	NNST	21						MT		24-Aug-05	TA2MT-02	TA2		0			
3746	NNST	58						MT		24-Aug-05	TA2MT-01	TA2		0			
3747	NNST	58						MT		24-Aug-05	TA2MT-01	TA2		0			
3748	NNST	39						MT		24-Aug-05	TA2MT-01	TA2		0			
3749	NNST	54						MT		24-Aug-05	TA2MT-01	TA2		0			
3750	NNST	47						MT		24-Aug-05	TA2MT-01	TA2		0			
3751	NNST	42						MT		24-Aug-05	TA2MT-01	TA2		0			
3752	NNST	50						MT		24-Aug-05	TA2MT-01	TA2		0			
3753	NNST	26						MT		24-Aug-05	TA2MT-01	TA2		0			
3754	NNST	27						MT		24-Aug-05	TA2MT-01	TA2		0			
3755	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3756	NNST	26						MT		24-Aug-05	TA2MT-01	TA2		0			
3757	NNST	55						MT		24-Aug-05	TA2MT-01	TA2		0			
3758	NNST	53						MT		24-Aug-05	TA2MT-01	TA2		0			
3759	NNST	53						MT		24-Aug-05	TA2MT-01	TA2		0			
3760	NNST	61						MT		24-Aug-05	TA2MT-01	TA2		0			
3761	NNST	46						MT		24-Aug-05	TA2MT-01	TA2		0			
3762	NNST	45						MT		24-Aug-05	TA2MT-01	TA2		0			
3763	NNST	42						MT		24-Aug-05	TA2MT-01	TA2		0			
3764	NNST	43						MT		24-Aug-05	TA2MT-01	TA2		0			
3765	NNST	27						MT		24-Aug-05	TA2MT-01	TA2		0			
3766	NNST	26						MT		24-Aug-05	TA2MT-01	TA2		0			
3767	NNST	23						MT		24-Aug-05	TA2MT-01	TA2		0			
3768	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3769	NNST	48						MT		24-Aug-05	TA2MT-01	TA2		0			
3770	NNST	50						MT		24-Aug-05	TA2MT-01	TA2		0			
3771	NNST	42						MT		24-Aug-05	TA2MT-01	TA2		0			
3772	NNST	46						MT		24-Aug-05	TA2MT-01	TA2		0			
3773	NNST	56						MT		24-Aug-05	TA2MT-01	TA2		0			

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3774	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3775	NNST	24						MT		24-Aug-05	TA2MT-01	TA2		0			
3776	NNST	27						MT		24-Aug-05	TA2MT-01	TA2		0			
3777	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3778	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3779	NNST	27						MT		24-Aug-05	TA2MT-01	TA2		0			
3780	NNST	54						MT		24-Aug-05	TA2MT-01	TA2		0			
3781	NNST	28						MT		24-Aug-05	TA2MT-01	TA2		0			
3782	NNST	58						MT		24-Aug-05	TA2MT-01	TA2		0			
3783	NNST	51						MT		24-Aug-05	TA2MT-01	TA2		0			
3784	NNST	53						MT		24-Aug-05	TA2MT-01	TA2		0			
3785	NNST	26						MT		24-Aug-05	TA2MT-01	TA2		0			
3786	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3787	NNST	23						MT		24-Aug-05	TA2MT-01	TA2		0			
3788	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3789	NNST	30						MT		24-Aug-05	TA2MT-01	TA2		0			
3790	NNST	28						MT		24-Aug-05	TA2MT-01	TA2		0			
3791	NNST	23						MT		24-Aug-05	TA2MT-01	TA2		0			
3792	NNST	20						MT		24-Aug-05	TA2MT-01	TA2		0			
3793	NNST	20						MT		24-Aug-05	TA2MT-01	TA2		0			
3794	NNST	21						MT		24-Aug-05	TA2MT-01	TA2		0			
3795	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3796	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3797	NNST	20						MT		24-Aug-05	TA2MT-01	TA2		0			
3798	NNST	22						MT		24-Aug-05	TA2MT-01	TA2		0			
3799	NNST	20						MT		24-Aug-05	TA2MT-01	TA2		0			
3800	NNST	19						MT		24-Aug-05	TA2MT-01	TA2		0			
3801	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3802	NNST	25						MT		24-Aug-05	TA2MT-01	TA2		0			
3803	ARCH							EF		26-Aug-05	E12EF	Roberts Inflow					observed
3804	ARCH							EF		26-Aug-05	E11EF west	Roberts Inflow					observed
3805	ARCH							EF		27-Aug-05	E7EF	Roberts Inflow					observed
3806	ARCH							EF		27-Aug-05	E7EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		27-Aug-05	E7EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3807	ARCH							EF		15-Aug-05	E14EF	Roberts Inflow					observed
3808	ARCH							EF		30-Aug-05	RLEF-21	Roberts Lake					observed
3809	ARCH							EF		31-Aug-05	RLEF-03	Roberts Lake					observed
3810	ARCH							EF		31-Aug-05	RLEF-03	Roberts Lake					observed
3811	ARCH							EF		31-Aug-05	RLEF-03	Roberts Lake					observed
3812	LKTR							Angling		03-Sep-05	RLAN-01	Roberts Lake					lost
3813	LKTR							Angling		03-Sep-05	RLAN-01	Roberts Lake					lost
3814	CISC							EF		05-Sep-05	DLEF-14	Doris Lake					observed
3815	CISC							EF		05-Sep-05	DLEF-14	Doris Lake					observed
3816	CISC							EF		05-Sep-05	DLEF-14	Doris Lake					observed
3817	CISC							EF		05-Sep-05	DLEF-14	Doris Lake					observed
3818	LKTR							EF		05-Sep-05	DOEF-01	Doris Outflow					observed
3819	ARCH							EF		08-Sep-05	RLEF-09	Roberts Lake					observed
3820	ARCH							EF		08-Sep-05	RLEF-10	Roberts Lake					observed
3821	ARCH							EF		08-Sep-05	RLEF-10	Roberts Lake					observed
3822	ARCH							EF		08-Sep-05	RLEF-10	Roberts Lake					observed
3823	LKTR							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed
3824	NNST							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed
3825	NNST							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed
3826	NNST							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed
3827	NNST							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed

Appendix C1. Data for individual fish captured in the Doris North Project area, 2005

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Tag Colour	Tag no.	Capture Method	Trap Check no.	Date	Site	Location	Ageing Structures	Capture Code	Tag year	recap upstream	Comments
3828	NNST							EF		09-Sep-05	OGEF-02	Ogama Outflow					observed
3829	LKTR							EF		09-Sep-05	E04EF	Pelvic Outflow					observed
3830	ARCH							EF		10-Sep-05	RLEF-20	Roberts Lake					observed
3831	LKTR							EF		07-Sep-05	RLEF-05	Roberts Lake					observed
3831	ARCH							EF		10-Sep-05	RLEF-20	Roberts Lake					observed
3832	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3833	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3834	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3835	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3836	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3837	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3838	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3839	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3840	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3841	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3842	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3843	ARCH							EF		11-Sep-05	ROEF-01	Roberts Outflow					observed
3844	NNST							EF		11-Sep-05	PLEF-02	Pelvic Lake					observed

CODES:

Method: BS Beach Seine
EF Backpack Electrofishing
FN Fyke Net
LFN Large Fyke Net
MT Minnow Trap
Trap Fish Fence

Sex: F Female
M Male

Condition Factor = Weight [in g] X 10⁵ / (FL [in mm])³

Tag Colour: B Blue
G Green
W White

Species: ARCH Arctic char
ARFL Arctic flounder
CISC Cisco
FRSC Fourhorn sculpin
LKTR Lake trout
LKWH Lake whitefish
NNST Ninespine stickleback
PCHR Pacific Herring
SFCD Saffron cod
STFL Starry flounder

FL: Fork length (in mm)

Capture Codes: 0 = first time capture, released alive
1 = re-capture, sacrificed or mortality
2 = re-capture, released alive

* Length=Fork Length for CISC, LKWH, LKTR, ARCH, and PCHR
Length=Total Length for NNST, ARFL, FRSC, SFCD and STFL

Appendix C2. Location, effort, catch, and CPUE data for fyke net sets in the Doris North Project area, 2005.

Water-body	Site ID	UTM (13W) NAD27		Set Date	Set Time	Pull Date	Pull Time	Set Period (h)	Number of Fish Captured / CPUE (fish/24 h)																			
									ARCH		ARFL		CISC		FRSC		LKTR		LKWH		PCHR		SFCD		STFL		Total	
		n	CPUE						n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Roberts Bay	RBFN WB	432599	7563074	7-Aug	14:30	8-Aug	12:00	21.5	1	1.12	13	14.51									1	1.12	484	540.28	3	2.88	499	557.02
				8-Aug	12:00	9-Aug	13:00	25.0			19	18.24									1	0.96					23	22.08
				9-Aug	13:00	10-Aug	13:30	24.5			5	4.90									1	0.98	160	156.73			166	162.61
				10-Aug	13:30	11-Aug	14:00	24.5			6	5.88											724	709.22			730	715.10
				11-Aug	14:00	12-Aug	13:10	23.2			7	7.25			1	1.04					1	1.04	58	60.09			67	69.41
	RBFN EB	432599	7563074	7-Aug	14:30	8-Aug	12:00	21.5	Catch lost																			
				8-Aug	12:00	9-Aug	9:30	21.5	1	1.12	26	29.02					1	1.12					121	135.07			149	166.33
				9-Aug	9:30	10-Aug	12:30	27.0			23	20.44											446	396.44			469	416.89
				10-Aug	12:30	11-Aug	11:30	23.0	1	1.04	9	9.39					1	1.04					242	252.52			253	264.00
				11-Aug	11:30	12-Aug	13:00	25.5	5	4.71	11	10.35					1	0.94	2	1.88	1	0.94	66	62.12			86	80.94
	Total								237.2	8	0.81	119	12.04			1	0.10	3	0.30	2	0.20	5	0.51	2301	232.85	3	0.30	2442
Pelvic Outflow	POFN-01	435903	7560761	14-Aug	14:20	15-Aug	14:00	23.7					12	12.17			6	6.08									18	18.25
				15-Aug	14:00	17-Aug	11:40	45.7					46	24.18			10	5.26	6	3.15							16	8.41
				17-Aug	11:40	19-Aug	16:45	53.1					17	7.69			8	3.62									25	11.30
				19-Aug	16:45	20-Aug	12:00	19.3	1	1.25	31	38.65					1	1.25	3	3.74							5	6.23
				20-Aug	12:00	22-Aug	15:00	51.0			27	12.71					6	2.82	2	0.94							35	16.47
				22-Aug	15:00	24-Aug	12:15	45.2	1	0.53	6	3.18					2	1.06	6	3.18							15	7.96
	Total								237.9	2	0.20			139	14.02			33	3.33	17	1.71							114
Roberts Lake	RLFN-01	441424	7559272	29-Aug	13:30	31-Aug	16:30	51.0	1	0.47							1	0.47									2	0.94
	RLFN-02	438162	7561490	31-Aug	17:30	03-Sep	13:00	67.5									1										1	0.36
				3-Sep	13:00	6-Sep	15:30	74.5	1	0.32							4	1.29									5	1.61
	RLFN-03	438908	7561089	06-Sep	16:15	09-Sep	18:00	73.7									4										4	1.30
	RLFN-04	435767	7562117	9-Sep	19:00	11-Sep	11:15	40.3	1	0.60							2	1.19									3	1.79
Total								307.0	3	0.23							12	0.94									15	1.17

NOTES:

n = number of captured fish

CPUE = catch per unit effort

Total CPUE = (total n / total h)*24

see Table 4.1 or Appendix C1 for explanation of fish species codes

Appendix C3. Beach seine sampling locations, effort, CPUE in the Doris North Project area, 2005.

Waterbody	Site ID.	UTM (13W) NAD27		Date	Time	Effort (m ²)	Number of Fish Captured/CPUE (fish/100m ²)															
		Easting	Northing				ARCH		LKTR		LKWH		CISC		FRSC		SFCD		Total			
							n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE		
Roberts Bay	RBBS	432591	7563249	11-Aug	15:30	200	0		0		0		0		0		0		0		0	
	Total					200	0		0		0		0		0		0		0		0	

NOTES:

n = number of captured fish
 CPUE = catch per unit effort

see Table 4.1 or Appendix C1 for explanation of fish species codes

Appendix C4. Location, effort, catch, and CPUEa data for minnow trap sets in the Doris North Project area, 2005.

Waterbody	Site ID	UTM (13W) NAD27		Set Date	Set Time	Pull Date	Pull Time	Set Period (h)	Number of Fish Captured / CPUE (fish/24 h)	
		Easting	Northing						NNST	
									<i>n</i>	CPUE
Doris Lake	DLMT-01	434156	7558947	01-Sep	13:35	5-Sep	16:00	98.4	50	12.19
	DLMT-02	434684	7555540	02-Sep	9:45	5-Sep	11:00	73.3	2	0.66
	Total							171.7	52	7.27
	Quarry 2 Pond 2a	Q2MT-2a	432252	7558867	25-Aug	9:30	01-Sep	8:40	167.2	
Quarry 2 Pond 2b	Total							167.2	0	0.00
	Q2MT-2b	432330	7558925	25-Aug	9:30	01-Sep	8:40	167.2		
	Total							167.2	0	0.00
	Quarry 3 Pond 3a	Q3MT-3a	435764	7558014	10-Aug	17:15	17-Aug	10:15	161.0	
Quarry 3 Pond 3b	Total							161.0	0	0.00
	Q3MT-3b	435904	7557871	10-Aug	17:30	17-Aug	10:15	160.8		
	Total							160.8	0	0.00
	Tailings Alternate Site 2	TA2MT-01	434183	7561798	18-Aug	13:55	24-Aug	9:15	139.3	57
TA2MT-02		434256	7561689	18-Aug	14:10	24-Aug	9:15	139.1	145	
Total								278.4	202	17.41

NOTES:

n = number of captured fish

CPUE = catch per unit effort (fish/24 h)

see Table 4.1 or Appendix C1 for explanation of fish species codes

Appendix C5. Backpack electrofishing sampling locations, effort, catch and CPUE in the Doris North Project area, 2005.

Waterbody	Site ID	Date	Time	UTM (13W) NAD 27		Effort		Number of Fish Captured/CPUE (fish/100s)													
				Easting	Northing	(m)	(s)	ARCH		LKTR		LKWH		CISC		NNST		Unidentified		Total	
								n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Doris Lake	DLEF-01	01-Sep	13:00	434186	7558885	124	379														
	DLEF-02	01-Sep	16:00	434822	7555671	150	357									2	0.56			2	0.56
	DLEF-03	02-Sep	13:00	434678	7554433		412									5	1.21			5	1.21
	DLEF-04	02-Sep	13:00	434698	7554496		394					1	0.25			5	1.27			6	1.52
	DLEF-05	02-Sep	13:00	434781	7554582	72	260									1	0.38			1	0.38
	DLEF-06	02-Sep	15:00	434621	7553659	137	464			2	0.43					6	1.29			8	1.72
	DLEF-07	03-Sep	14:10	434785	7553519	125	494									20	4.05			20	4.05
	DLEF-08	03-Sep	14:10	434819	7554230	270	657									3	0.46			3	0.46
	DLEF-09	04-Sep	13:30	433562	7558367	96	474									1	0.21			1	0.21
	DLEF-10	04-Sep	14:30	433716	7556991	125	404														
	DLEF-11	04-Sep	15:15	434518	556203	160	454			1	0.22									1	0.22
	DLEF-11.5	05-Sep	11:30	434518	7556203	35	184														
	DLEF-12	05-Sep	11:45	434417	755281		662			1	0.15									1	0.15
	DLEF-13	05-Sep	12:45	434433	7554065	350	474							1	0.21					1	0.21
	DLEF-14	05-Sep	13:15	434236	7554560	320	506							5	0.99					5	0.99
	DLEF-15	05-Sep	13:50	434301	557751	150	347														
	Subtotal					2114	6922			4	0.06	1	0.01	6	0.09	43	0.62			54	0.78
Doris Lake Outflow	DOEF-01	05-Sep	14:45	434145	7559550	200	637			2	0.31									2	0.31
	Subtotal					200	637			2	0.31									2	0.31
Ogama Outflow	OGEF-01	01-Sep	15:40	434884	7555671		430			1	0.23	1	0.23							2	0.47
	OGEF-02	09-Sep	9:45	435383	7555039	400	398			1	0.25					5	1.26			6	1.51
	Subtotal					400	828			2	0.24	1	0.12			5	0.60			8	0.97
Tail Outflow	TOEF-01	10-Aug	15:35	434156	7558947		461									2	0.43			2	0.43
	Subtotal						461									2	0.43			2	0.43
Pelvic Lake Tributary	P0EF01	09-Sep	11:10	439653	7554976		471														
	P0EF02	11-Sep	9:15	439140	7551726	75	405														
	P0EF03	11-Sep	9:50	439133	7552060	50	194														
	Subtotal					125	1070														
Pelvic Lake	PLEF-01	9-Sep	11:30	439653	7554976		393						1	0.25						1	0.25
	PLEF-02	11-Sep	10:05	439277	7552269	75	353									1	0.28			1	0.28
	Subtotal					75	746							1	0.13	1	0.13			2	0.27
Pelvic Lake Outflow	E04EF	09-Sep	10:20	436497	7559150	40	331	4	1.21	1	0.30									5	1.51
	Subtotal					40	331	4	1.21	1	0.30									5	1.51
Quarry 2 Pond 2a	Q2EF-2a	25-Aug	9:30	432252	7558867		57														
	Q2EF-2b	25-Aug	9:30	432330	7558925		461														
	Subtotal						518														
Quarry 3 Pond 3a	Q3EF-3a	10-Aug	16:50	435621	7558175	16	531														
	Q3EF-3b	10-Aug	17:30	435885	7557844	12	165														
	Subtotal					28	696														
Tailings Alternate Site 2	TA2EF-01	18-Aug	12:45	434183	7561798	80	527									57	10.82			57	10.82
	Subtotal					80	527									57	10.82			57	10.82
Roberts Lake Tributary	E07EF	27-Aug	14:30	438534	7561328	8	47	3	6.38	2	4.26							3	6.38	8	17.02
	E09EF	26-Aug	13:30	441175	7559401		258	4	1.55	5	1.94									9	3.49
	E11EF e	26-Aug	13:30	441319	7559296		87	2	2.30											2	2.30
	E11EF w	26-Aug	13:30	441319	7559296	30	107	1	0.93									1	0.93	2	1.87
	E12EF	26-Aug	13:30	441414	7559252	75	266	1	0.38									1	0.38	2	0.75
	E13EF	29-Aug	14:00	439079	7561334	75	206														
	E14EF	15-Aug	15:30	436824	7563107		489	21	4.29	18	3.68					1	0.20	8	1.64	48	9.82
	E31EF	27-Aug	11:45	440409	7560393		57														
	E32EF	27-Aug	12:45	440171	7560765	10	65														
	E33EF	27-Aug	12:30	440131	7560757		80														
	E34EF	10-Sep	12:20	437039	7562772	30	218														
	E15EF	10-Sep	10:20	435580	7562498	120	202														
	Subtotal					348	2082	32	1.54	25	1.20						1	0.05	13	0.62	71

Appendix C5. Backpack electrofishing sampling locations, effort, catch and CPUE in the Doris North Project area, 2005.

Waterbody	Site ID	Date	Time	UTM (13W) NAD 27		Effort		Number of Fish Captured/CPUE (fish/100s)														
				Easting	Northing	(m)	(s)	ARCH		LKTR		LKWH		CISC		NNST		Unidentified		Total		
								n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	
Roberts Lake Shoreline	RLEF-01	30-Aug	12:20	439173	7560676	50	249	2	0.80	5	2.01									7	2.81	
	RLEF-02	31-Aug	16:00	441218	7559374	75	319	1	0.31	1	0.31									2	0.63	
	RLEF-03	31-Aug	17:40	438162	7561490	75	342	13	3.80											13	3.80	
	RLEF-04	07-Sep	12:30	436548	7561399	60	466	1	0.21	1	0.21									2	0.43	
	RLEF-05	07-Sep	13:40	436650	7561278		372			1	0.27									1	0.27	
	RLEF-06	07-Sep	14:20	436988	7561321	140	630	2	0.32											2	0.32	
	RLEF-07	07-Sep	15:20	437237	7560964		349															
	RLEF-08	08-Sep	13:45	441055	7559751	100	474	6	1.27	2	0.42									8	1.69	
	RLEF-09	08-Sep	14:50	440581	7560090	100	809	19	2.35	2	0.25					2	0.25			23	2.84	
	RLEF-10	08-Sep	16:10	440112	7560233	50	374	6	1.60									3	0.80	9	2.41	
	RLEF-11	08-Sep	16:45	440357	7560528	200	384															
	RLEF-12	09-Sep	17:45	438906	7561077	75	358															
	RLEF-13	10-Sep	11:00	436238	7562395	50	301	5	1.66	1	0.33									6	1.99	
	RLEF-14	10-Sep	13:00	436491	7562964	60	213															
	RLEF-15	10-Sep	13:35	436800	7562604	75	489	1	0.20	3	0.61									4	0.82	
	RLEF-16	10-Sep	14:35	437281	7561872	75	485	1	0.21	1	0.21									2	0.41	
	RLEF-17	10-Sep	15:30	435805	7561212		481															
	RLEF-18	10-Sep	16:10	435494	7561505	125	630	1	0.16								1	0.16			2	0.32
	RLEF-19	10-Sep	16:50	435233	7562353	120	424	2	0.47	1	0.24									3	0.71	
	RLEF-20	10-Sep	17:30	435285	7562473		308	4	1.30											4	1.30	
	RLEF-21	30-Aug	10:45	438584	7561098	30	188			2	1.06								1	0.53	3	1.60
	RLEF-22	30-Aug	10:45	438584	7561098	30	181			1	0.55									1	0.55	
	RLEF-23	29-Aug	14:00	439079	7561334	40	176	1	0.57	8	4.55									9	5.11	
	RLEF-24	29-Aug	14:00	439079	7561334	40	186	1	0.54	6	3.23									7	3.76	
	RLEF-25	16-Aug	16:30	436824	7563107	20	60															
	Subtotal						1590	9248	66	0.71	35	0.38					3	0.03	4	0.04	108	1.17
Roberts Lake Outflow	ROEF-01	04-Aug	14:30	435258	7562620		621	34	5.48							1	0.16			35	5.64	
	ROEF-02	15-Aug	10:45	435258	7562620		588	9	1.53	9	1.53									18	3.06	
	ROEF-03	15-Aug	13:00	435258	7562620		911	28	3.07							4	0.44			32	3.51	
	ROEF-04	15-Aug	15:00	435258	7562620		198	12	6.06	1	0.51									13	6.57	
	ROEF-02	04-Aug	14:30	435258	7562640		621	1	0.16	5	0.81									6	0.97	
	ROEF-03	07-Sep	9:45	435260	7562580			3												3		
	Subtotal							2939	87	2.96	15	0.51					5	0.17			107	3.64
Total						5000	27005	189	0.70	84	0.31	2	0.01	7	0.03	117	0.43	17	0.06	416	1.54	

NOTES:

n = number of captured fish

CPUE = catch per unit effort

Total CPUE = (total n / total s)*100

see Table 4.1 or Appendix C1 for explanation of fish species codes

Appendix C6. Angling locations, effort, catch and CPUE in the Doris North Project area, 2005.

Waterbody	Site ID	UTM (13W) NAD27		Date	Time	Effort			Number of Fish Captured/CPUE (fish/h)					
		Easting	Northing			number of rods	(h)	Total Effort (h)	ARCH		LKTR		Total	
									n	CPUE	n	CPUE	n	CPUE
Roberts Bay				09-Aug	14:00	2	1.5	3.0						
	Subtotal					2	1.5	3.0						
Roberts Lake	RLAN-01	438162	7561490	24-Aug	13:30	2	3.0	6.0			13	2.2	13	2.2
	RLAN-01	438162	7561490	25-Aug	13:45	2	3.0	6.0			12	2.00	12	2.00
	RLAN-01	438162	7561490	26-Aug	10:30	2	2.0	4.0			3	0.75	3	0.75
	RLAN-01	438162	7561490	27-Aug	14:45	2	3.3	6.5			14	2.15	14	2.15
	RLAN-01	438162	7561490	29-Aug	16:00	2	0.5	1.0			4	4.00	4	4.00
	RLAN-01	438162	7561490	30-Aug	14:00	2	1.3	2.5			9	3.60	9	3.60
	RLAN-01	438162	7561490	31-Aug	18:00	2	1.0	2.0			2	1.00	2	1.00
	RLAN-01	438162	7561490	03-Sep	13:00	3	0.7	2.0			3	1.49	3	1.49
	RLAN-01	438162	7561490	07-Sep	16:20	2	0.7	1.3	1	0.75			1	0.75
	RLAN-01	438162	7561490	08-Sep	11:20	2	0.3	0.5						
	RLAN-02	439569	7560919	08-Sep	12:10	2	1.4	2.8			5	1.79	5	1.79
	RLAN-02	439569	7560919	08-Sep	17:00	2	2.0	4.0			12	3.00	12	3.00
	RLAN-02	439569	7560919	09-Sep	15:30	2	2.0	4.0			10	2.50	10	2.50
	RLAN-03	438584	7561098	30-Aug	11:20	1	1.0	1.0			1	1.00	1	1.00
	RLAN-04			27-Aug	9:00	2	2.5	5.0			7	1.40	7	1.40
	Subtotal					30	24.5	48.7	1	0.02	95	1.95	96	1.97
	Doris Lake	DLAN-01	434884	7555671	01-Sep	13:50	2	0.3	0.6			1	1.67	1
DLAN-01		434884	7555671	05-Sep	16:45	2	0.5	1.0			2	2.00	2	2.00
DLAN-01		434884	7555671	16-Sep	11:00	2	0.5	1.0			2	2.00	2	2.00
DLAN-02		434640	7555560	01-Sep	13:50	2	0.3	0.6						
DLAN-02				02-Sep	10:00	2	1.5	3.0			24	8.00	24	8.00
DLAN-02				04-Sep	16:00	2	1.5	3.0			10	3.33	10	3.33
Subtotal					6	3.3	6.6			34	5.15	34	5.15	
Doris Outflow	DOAN-01	434145	7559550	05-Sep	14:15	1	0.5	0.5			1	2.00	1	2.00
	Subtotal					1	0.5	0.5			1	2.00	1	2.00
Tail Lake	TLAN-01	434987	7557952	16-Sep		2	1.0	2.0			3	1.50	3	1.50
	Subtotal					2	1.0	2.0			3	1.50	3	1.50
Total						40	30	60.3	1	0.02	132	2.19	133	2.21

NOTES:

n = number of captured fish

see Table 4.1 or Appendix C1 for explanation of fish species codes

CPUE = catch per unit effort

Total CPUE = total n / total h

Appendix C7a. Catch, and CPUE data at the downstream fish fence in Roberts Outflow, 2005.

Trap Check		Water Temp (°C)	Staff Gauge ^a (cm)	Set Period (h)	Number of Fish Captured / CPUE (fish/24 h)							
					ARCH		LKTR		LKWH		Total	
					<i>n</i>	CPUE	<i>n</i>	CPUE	<i>n</i>	CPUE	<i>n</i>	CPUE
3-Aug	14:00	7.5	61.8									
4-Aug	17:40		60.5	27.7	2	1.73	9	7.81			11	9.54
5-Aug	14:30	8.3	59.4	20.8	2	2.30	3	3.46			5	5.76
6-Aug	9:00	8.7	59.3	18.5	1	1.30	1	1.30			2	2.59
7-Aug	15:30	7.6	59.0	30.5	4	3.15	14	11.02			18	14.16
8-Aug	9:15	9.1	58.8	17.7			3	4.06			3	4.06
9-Aug	16:15	8.3	57.8	31.0	1	0.77	7	5.42			8	6.19
10-Aug	9:00	9.9	57.9	16.7	4	5.73	5	7.16			9	12.90
11-Aug	9:30	9.4	56.7	24.5	1	0.98	4	3.92			5	4.90
12-Aug	9:15	9.1	56.0	23.7	7	7.07	4	4.04			11	11.12
13-Aug	13:10	9.3	57.2	27.9	9	7.74	4	3.44			13	11.18
14-Aug	9:30	9.1	57.1	20.3								
15-Aug	9:10	9.1	56.8	23.7	9	9.13					9	9.13
16-Aug	15:30	9.2	56.9	30.3	3	2.37	1	0.79			4	3.16
17-Aug	10:30	9.1	56.2	19.0	3	3.79					3	3.79
17-Aug	15:00			4.5	2	10.67					2	10.67
17-Aug	16:45	9.0	56.4	1.7	7	98.82	5	70.59			12	169.41
18-Aug	9:30	9.5	55.8	16.8	2	2.87	2	2.87			4	5.73
19-Aug	9:30	10.6	55.8	24.0								
20-Aug	9:30	10.9	55.2	24.0	12	12.00					12	12.00
21-Aug	9:30	10.6	54.1	24.0	3	3.00	2	2.00			5	5.00
22-Aug	10:00	10.1	53.7	24.5	4	3.92	1	0.98	1	0.98	6	5.88
22-Aug	16:20	10.0	53.2	6.3	2	7.58	1	3.79			3	11.37
24-Aug	10:30	8.4	56.5	42.2	9	5.12					9	5.12
25-Aug	11:55	9.5	56.9	25.4	13	12.28					13	12.28
26-Aug	8:45	9.1	57.1	20.8	7	8.06					7	8.06
27-Aug	19:05	10.7	57.3	34.3	6	4.19	5	3.50			11	7.69
29-Aug	9:15	8.1	57.0	38.2								
29-Aug	17:00	8.0	57.2	7.5	2	6.40					2	6.40
30-Aug	9:10	7.7	57.1	16.2	4	5.94					4	5.94
31-Aug	12:25	7.5	56.7	27.2	10	8.81	2	1.76			12	10.57
1-Sep	8:50	7.0	56.5	20.4	7	8.23	2	2.35			9	10.58
2-Sep	16:30	8.4	56.3	31.7	6	4.55					6	4.55
3-Sep	13:45	8.4	55.6	21.2	8	9.04	1	1.13			9	10.16
4-Sep	9:10	7.7	55.3	19.4	9	11.12					9	11.12
5-Sep	10:10	8.5	55.0	25.0	8	7.68					8	7.68
6-Sep	10:20	8.9	54.8	24.2	2	1.99					2	1.99
7-Sep	9:00	8.7	34.0	22.7	1	1.06	1	1.06			2	2.12
8-Sep	10:00	8.8	53.4	25.0	2	1.92					2	1.92
9-Sep	12:15	8.7	52.9	26.3								
10-Sep	9:15	8.1	52.1	21.0	6	6.86	1	0.91			7	8.00
11-Sep	15:30	7.5	51.1	30.3	3	2.38	1	1.14			4	3.17
12-Sep	12:00	6.5	50.2	20.5	1	1.17	1	0.79			2	2.34
Total				957.7	182	4.56	80	2.00	1	0.03	263	6.59

NOTES:

n = number of captured fish

CPUE = catch per unit effort (fish/24 h)

^a staff gauge located in Roberts Outflow immediately downstream of the fish fence

Total CPUE = total *n* / total h

Appendix C7b. Catch, and CPUE data at the upstream fish fence in Roberts Outflow, 2005.

Trap Check		Water Temp (°C)	Staff Gauge ^a (cm)	Set Period (h)	Number Captured / CPUE (fish/24 h)					
					ARCH		LKTR		Total	
Date	Time				<i>n</i>	CPUE	<i>n</i>	CPUE	<i>n</i>	CPUE
4-Aug	14:30	11.9	35.5							
4-Aug	18:30	11.9	35.5	7.0						
5-Aug	15:00	8.3	35.2	20.5			3	3.51	3	3.51
6-Aug	9:45	8.7	35.0	18.8	1	1.28			1	1.28
7-Aug	16:30	9.9	35.2	30.8	1	0.78	1	0.78	2	1.56
8-Aug	10:00	9.0	34.8	17.5			3	4.11	3	4.11
9-Aug	17:10		34.4	31.2	1	0.77	2	1.54	3	2.31
10-Aug	10:00	9.9	34.0	16.8			4	5.70	4	5.70
11-Aug	10:00	9.2	33.7	24.0	2	2.00	5	5.00	7	7.00
12-Aug	10:10	9.1	33.3	24.2			1	0.99	1	0.99
13-Aug	14:00	9.3	34.3	27.8	7	6.04	3	2.59	10	8.62
14-Aug	9:45			19.7	1	1.22	2	2.43	3	3.65
15-Aug	10:10	9.1	34.1	24.4						
15-Aug	12:05			1.9	4	50.09			4	50.09
15-Aug	13:00			0.9	1	26.18			1	26.18
16-Aug	17:10	9.2	34.0	28.2	1	0.85	2	1.70	3	2.56
17-Aug	11:00	9.0	34.3	17.8	1	1.35			1	1.35
17-Aug	16:40			5.7		12.71				
18-Aug	10:15	9.9	34.2	17.6	3	4.09	1	1.36	4	5.46
19-Aug	10:30	10.6	33.8	24.2	3	0.99	3	2.97	6	5.94
20-Aug	10:50	11.1		24.3	1	2.96	1	0.99	2	1.97
21-Aug	10:00	10.6	33.6	23.2	3		1	1.04	4	4.14
22-Aug	11:00			25.0		3.84				
22-Aug	16:40		33.2	5.7	4	16.94			4	16.94
24-Aug	11:30	8.4	34.6	42.8	1	0.56			1	0.56
25-Aug	12:50	9.5	35.0	25.3	3	2.84	3	2.84	6	5.68
26-Aug	9:10	9.1	35.4	20.3	10	11.80			10	11.80
27-Aug	18:20	10.7	35.5	33.2	9	6.51	6	4.34	15	10.85
29-Aug	9:15	8.1	35.2	38.9	2	1.23	1	0.62	3	1.85
29-Aug	16:50	8.0	35.4	6.3						
30-Aug	9:45	7.8	35.5	16.9	4	5.67			4	5.67
31-Aug	15:00	7.5	35.5	29.3	1	0.82			1	0.82
1-Sep	9:20	7.1	35.3	18.3	1	1.31	4	5.24	5	6.55
2-Sep	17:15	8.7	35.2	31.9						
3-Sep	14:10	8.4	34.8	20.9	2	2.29			2	2.29
4-Sep	9:35	7.7	35.0	19.4	3	3.71			3	3.71
5-Sep	10:35	8.3	35.0	25.0	1	0.96			1	0.96
6-Sep	10:40	8.9		24.1	2	1.99			2	1.99
7-Sep	10:45	8.7		24.1	3	2.99			3	2.99
8-Sep	10:30	8.8	34.1	23.8						
9-Sep	12:15			25.7						
10-Sep	9:50	8.1	33.7	21.6						
11-Sep	15:40	7.5	33.4	29.8						
12-Sep	12:15	6.5	32.2	20.6						
Total				935.5	76	1.95	46	1.18	122	3.13

NOTES:

n = number of captured fish

CPUE = catch per unit effort (fish/24 h)

^a staff gauge located in Roberts Outflow immediately downstream of the fish fence

Total CPUE = total *n* / total h

Appendix C8. Length, weight, and condition factor statistics for fish captured in Doris North Project area, 2005.

Waterbody	Species	Fork Length (mm)					Weight (g)					Condition Factor				
		<i>n</i>	Mean	SD	Min	Max	<i>n</i>	Mean	SD	Min	Max	<i>n</i>	Mean	SD	Min	Max
Doris Lake	Lake trout	42	628	145	142	803	42	2643	1162	30	5170	42	0.97	0.13	0.77	1.49
	Ninespine stickelback	95	29	9	18	83	-	-	-	-	-	-	-	-	-	-
	Cisco	2	236	33	212	259	2	150	78	95	205	2	1.09	0.13	1.00	1.18
	Lake whitefish	1	36	-	-	-	-	-	-	-	-	-	-	-	-	-
Doris Outflow	Lake trout	2	485	33	462	508	2	1233	286	1030	1435	2	1.07	0.04	1.05	1.10
Ogama Outflow	Lake trout	1	389	-	-	-	1	540	-	-	-	1	0.92	-	-	-
	Lake whitefish	1	272	-	-	-	1	250	-	-	-	1	1.24	-	-	-
Pelvic Lake	Cisco	1	55	-	-	-	-	-	-	-	-	-	-	-	-	-
Pelvic Outflow	Arctic Char	6	201	97	127	390	2	340	346	95	585	2	1.03	0.06	0.99	1.07
	Lake trout	33	390	158	82	825	31	952	1106	35	5185	31	0.98	0.11	0.74	1.21
	Cisco	139	199	70	75	287	75	138	49	10	260	75	0.98	0.10	0.66	1.33
	Lake whitefish	17	300	115	120	438	16	494	401	15	1100	16	1.19	0.17	0.85	1.45
Roberts Bay	Arctic char	8	276	189	176	741	8	703	1738	55	5005	8	0.98	0.11	0.87	1.00
	Arctic flounder	119	224	48	119	375	116	178	120	15	755	116	1.36	0.16	0.61	1.78
	Fourhorn sculpin	1	113	-	-	-	1	10	-	-	-	1	0.69	-	-	-
	Lake trout	3	393	165	223	553	3	973	1020	100	2095	3	1.08	0.17	1.00	1.24
	Lake whitefish	2	427	11	419	435	2	958	25	940	975	8	1.23	0.13	1.00	1.33
	Pacific herring	5	245	15	228	268	5	128	9	120	140	5	0.88	0.12	0.73	1.01
	Saffron cod	617	232	64	86	462	546	98	97	5	630	546	0.58	0.08	0.28	0.92
	Starry flounder	3	443	32	406	464	3	1172	377	750	1475	3	1.32	0.21	1.00	1.54
Roberts Outflow	Arctic char juveniles*	84	129	55	46	245	70	41	45	5	160	70	1.04	0.19	0.58	1.81
	Arctic char adults**	182	499	186	254	848	179	1712	1598	130	5970	179	1.02	0.11	0.54	1.44
	All Arctic char	266	382	233	46	848	249	1242	1549	5	5970	249	1.03	0.14	0.54	1.81
	Lake trout juveniles*	9	108	35	77	192	5	28	24	15	70	5	1.26	0.36	0.91	1.26
	Lake trout adults**	87	496	108	318	878	87	1566	1288	330	7805	87	1.12	0.13	0.71	1.58
	All Lake trout	96	460	154	77	878	92	1482	1300	15	7805	92	1.12	0.15	0.71	1.83
	Lake whitefish	1	453	-	-	-	1	1750	-	-	-	1	1.88	-	-	-
	Ninespine stickleback	4	25	3	23	29	-	-	-	-	-	-	-	-	-	-
Roberts Lake	Arctic char	63	69	39	38	195	6	46	24	10	65	6	1.08	0.16	0.87	1.25
	Lake trout	140	480	274	35	977	115	2739	2284	25	8665	115	1.07	0.10	0.62	1.46
	Ninespine stickleback	3	30	7	22	34	-	-	-	-	-	-	-	-	-	-
Roberts Inflow E7	Arctic char	3	113	52	74	172	1	75	-	-	-	1	1.47	-	-	-
	Lake trout	2	98	32	75	120	-	-	-	-	-	-	-	-	-	-
Roberts Inflow E9	Arctic char	4	116	7	109	125	-	-	-	-	-	-	-	-	-	-
	Lake trout	5	101	8	90	110	-	-	-	-	-	-	-	-	-	-
Roberts Inflow E11	Arctic char	3	92	23	74	118	-	-	-	-	-	-	-	-	-	-
Roberts Inflow E12	Arctic char	1	71	-	-	-	-	-	-	-	-	-	-	-	-	-
Roberts Inflow E14	Arctic char	21	77	23	44	122	-	-	-	-	-	-	-	-	-	-
	Lake trout	18	82	12	69	112	-	-	-	-	-	-	-	-	-	-
	Ninespine stickleback	1	56	-	-	-	-	-	-	-	-	-	-	-	-	-
Tail Lake	Lake trout	3	563	16	545	575	3	1643	68	1570	1705	3	0.92	0.12	0.83	1.05
Tail Outflow	Ninespine stickleback	2	76	4	73	79	-	-	-	-	-	-	-	-	-	-
Tailings Alternate Site 2	Ninespine stickleback	259	38	12	19	61	-	-	-	-	-	-	-	-	-	-

* juveniles are classed as less than 250 mm fork length

** adults are classed as greater than, or equal to 250 mm for length