

**NECHAKO RIVER  
FLOW CONTROL 2003/2004**

*NECHAKO FISHERIES CONSERVATION PROGRAM  
Technical Report No. RM03-3*

Prepared by:

Triton Environmental Consultants Ltd.  
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## **ABSTRACT**

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The objective of the 2003/2004 Nechako River Flow Control Project was to ensure effective release of the Annual Water Allocation (AWA), as defined in the 1987 Settlement Agreement (Anon. 1987) (a mean release of 36.8 m<sup>3</sup>/s at Skins Lake Spillway with the intent of achieving a mean annual flow of 41.7 m<sup>3</sup>/s in the Nechako River below Cheslatta Falls). The recorded mean annual Skins Lake Spillway release was 52.5 m<sup>3</sup>/s, and the mean annual flow in the Nechako River below Cheslatta Falls was recorded at 55.3 m<sup>3</sup>/s. Excluding summer cooling water releases, the calculated mean annual Skins Lake Spillway release attributable to the AWA was 37.0 m<sup>3</sup>/s.

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## **INTRODUCTION**

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The 1987 Settlement Agreement (Anon. 1987) specifies the Annual Water Allocation (AWA) to be released from Nechako Reservoir. The AWA is specified as a mean annual release of 36.8 m<sup>3</sup>/s at Skins Lake Spillway with the intent of achieving an approximate mean annual flow of 41.7 m<sup>3</sup>/s in the Nechako River below Cheslatta Falls.

This report provides a summary of available mean monthly and mean daily Skins Lake Spillway releases and flows in the Nechako River below Cheslatta Falls for the period April 1, 2003 to March 31, 2004.

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## **OBJECTIVE AND RATIONALE**

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The objective of the Nechako River Flow Control Project is to ensure release of the AWA. This objective is to be achieved by scheduling Nechako Reservoir releases appropriately to ensure the water allocation is utilized. Direction on the rate, timing and duration of Skins Lake Spillway releases is provided to Alcan Primary Metal Group (Alcan) by the Nechako Fisheries Conservation Program (NFCP) Technical Committee.

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## **DATA REQUIREMENTS AND PROJECT OPERATIONS**

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Project data requirements include mean daily Skins Lake Spillway releases and mean daily flows in the

Nechako River below Cheslatta Falls. Data presented in the report for the period April 1, 2003 to March 31, 2004 include preliminary Water Survey of Canada (WSC) data for both locations, and a short period of estimated flow data for the Nechako River below Cheslatta Falls. These latter data were estimated by Triton Environmental Consultants Ltd. (Triton) for the period January 1 to February 10, 2004 when the flows recorded were ice affected, and were not adjusted by the WSC prior to the preparation of this report. Therefore, these estimated data may vary slightly from the published WSC data for this period.

Skins Lake Spillway releases are made by Alcan in response to direction received from the NFCP Technical Committee and are based on the current reservoir water surface elevation and anticipated reservoir inflow. On April 1 (the start of the NFCP water year) of each year, the spillway release is typically maintained at the winter release from the previous year. Later in April, the release is increased to the current year spring release (typically 49.0 m<sup>3</sup>/s), with the timing being dependent on downstream ice conditions in the Cheslatta and Murray Lakes system. Following this increase to the spring release, and during ice-free conditions, the spillway settings are reviewed periodically, typically weekly, to ensure the requested releases are achieved. In mid to late August, following completion of the Summer Water Temperature and Flow Management Project (Triton 2003), the spillway release is reduced to

achieve the winter flow regime. During winter conditions, the gate setting is also adjusted periodically to ensure the average winter release, as established by the NFCP, is achieved.

The above release regime is termed the “operational release”, and is defined as the WSC recorded release made by Alcan, less forced spills and additional flows as required for cooling purposes, as per the 2003 Summer Water Temperature and Flow Management Project.

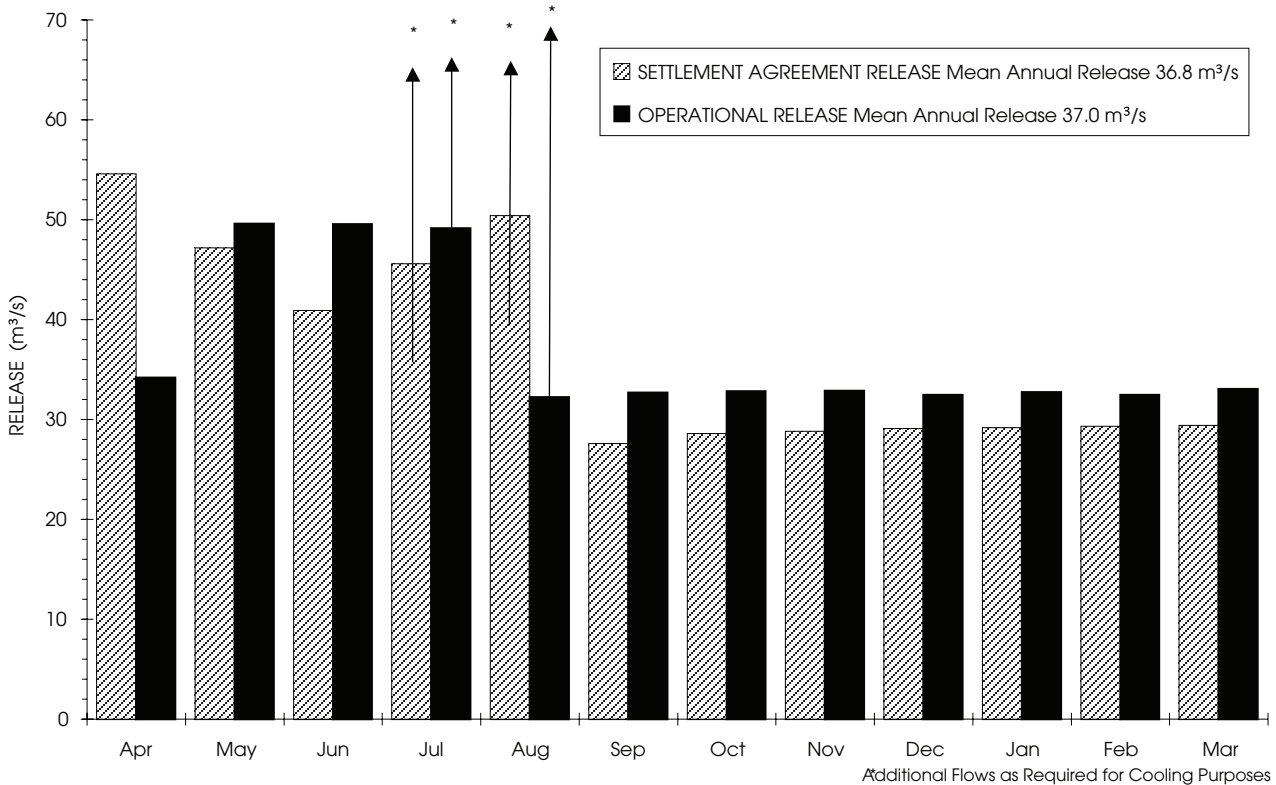
## RESULTS

A comparison of Settlement Agreement and operational mean monthly Skins Lake Spillway releases is presented in **Figure 1**. Releases presented in Figure 1 include an increase in the spill-

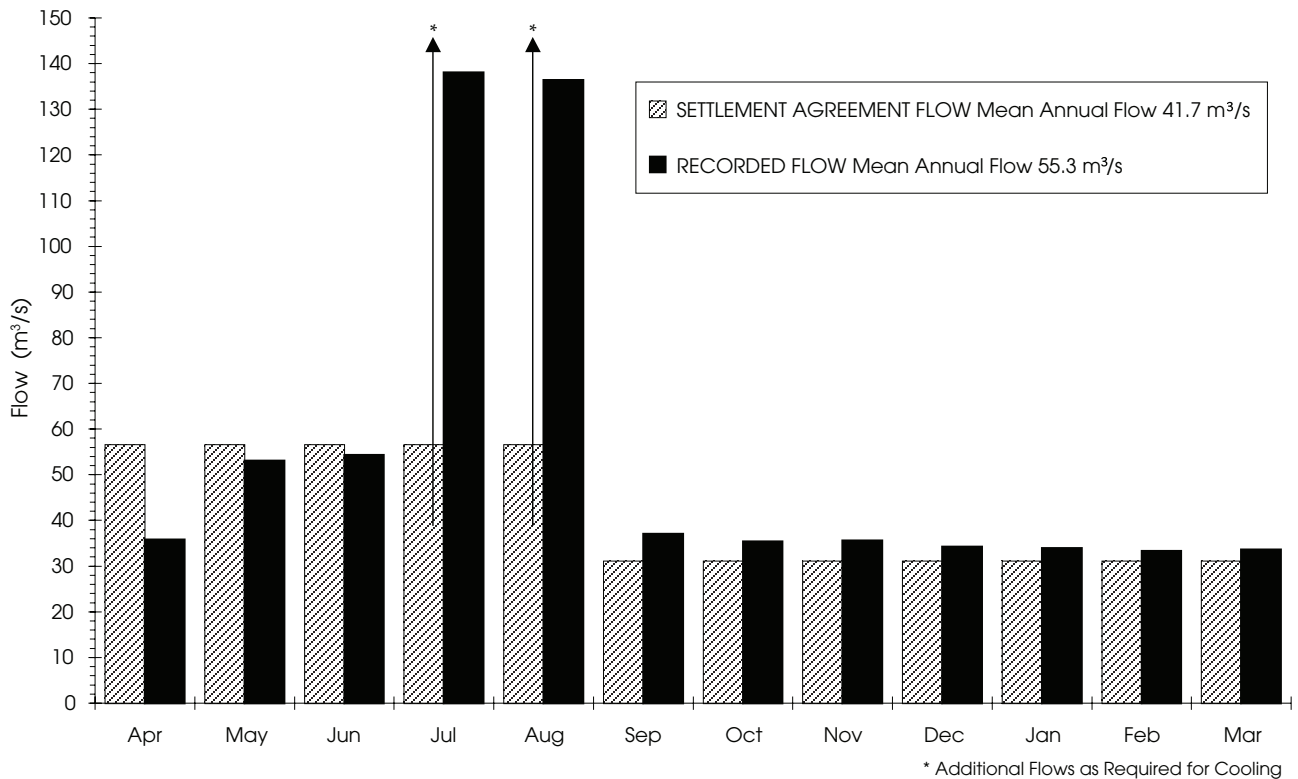
way release from the previous year’s winter release to approximately 49.0 m<sup>3</sup>/s initiated on April 24, 2003, and a spillway release reduction to the winter flow regime initiated on August 16, 2003. The mean annual operational release for the 2003/2004 water year was 37.0 m<sup>3</sup>/s. The Settlement Agreement AWA specifies a mean annual release of 36.8 m<sup>3</sup>/s. The difference between the operational release and the specified 36.8 m<sup>3</sup>/s is due to the nature of the spillway gate setting schedule in response to changing reservoir water surface elevations.

A comparison of Settlement Agreement and available recorded mean monthly flows in the Nechako River below Cheslatta Falls is presented in **Figure 2**. The Settlement Agreement AWA specifies an approximate mean annual flow of 41.7 m<sup>3</sup>/s in the Nechako River below Cheslatta Falls (plus additional flows as required for cooling purposes).

**FIGURE 1:** Comparison between Settlement Agreement and Operational Skins Lake Spillway Releases, April 2003 to March 2004





**FIGURE 2:****Comparison between Settlement Agreement and Recorded Nechako River Flows below Cheslatta Falls, April 2003 to March 2004**

Recorded mean daily Skins Lake Spillway releases and flow in the Nechako River below Cheslatta Falls for the 2003/2004 water year are presented in **Table 1**. The recorded mean annual Skins Lake Spillway release (including summer cooling water releases and spills) was 52.5 m<sup>3</sup>/s. The recorded mean annual flow in the Nechako River below Cheslatta Falls was 55.3 m<sup>3</sup>/s.

*Triton Environmental Consultants Ltd. 2003. The 2003 Summer Water Temperature and Flow Management Project. Nechako Fisheries Conservation Program Technical Report No. RM03-1. In preparation.*

## REFERENCES

*Anon. 1987. The 1987 Settlement Agreement between Alcan Aluminium Ltd. and Her Majesty the Queen in Right of Canada, represented by the Minister of Fisheries and Oceans, and her Majesty the Queen in Right of the Province of British Columbia, represented by the Ministry of Energy, Mines and Petroleum Resources.*

**TABLE 1:****Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
1-Apr-03	30.1	1,063	34.0	1,201
2-Apr-03	30.1	1,063	33.9	1,197
3-Apr-03	30.1	1,063	33.7	1,190
4-Apr-03	30.1	1,063	33.9	1,197
5-Apr-03	30.1	1,063	33.9	1,197
6-Apr-03	30.0	1,059	33.7	1,190
7-Apr-03	30.0	1,059	33.9	1,197
8-Apr-03	30.0	1,059	34.0	1,201
9-Apr-03	30.0	1,059	34.0	1,201
10-Apr-03	30.0	1,059	34.1	1,204
11-Apr-03	30.0	1,059	34.3	1,211
12-Apr-03	30.0	1,059	34.3	1,211
13-Apr-03	30.0	1,059	34.6	1,222
14-Apr-03	30.0	1,059	34.6	1,222
15-Apr-03	30.0	1,059	34.7	1,225
16-Apr-03	30.0	1,059	34.9	1,233
17-Apr-03	29.9	1,056	34.9	1,233
18-Apr-03	29.9	1,056	35.0	1,236
19-Apr-03	29.9	1,056	35.0	1,236
20-Apr-03	29.9	1,056	35.2	1,243
21-Apr-03	29.9	1,056	35.5	1,254
22-Apr-03	29.9	1,056	35.5	1,254
23-Apr-03	29.8	1,052	35.6	1,257
24-Apr-03	36.4	1,286	36.0	1,271
25-Apr-03	49.6	1,752	36.6	1,293
26-Apr-03	49.7	1,755	38.1	1,346
27-Apr-03	49.8	1,759	39.7	1,402
28-Apr-03	49.9	1,762	41.5	1,466
29-Apr-03	50.0	1,766	43.3	1,529
30-Apr-03	50.0	1,766	44.5	1,572
1-May-03	50.1	1,769	46.2	1,632
2-May-03	50.2	1,773	47.5	1,678
3-May-03	50.2	1,773	48.1	1,699
4-May-03	50.2	1,773	48.8	1,723
5-May-03	50.3	1,776	50.0	1,766
6-May-03	50.3	1,776	50.6	1,787
7-May-03	50.3	1,776	51.2	1,808
8-May-03	50.3	1,776	51.7	1,826
9-May-03	50.4	1,780	52.5	1,854
10-May-03	50.4	1,780	52.7	1,861
11-May-03	50.4	1,780	53.2	1,879

TABLE 1 (cont.):

## Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
12-May-03	50.5	1,783	53.5	1,889
13-May-03	50.5	1,783	53.9	1,904
14-May-03	49.7	1,755	54.2	1,914
15-May-03	48.7	1,720	54.3	1,918
16-May-03	48.7	1,720	54.5	1,925
17-May-03	48.7	1,720	54.7	1,932
18-May-03	48.7	1,720	54.5	1,925
19-May-03	48.7	1,720	54.2	1,914
20-May-03	48.8	1,723	54.3	1,918
21-May-03	48.8	1,723	54.3	1,918
22-May-03	48.8	1,723	54.5	1,925
23-May-03	48.9	1,727	54.3	1,918
24-May-03	49.0	1,730	54.7	1,932
25-May-03	49.1	1,734	55.5	1,960
26-May-03	49.2	1,738	55.3	1,953
27-May-03	49.2	1,738	55.2	1,949
28-May-03	49.3	1,741	55.2	1,949
29-May-03	49.4	1,745	55.0	1,942
30-May-03	49.5	1,748	55.5	1,960
31-May-03	49.6	1,752	55.7	1,967
1-Jun-03	49.7	1,755	55.8	1,971
2-Jun-03	49.8	1,759	56.0	1,978
3-Jun-03	49.9	1,762	55.7	1,967
4-Jun-03	49.9	1,762	55.5	1,960
5-Jun-03	50.0	1,766	55.3	1,953
6-Jun-03	49.7	1,755	55.3 *	1,953
7-Jun-03	49.2	1,738	55.3 *	1,953
8-Jun-03	49.3	1,741	55.3 *	1,953
9-Jun-03	49.4	1,745	55.3	1,953
10-Jun-03	49.5	1,748	55.0	1,942
11-Jun-03	49.6	1,752	55.0	1,942
12-Jun-03	49.6	1,752	55.0	1,942
13-Jun-03	49.7	1,755	55.2	1,949
14-Jun-03	49.8	1,759	54.8	1,935
15-Jun-03	49.9	1,762	54.8	1,935
16-Jun-03	49.9	1,762	54.8	1,935
17-Jun-03	49.9	1,762	54.3	1,918
18-Jun-03	50.0	1,766	54.7	1,932
19-Jun-03	50.0	1,766	54.8	1,935
20-Jun-03	49.7	1,755	54.7	1,932
21-Jun-03	49.1	1,734	54.7	1,932

**TABLE 1 (cont.):****Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
22-Jun-03	49.1	1,734	53.9	1,904
23-Jun-03	49.1	1,734	53.5	1,889
24-Jun-03	49.1	1,734	53.2	1,879
25-Jun-03	49.2	1,738	53.0	1,872
26-Jun-03	49.2	1,738	52.5	1,854
27-Jun-03	49.2	1,738	52.2	1,843
28-Jun-03	49.2	1,738	51.6	1,822
29-Jun-03	49.3	1,741	51.1	1,805
30-Jun-03	49.3	1,741	51.7	1,826
1-Jul-03	49.4	1,744	51.6	1822
2-Jul-03	49.4	1,745	51.7	1826
3-Jul-03	49.4	1,746	51.4	1815
4-Jul-03	49.4	1,746	51.1	1805
5-Jul-03	49.4	1,746	50.9	1798
6-Jul-03	49.5	1,747	50.4	1780
7-Jul-03	49.5	1,747	50.4	1780
8-Jul-03	49.5	1,749	50.6	1787
9-Jul-03	49.5	1,749	50.3	1776
10-Jul-03	49.5	1,749	49.8	1759
11-Jul-03	112.6	3,977	50.1	1769
12-Jul-03	227.5	8,035	52.5	1854
13-Jul-03	227.5	8,036	66.9	2363
14-Jul-03	227.4	8,032	85.4	3016
15-Jul-03	227.4	8,029	103.0	3637
16-Jul-03	307.3	10,854	120.0	4238
17-Jul-03	315.6	11,147	147.0	5191
18-Jul-03	89.4	3,156	171.0	6039
19-Jul-03	306.9	10,840	165.0	5827
20-Jul-03	341.4	12,055	187.0	6604
21-Jul-03	171.1	6,041	211.0	7452
22-Jul-03	171.0	6,038	208.0	7346
23-Jul-03	170.9	6,034	208.0	7346
24-Jul-03	170.8	6,031	208.0	7346
25-Jul-03	270.9	9,568	191.0	6745
26-Jul-03	452.9	15,995	206.0	7275
27-Jul-03	451.8	15,955	249.0	8793
28-Jul-03	377.8	13,340	290.0	10241
29-Jul-03	177.1	6,255	308.0	10877
30-Jul-03	14.6	514	292.0	10312
31-Jul-03	14.6	514	252.0	8899
1-Aug-03	69.4	2,451	215.0	7,593

**TABLE 1 (cont.):****Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
2-Aug-03	169.3	5,979	187.0	6,604
3-Aug-03	169.1	5,971	179.0	6,321
4-Aug-03	168.9	5,966	176.0	6,215
5-Aug-03	168.8	5,960	175.0	6,180
6-Aug-03	168.6	5,954	173.0	6,110
7-Aug-03	168.5	5,951	172.0	6,074
8-Aug-03	269.5	9,516	171.0	6,039
9-Aug-03	279.5	9,872	186.0	6,569
10-Aug-03	75.9	2,681	205.0	7,240
11-Aug-03	169.7	5,992	187.0	6,604
12-Aug-03	169.6	5,989	181.0	6,392
13-Aug-03	169.5	5,986	178.0	6,286
14-Aug-03	169.3	5,978	177.0	6,251
15-Aug-03	169.1	5,971	175.0	6,180
16-Aug-03	101.3	3,578	174.0	6,145
17-Aug-03	14.3	506	166.0	5,862
18-Aug-03	14.3	507	148.0	5,227
19-Aug-03	14.3	506	131.0	4,626
20-Aug-03	14.3	506	120.0	4,238
21-Aug-03	14.3	506	100.0	3,532
22-Aug-03	14.3	506	92.9	3,281
23-Aug-03	14.3	506	83.7	2,956
24-Aug-03	14.3	505	76.3	2,695
25-Aug-03	14.3	505	69.8	2,465
26-Aug-03	14.3	505	65.2	2,303
27-Aug-03	14.3	505	60.4	2,133
28-Aug-03	14.3	505	56.2	1,985
29-Aug-03	14.3	505	52.2	1,843
30-Aug-03	14.3	505	48.8	1,723
31-Aug-03	14.3	504	46.2	1,632
1-Sep-03	21.0	742	43.1	1,522
2-Sep-03	33.2	1,173	40.4	1,427
3-Sep-03	33.2	1,173	39.1	1,381
4-Sep-03	33.2	1,173	38.5	1,360
5-Sep-03	33.2	1,173	37.8	1,335
6-Sep-03	33.2	1,173	37.6	1,328
7-Sep-03	33.2	1,173	37.6	1,328
8-Sep-03	33.2	1,173	37.6	1,328
9-Sep-03	33.1	1,169	37.3	1,317
10-Sep-03	33.1	1,169	37.0	1,307
11-Sep-03	33.1	1,169	37.0	1,307

TABLE 1 (cont.):

**Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
12-Sep-03	33.1	1,169	36.9	1,303
13-Sep-03	33.1	1,169	36.5	1,289
14-Sep-03	33.1	1,169	36.3	1,282
15-Sep-03	33.1	1,169	36.0	1,271
16-Sep-03	33.0	1,165	35.9	1,268
17-Sep-03	33.0	1,165	36.0	1,271
18-Sep-03	33.0	1,165	35.6	1,257
19-Sep-03	33.0	1,165	35.9	1,268
20-Sep-03	33.0	1,165	36.0	1,271
21-Sep-03	33.0	1,165	35.9	1,268
22-Sep-03	33.0	1,165	36.9	1,303
23-Sep-03	33.0	1,165	36.9	1,303
24-Sep-03	33.0	1,165	36.3	1,282
25-Sep-03	33.1	1,169	36.5	1,289
26-Sep-03	33.0	1,165	36.5	1,289
27-Sep-03	33.0	1,165	36.2	1,278
28-Sep-03	33.0	1,165	35.9	1,268
29-Sep-03	33.0	1,165	35.7 *	1,261
30-Sep-03	33.0	1,165	35.6	1,257
1-Oct-03	33.0	1,165	35.6 *	1,257
2-Oct-03	32.9	1,162	35.6	1,257
3-Oct-03	32.9	1,162	35.3	1,247
4-Oct-03	32.9	1,162	35.3	1,247
5-Oct-03	32.9	1,162	35.3	1,247
6-Oct-03	32.9	1,162	35.3	1,247
7-Oct-03	32.8	1,158	35.5	1,254
8-Oct-03	32.8	1,158	35.0	1,236
9-Oct-03	32.8	1,158	34.7	1,225
10-Oct-03	32.8	1,158	34.9	1,233
11-Oct-03	32.7	1,155	34.4	1,215
12-Oct-03	32.7	1,155	34.3	1,211
13-Oct-03	32.7	1,155	34.4	1,215
14-Oct-03	32.7	1,155	34.4	1,215
15-Oct-03	32.7	1,155	33.7	1,190
16-Oct-03	32.7	1,155	34.0	1,201
17-Oct-03	32.7	1,155	34.1	1,204
18-Oct-03	32.7	1,155	34.9	1,233
19-Oct-03	32.7	1,155	35.2	1,243
20-Oct-03	32.7	1,155	35.2	1,243
21-Oct-03	32.7	1,155	35.2	1,243
22-Oct-03	32.7	1,155	35.5	1,254

**TABLE 1 (cont.):****Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
23-Oct-03	32.8	1,158	35.5	1,254
24-Oct-03	32.8	1,158	35.3	1,247
25-Oct-03	32.9	1,162	36.2	1,278
26-Oct-03	32.9	1,162	36.3	1,282
27-Oct-03	32.9	1,162	36.9	1,303
28-Oct-03	33.0	1,165	37.6	1,328
29-Oct-03	33.0	1,165	37.0	1,307
30-Oct-03	33.0	1,165	36.5	1,289
31-Oct-03	33.0	1,165	36.5	1,289
1-Nov-03	33.0	1,165	36.3	1,282
2-Nov-03	33.0	1,165	36.2	1,278
3-Nov-03	33.0	1,165	35.9	1,268
4-Nov-03	33.0	1,165	35.7	1,261
5-Nov-03	33.0	1,165	35.5	1,254
6-Nov-03	33.0	1,165	35.3	1,247
7-Nov-03	33.0	1,165	35.2	1,243
8-Nov-03	33.0	1,165	34.9	1,233
9-Nov-03	33.0	1,165	34.9	1,233
10-Nov-03	33.0	1,165	35.3	1,247
11-Nov-03	33.0	1,165	36.2	1,278
12-Nov-03	32.9	1,162	36.0	1,271
13-Nov-03	32.9	1,162	35.7	1,261
14-Nov-03	32.9	1,162	35.9	1,268
15-Nov-03	32.9	1,162	36.0	1,271
16-Nov-03	32.9	1,162	35.7	1,261
17-Nov-03	32.9	1,162	36.0	1,271
18-Nov-03	32.9	1,162	35.9	1,268
19-Nov-03	32.9	1,162	35.9	1,268
20-Nov-03	32.8	1,158	35.0	1,236
21-Nov-03	32.8	1,158	35.3	1,247
22-Nov-03	32.8	1,158	35.3	1,247
23-Nov-03	32.8	1,158	35.2	1,243
24-Nov-03	32.8	1,158	35.2	1,243
25-Nov-03	32.8	1,158	35.2	1,243
26-Nov-03	32.7	1,155	35.2	1,243
27-Nov-03	32.7	1,155	35.0	1,236
28-Nov-03	32.7	1,155	35.6	1,257
29-Nov-03	32.7	1,155	35.6	1,257
30-Nov-03	32.7	1,155	35.2	1,243
1-Dec-03	32.7	1,155	35.0	1,236
2-Dec-03	32.7	1,155	35.0	1,236

TABLE 1 (cont.):

**Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
3-Dec-03	32.6	1,151	35.0	1,236
4-Dec-03	32.6	1,151	34.3	1,211
5-Dec-03	32.6	1,151	34.6	1,222
6-Dec-03	32.6	1,151	34.6	1,222
7-Dec-03	32.6	1,151	34.6	1,222
8-Dec-03	32.5	1,148	34.7	1,225
9-Dec-03	32.5	1,148	34.4	1,215
10-Dec-03	32.5	1,148	34.1	1,204
11-Dec-03	32.5	1,148	34.0	1,201
12-Dec-03	32.5	1,148	34.0	1,201
13-Dec-03	32.4	1,144	34.3	1,211
14-Dec-03	32.4	1,144	34.1	1,204
15-Dec-03	32.4	1,144	34.7	1,225
16-Dec-03	32.4	1,144	34.1	1,204
17-Dec-03	32.4	1,144	34.0	1,201
18-Dec-03	32.3	1,141	34.3	1,211
19-Dec-03	32.3	1,141	33.9	1,197
20-Dec-03	32.3	1,141	34.0	1,201
21-Dec-03	32.3	1,141	34.1	1,204
22-Dec-03	32.3	1,141	33.7	1,190
23-Dec-03	32.2	1,137	34.1	1,204
24-Dec-03	32.2	1,137	34.3	1,211
25-Dec-03	32.2	1,137	34.4	1,215
26-Dec-03	32.2	1,137	34.0	1,201
27-Dec-03	32.1	1,134	34.0	1,201
28-Dec-03	32.1	1,134	34.0 *	1,201
29-Dec-03	32.5	1,148	33.9	1,197
30-Dec-03	33.1	1,169	33.9	1,197
31-Dec-03	33.1	1,169	34.0	1,201
1-Jan-04	33.0	1,165	34.1 *	1,202
2-Jan-04	33.0	1,165	33.9 *	1,199
3-Jan-04	33.0	1,165	33.9 *	1,199
4-Jan-04	33.0	1,165	34.0 *	1,201
5-Jan-04	32.9	1,162	34.1 *	1,202
6-Jan-04	32.9	1,162	34.1 *	1,202
7-Jan-04	32.9	1,162	34.1 *	1,202
8-Jan-04	32.9	1,162	34.1 *	1,202
9-Jan-04	32.8	1,158	34.1 *	1,206
10-Jan-04	32.8	1,158	34.2 *	1,207
11-Jan-04	32.8	1,158	34.3 *	1,211
12-Jan-04	32.8	1,158	34.1 *	1,206



TABLE 1 (cont.):

## Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
13-Jan-04	32.8	1,158	34.4 *	1,214
14-Jan-04	32.7	1,155	34.4 *	1,216
15-Jan-04	32.7	1,155	34.2 *	1,209
16-Jan-04	32.7	1,155	34.3 *	1,211
17-Jan-04	32.7	1,155	34.2 *	1,209
18-Jan-04	32.7	1,155	34.1 *	1,206
19-Jan-04	32.6	1,151	34.1 *	1,202
20-Jan-04	32.6	1,151	33.6 *	1,187
21-Jan-04	32.6	1,151	33.4 *	1,179
22-Jan-04	32.6	1,151	33.6 *	1,186
23-Jan-04	32.6	1,151	33.6 *	1,187
24-Jan-04	32.5	1,148	33.8 *	1,194
25-Jan-04	32.5	1,148	33.9 *	1,197
26-Jan-04	32.5	1,148	33.7 *	1,191
27-Jan-04	32.5	1,148	33.5 *	1,184
28-Jan-04	32.5	1,148	33.6 *	1,187
29-Jan-04	32.5	1,148	33.4 *	1,181
30-Jan-04	32.5	1,148	33.4 *	1,181
31-Jan-04	32.4	1,144	33.4	1,181
1-Feb-04	32.4	1,144	33.5	1,184
2-Feb-04	32.4	1,144	33.4	1,181
3-Feb-04	32.4	1,144	33.4	1,179
4-Feb-04	32.3	1,141	33.5	1,182
5-Feb-04	32.3	1,141	33.6	1,186
6-Feb-04	32.3	1,141	33.5	1,184
7-Feb-04	32.3	1,141	33.6	1,186
8-Feb-04	32.3	1,141	33.5	1,182
9-Feb-04	32.2	1,137	33.3	1,177
10-Feb-04	32.2	1,137	33.4	1,179
11-Feb-04	32.2	1,137	33.4	1,180
12-Feb-04	32.2	1,137	33.4	1,180
13-Feb-04	32.1	1,134	33.3	1,176
14-Feb-04	32.1	1,134	33.2	1,173
15-Feb-04	32.1	1,134	33.2	1,173
16-Feb-04	32.1	1,134	32.8	1,158
17-Feb-04	32.0	1,130	32.9	1,162
18-Feb-04	32.5	1,148	33.0	1,165
19-Feb-04	33.0	1,165	33.0	1,165
20-Feb-04	33.0	1,165	33.1	1,169
21-Feb-04	32.9	1,162	33.1	1,169
22-Feb-04	32.9	1,162	32.9	1,162

**TABLE 1 (cont.):**

**Recorded Skins Lake Spillway Releases and Flows in Nechako River below Cheslatta Falls 2003/2004 Water Year (April 1, 2003 to March 31, 2004)**

Date 2003/2004	Skins Lake Spillway Release		Nechako R. Below Cheslatta Falls	
	(m <sup>3</sup> /s)	(cfs)	(m <sup>3</sup> /s)	(cfs)
23-Feb-04	32.9	1,162	32.9	1,162
24-Feb-04	32.8	1,158	33.0	1,165
25-Feb-04	32.8	1,158	33.3	1,176
26-Feb-04	32.8	1,158	33.2	1,173
27-Feb-04	32.8	1,158	33.1	1,169
28-Feb-04	32.8	1,158	33.2	1,173
29-Feb-04	32.7	1,155	33.2	1,173
1-Mar-04	32.7	1,155	33.2	1,173
2-Mar-04	32.7	1,155	33.0	1,165
3-Mar-04	32.7	1,155	33.2	1,173
4-Mar-04	32.6	1,151	33.5	1,183
5-Mar-04	32.6	1,150	33.3	1,176
6-Mar-04	32.6	1,150	33.3	1,176
7-Mar-04	32.6	1,151	33.4	1,180
8-Mar-04	32.6	1,151	33.6	1,187
9-Mar-04	32.6	1,150	33.8	1,194
10-Mar-04	32.6	1,150	33.4	1,180
11-Mar-04	32.5	1,149	33.3	1,176
12-Mar-04	32.9	1,163	33.6	1,187
13-Mar-04	33.5	1,183	33.3	1,176
14-Mar-04	33.5	1,183	33.4	1,180
15-Mar-04	33.4	1,180	33.5	1,183
16-Mar-04	33.4	1,180	33.5	1,183
17-Mar-04	33.4	1,180	33.4	1,180
18-Mar-04	33.4	1,180	33.6	1,187
19-Mar-04	33.4	1,180	33.6	1,187
20-Mar-04	33.3	1,176	33.6	1,187
21-Mar-04	33.3	1,176	33.6	1,187
22-Mar-04	33.3	1,176	33.6	1,187
23-Mar-04	33.3	1,176	33.7	1,190
24-Mar-04	33.2	1,173	33.6	1,187
25-Mar-04	33.2	1,173	33.7	1,190
26-Mar-04	33.2	1,173	33.7	1,190
27-Mar-04	33.2	1,173	33.9	1,197
28-Mar-04	33.2	1,173	33.9	1,197
29-Mar-04	33.2	1,173	33.8	1,194
30-Mar-04	33.1	1,169	34.3	1,211
31-Mar-04	33.1	1,169	34.5	1,218
<b>Annual</b>	<b>52.487</b>	<b>1853.6</b>	<b>55.318</b>	<b>1953.6</b>

\* Estimated because of ????????