THE 2015 SUMMER WATER TEMPERATURE AND FLOW MANAGEMENT PROJECT

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ABSTRACT

The 2015 Nechako River Summer Water Temperature and Flow Management Project (the Project) was undertaken to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) between July 20 and August 20. Water temperatures were managed by regulating Skins Lake Spillway releases to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. In 2015, mean daily water temperatures in the Nechako River above the Stuart River confluence did exceed 20.0°C (68.0°F) on three occasions (July 10, 11 and 19), however all exceedances occurred prior to the water temperature control period.

Over the duration of the 2015 Summer Water Temperature and Flow Management Project (July 10 to August 20), the total volume of water released was 7,984.8 m³/s-d, (281,983 cfs-d), and the average release during the Project was 190.1 m³/s (6,713.9 cfs).

INTRODUCTION

The Nechako River Summer Water Temperature and Flow Management Project (the Project) was designed and developed in 1982 and has been successfully implemented since 1983. Since 1988, water temperature and flow management projects (Triton 1995a through Triton 1995h; Triton 1996 through Triton 2010; Triton 2013; Triton 2014) have been carried out under the auspices of the Nechako Fisheries Conservation Program (NFCP).

The objective of the Project is to attempt to prevent mean daily water temperatures in the Nechako River above the Stuart River confluence (at Finmoore) from exceeding 20.0°C (68.0°F) by regulating releases from the Skins Lake Spillway to control flows in the Nechako River below Cheslatta Falls and at Vanderhoof. The Project operates from July 10 to August 20 (the operational period) with the goal of managing water temperatures in the Nechako River at Finmoore between July 20 and August 20 (the water temperature control period, hereafter referred to as the control period). These dates may vary as directed by the NFCP in accordance with the timing of sockeye runs in the system, but were followed in 2015. At the completion of the Project, flows in the Nechako River at Cheslatta Falls are reduced to fall spawning flows by early September.

The Project study area is shown in Figure 1. Unless otherwise stated, references to water temperature, flow (including releases), and meteorological data are mean daily values. Note that water temperature measurements for the Nechako River above the Stuart River confluence are made at Finmoore (the closest readily accessible location) while river discharge measurements are made Vanderhoof (at the Water Survey of Canada discharge measuring site).

This report reviews the 2015 Summer Water Temperature and Flow Management Project and includes:

- An outline of the method for determining Skins Lake Spillway releases and summaries of the 2015 Skins Lake Spillway releases for the period July 10 to August 20 inclusive;
- Recorded flows and water temperatures (July 10 to August 20) at various locations along the Nechako River; and,
- The volume of cooling water used in the 2015 Summer Water Temperature and Flow Management Project.

METHODS

Management of the Nechako River flows and water temperatures used water temperature predictions based on five-day meteorological forecasts provided by Environment Canada to determine the schedule of Skins Lake Spillway releases required to meet project objectives. The Temperature and Flow Summer Water Management uses an unsteady-state flow routing model and an unsteady-state water temperature prediction model designed to compute daily flows and water temperatures in the Nechako River during the entire operational period (Envirocon Limited, 1984a,b,c and 1985).

Daily operations followed the protocol defined in the Settlement Agreement (Anon. 1987), and involved collection of water temperature and river stage and discharge data from several locations in the study area, as well as development of five-day meteorological forecasts.

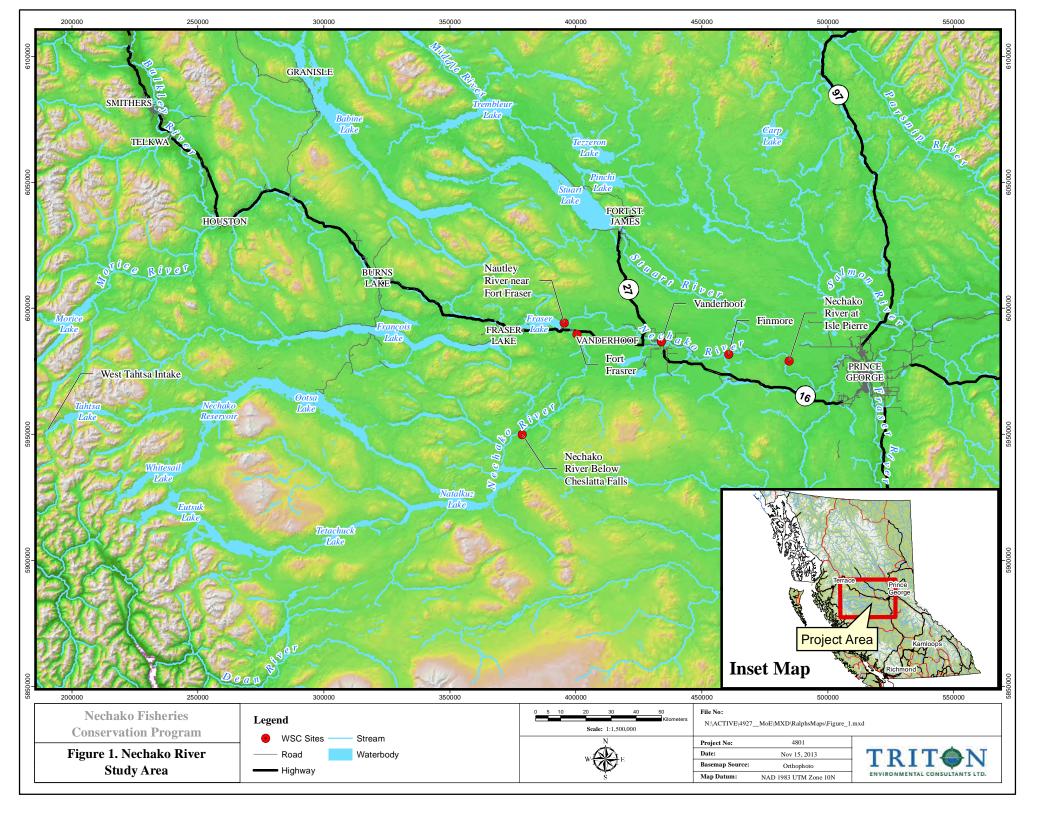
Water temperatures were obtained daily from temperature loggers maintained in the Nechako River below Cheslatta Falls (at Bert Irvine's Lodge), in the Nechako River at Fort Fraser (upstream of the Nautley River), in the Nechako River above the Stuart River confluence, and in the Nautley River. Water temperature data for the Nechako River below Cheslatta Falls and the Nautley River were provided by Water Survey of Canada. Water temperature data in the Nechako River at Fort Fraser and in the Nechako River above the Stuart River confluence were obtained using Unidata 6570A temperature probes which were then downloaded via satellite from the Rom Communications website.

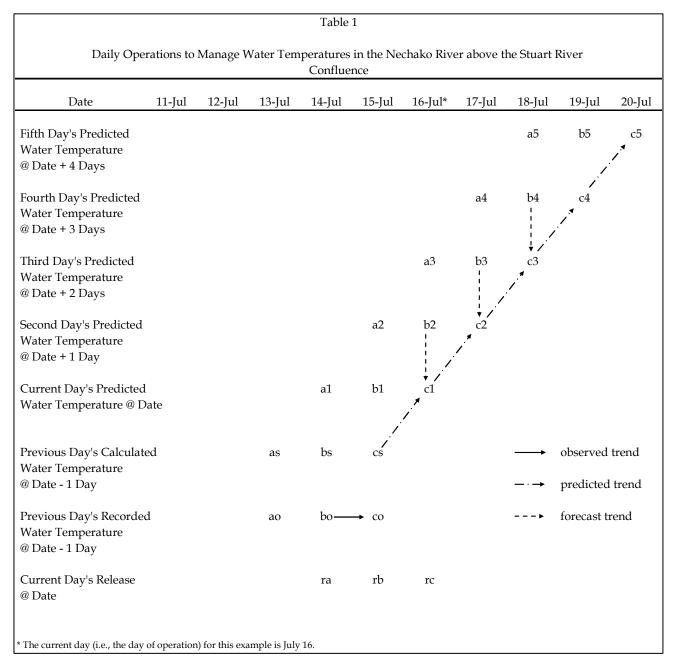
River stages were obtained daily from Water Survey of Canada recorders maintained in the Nechako River below Cheslatta Falls, in the Nechako River at Vanderhoof, and in the Nautley River, and were obtained daily via the Environment Canada (Water Survey of Canada, WSC) website (www.wateroffice.ec.gc.ca). Five-day meteorological forecasts were downloaded daily from Environment Canada's server.

The first 10 days of the operational period, July 10 to July 19, were utilized for system start up,

for initialization of the database required to schedule Skins Lake Spillway releases, and to increase flows in the Nechako River from spring flows to the minimum cooling flow of 170 m³/s (6,000 cfs) below Cheslatta Falls. Due to higher than normal reservoir and estimated snowpack, discharge at the SLS at the start of the operational period was higher than typical (150)(5300 cfs)). vears m^3/s commencement of the operational period on July 10, the recorded flow in the Nechako River below Cheslatta Falls was 246.7 m³/s (8,713 cfs). The Skins Lake Spillway was increased to 200 m³/s (7,060 cfs) on July 12 to ensure flows in the Nechako River below Cheslatta Falls remained above the minimum cooling flow of $170 \text{ m}^3/\text{s}$ (6,000 cfs).

Throughout the operational period, water temperatures in the Nechako River were calculated daily for the previous day, the current day, and each of the next four days using the unsteady-state flow routing and water temperature prediction models. These calculations were based on recorded and five-day forecast meteorological data, recorded water temperature, and computed flow data. Forecast water temperature predictions were tabulated and reviewed daily to identify trends in water temperature changes





These trends are the same as those used in the water temperature and flow management projects since 1984 (Envirocon Ltd. 1985), and are best explained through reference to Table 1.

Assuming the current day is July 16, entries corresponding to the current day's operation are represented by the letter *c*. Entries *co* and *cs* represent the recorded and calculated water temperatures, respectively, for the previous day (July 15).

Entries *c1* through *c5* represent predicted water temperatures computed using the current day's five-day meteorological forecast and an assumed current day's flow regime. The entry *rc* represents the current day Skins Lake Spillway release required to meet Project objectives.

The following three trends in water temperature changes were reviewed on a dayby-day basis:

- 1. Observed trend developed from recorded mean daily temperatures measured in the Nechako River above the Stuart River confluence each day (bo and co in Table 1). The difference in recorded temperatures for the previous two days is extrapolated over the next five days to determine the observed water temperature trend.
- 2. Predicted trend developed from the predicted water temperatures for the previous day and the following five days (*cs, c1, c2, c3, c4, c5,* in Table 1). These data represent the predicted trend.
- 3. Forecast trend developed from the difference between the current five-day and previous five-day predictions for the same calendar days (*c*3 and *b*4, *c*2 and *b*3, *c*1 and *b*2 in Table 1). Differences between forecasted data on coincident dates for the current day and the next two days only are averaged and added to the fifth day predicted temperature to determine the trend in forecasted temperatures.

A numerical example of how the trends are calculated is presented in Appendix A.

Each day predicted water temperatures for the five-day forecast period were checked and the three trends calculated. If two of the three trends indicated that the water temperature in the Nechako River above the Stuart River confluence could potentially exceed 19.4°C (67.0°F) then an increase in the Skins Lake Spillway release was required. When this occurred the current day's release was revised and the flow and temperature models were rerun using the modified flow regime. Results of each day's final computer run were subsequently used to initialize water temperatures for the following day's computations. Entries in Table 1 represent each day's final cooling water release and resultant predicted water temperatures.

The following release criteria were used with the three trends identified above to determine the timing and magnitude of Skins Lake Spillway releases:

- 1. When two of the three trends show an increase in water temperature in the Nechako River above the Stuart River confluence, and these trends show that potentially the water temperature could exceed 19.4°C (67.0°F), increase the Skins Lake Spillway release according to criteria 2 and 3 below.
- 2. Operate Skins Lake Spillway such that flow in the Nechako River below Cheslatta Falls ranges between 170 m³/s (6,000 cfs) and 283 m³/s (10,000 cfs) as required, and flow in the Nechako River above the Stuart River confluence (as measured at Vanderhoof) does not exceed 340 m³/s (12,000 cfs). It is understood that the flow in the Nechako River below Cheslatta Falls is to be not less than 170 m³/s (6,000 cfs) by the beginning of the control period, and is to be reduced to approximately 31.9 m³/s (1,124 cfs) by September 1.
- 3. At any time, increase the Skins Lake Spillway release from the current level to 453 m³/s (16,000 cfs) to achieve the flow changes in the Nechako River as quickly as possible.
- 4. During cooling periods when two of three trends in forecasted water temperatures are decreasing and these trends indicate that potentially the water temperature could drop below 19.4°C (67.0°F) within the forecast period (five days), reduce the Skins Lake Spillway release from the current level to 14.2 m³/s (500 cfs).

RESULTS

Predicted and recorded mean daily water temperatures for the Nechako River above the Stuart River confluence, Skins Lake Spillway releases, and changes in Skins Lake Spillway releases over the duration of the Project operational period are summarized in Table 2.

Mean daily water temperatures recorded during the control period in the Nechako River above the Stuart River confluence (Figure 2 and Table 3) did not exceed 20.0°C (68.0°F) during the 2015 STMP. The respective maximum and minimum mean daily water temperatures recorded during the control period were 19.3°C (66.7°F) on July 20 and 17.4°C (63.3°F) on July 25 and August 4. Mean daily water temperatures in the Nechako River below Cheslatta Falls, near Fort Fraser and above the Stuart River confluence, and in the Nautley River near Fort Fraser are presented in Appendix B.

Skins Lake Spillway releases and their corresponding flows in the Nechako River below Cheslatta Falls and at Vanderhoof are plotted in Figure 3 (source data are provided in Appendix C). Changes in Skins Lake Spillway releases during the STMP were made on the following dates:

- July 12 Increase to 200 m³/s to increase flow in Nechako River below Cheslatta Falls to STMP base flow by July 20.
- 2. July 16 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 3. July 18 Decrease to 283 m³/s to limit flow in the Nechako River below Cheslatta Falls to maximum of 283 m³/s.
- 4. July 19 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.

- 5. July 21 Increase to 170 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 6. July 30 Increase to 200 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 7. August 2 Increase to 453 m³/s to increase flow in Nechako River below Cheslatta Falls in response to warming trend.
- 8. August 4 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.
- 9. August 7 Increase to 170 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 10. August 12 Increase to 200 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at summer base flow.
- 11. August 18 Decrease to 14.2 m³/s to decrease flow in Nechako River below Cheslatta Falls in response to cooling trend.
- 12. August 21 Increase to 32.0 m³/s to ensure flow in Nechako River below Cheslatta Falls is maintained at fall spawning flow.

During the control period, measured flows in the Nechako River below Cheslatta Falls (based on preliminary WSC data from the WSC data collection platform at Bert Irvine's Lodge) ranged between a maximum of 261 m³/s (9,230 cfs) on July 20 and a minimum of 155 m³/s (5,475 cfs) on August 20. Flows measured in the Nechako River at Vanderhoof ranged between a maximum of 315.5 m³/s (11,141 cfs) on July 21 and a minimum of 189.5 m³/s (6,693 cfs) on August 14.

DISCUSSION

The discussion of the 2015 Summer Water Temperature and Flow Management Project has been divided into three sections. The first section reviews the collection and use of recorded field data, including water temperature, flow, and meteorological data (recorded and forecast). The second section discusses the volume of water used during the 2015 Summer Water Temperature and Flow Management Project. The third provides a brief discussion of the application of the Project release criteria.

Recorded Data

The modelling procedure was initialized using recorded conditions. The quality of the field data used in the modelling process directly affects the accuracy of the computed water temperatures. Therefore, data must be collected accurately and consistently to ensure that random errors are kept to a minimum. Further, consistency in data collection techniques also ensures that, if a bias exists in the data, it remains relatively constant throughout the project.

In 2015, river discharges in the Nechako River below Cheslatta Falls and at Vanderhoof as recorded by the Water Survey of Canada changed as expected in response to Skins Lake Spillway releases (Figure 3). The hourly stage data from the gauging station located on the Nechako River below Cheslatta Falls proved very useful in verifying the daily predictions of the flow routing model and to account for changes in the local inflow to the Cheslatta/Murray Lakes system.

As previously stated, water temperatures recorded by data loggers were obtained daily from the Rom Communications website for the Nechako River at Fort Fraser and in the Nechako River above the Stuart River confluence.

Recorded water temperatures in the Nechako River above the Stuart River confluence did exceed 20°C on three occasions. All of the exceedances occurred prior to the water temperature control period (July 10, 11 and 19).

Volume of Water Used

The recorded flows in the Nechako River below Cheslatta Falls for the 2015 Summer Water Temperature and Flow Management Project are shown in Figure 4. Also indicated is the minimum cooling flow of 170 m³/s (6,000 cfs) in the Nechako River below Cheslatta Falls, and the Skins Lake Spillway spring base release of 49.0 m³/s (1,730 cfs) as determined by the NFCP Technical Committee as part of the "Annual Water Allocation" defined in the 1987 Settlement Agreement (Anon. 1987).

The total volume of water released during the 2015 Summer Water Temperature and Flow Management Project operational period was 7,984.8 m³/s-d, (281,983 cfs-d). The volume released for cooling purposes was 6,010.6 m³/s-d (212,266 cfs-d), and is based on an assumed Skins Lake Spillway minimum release for fish protection purposes (part of the Annual Water Allocation) of 49.0 m³/s (1,730 cfs) for the period July 10 to August 15, inclusive, with a reduction to 14.2 m³/s (500 cfs) until August 20. The average release during the operational period was 190.1 m³/s (6,713.9 cfs). Volume calculations are presented in Appendix E.

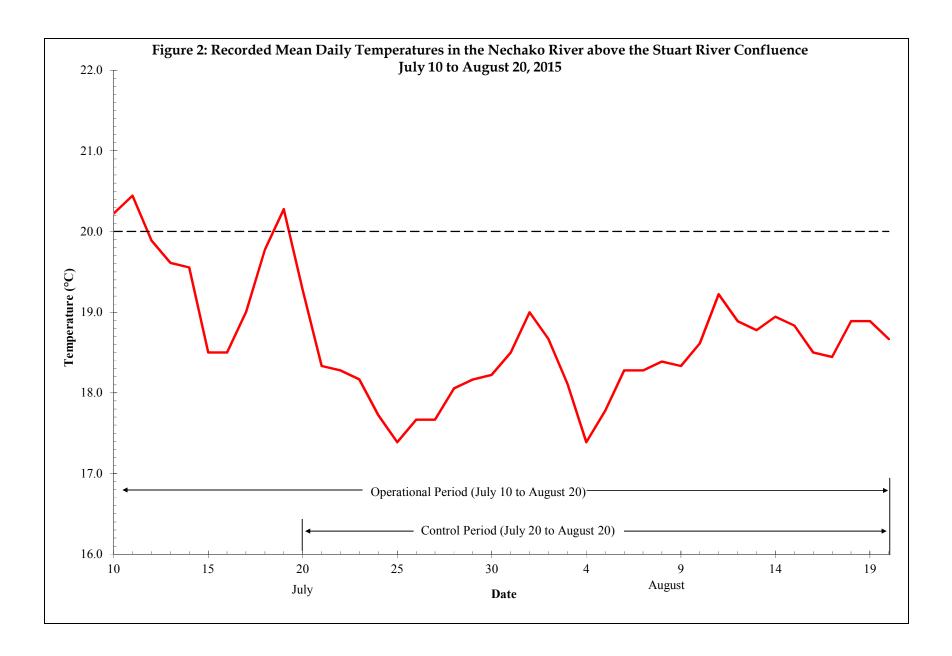
Table 2 Predicted and Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2015 JULY Date 15 17 18 19 20 21 22 23 27 12 13 14 16 24 25 26 28 5th Day's Predicted Water Temperature 20.4 21.3 21.2 20.3 19.7 18.2 17.8 18.0 17.9 at Date + 4 Days 4th Day's Predicted Water Temperature 20.5 19.2 19.5 20.2 21.1 21.0 20.3 18.0 17.9 17.8 18.0 17.8 17.8 18.5 at Date + 3 Days 3rd Day's Predicted Water Temperature 20.3 19.4 20.1 20.5 20.8 19.6 18.1 17.6 18.1 17.6 17.7 at Date + 2 Days 2nd Day's Predicted Water Temperature 18.7 19.2 19.3 20.2 20.7 19.0 17.7 17.6 17.4 17.8 17.2 17.5 17.4 at Date + 1 Day Current Day's Predicted Water Temperature 19.0 18.5 17.9 19.2 19.2 18.8 18.5 19.1 20.1 20.0 18.8 18.0 17.4 17.9 17.3 17.1 17.1 17.2 at Date Previous Day's Calculated Water Temperature 18.7 19.0 19.1 18.2 19.0 19.9 19.7 18.7 18.0 17.3 17.5 17.2 16.9 17.0 17.1 17.2 18.5 18.2 18.2 at Date - 1 Day Previous Day's Recorded Water Temperature 20.2 20.4 19.9 19.6 19.6 19.4 18.5 18.5 19.0 19.8 20.3 19.3 18.3 18.3 18.2 17.7 17.4 17.7 at Date - 1 Day Current Day's Skins Lake Spillway Release 150 150 200.0 200.0 453.1 453.1 14.2 170 150 200.0 283 14.2 170 170 170 170 170 170 170 170 200 at Date to to to to 453.1 283 200 (m^3/s) 200 14.2 170 (a) (a) (a) (a) (a) (a) 1800 1600 1600 1600 1600 1600 hrs hrd hrs hrs hrs hrs

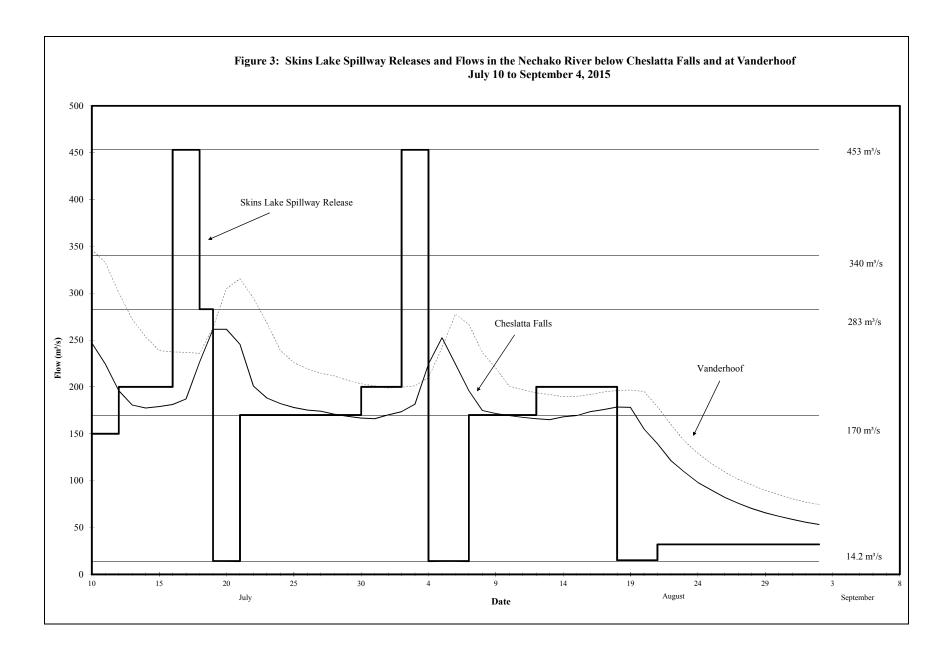
able 2 (continued)																				
											AUGUST									
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5th Day's Predicted																				
Water Temperature	18.8	18.2	17.5	19.3	20.1	19.3	19.4	18.7	18.0	18.5	17.5	19.1	18.7	18.7	18.4	18.3	17.9	17.9	18.7	18.5
at Date + 4 Days																				
4th Day's Predicted																				
Water Temperature	18.6	17.9	19.2	19.8	19.2	19.3	18.5	18.0	18.5	18.1	18.9	18.6	19.2	18.1	18.7	18.8	18.1	18.1	18.8	19.2
at Date + 3 Days																				
3rd Day's Predicted																				
Water Temperature	18.0	19.0	19.1	19.1	19.2	18.1	18.5	18.9	18.5	18.4	18.8	19.3	18.2	18.5	19.4	18.5	18.0	18.7	18.9	18.9
at Date + 2 Days																				
2nd Day's Predicted																				
Water Temperature	18.4	18.0	18.6	18.9	17.8	18.6	19.0	18.7	17.8	18.3	18.8	18.3	18.0	19.0	18.8	18.3	18.4	18.5	18.6	19.2
at Date + 1 Day																				
Current Day's Predicted																				
Water Temperature	17.7	18.6	18.9	18.0	18.0	18.1	18.6	18.0	17.7	18.4	18.5	18.2	18.7	18.8	18.7	18.6	18.5	18.5	19.1	19.1
at Date																				
Previous Day's Calculated																				
Water Temperature	18.1	18.6	18.4	17.9	17.6	17.9	18.4	17.7	17.7	18.2	18.3	18.4	18.7	18.7	18.7	18.5	18.4	18.6	18.9	
at Date - 1 Day																				
Previous Day's Recorded																				
Water Temperature	18.2	18.5	19.0	18.7	18.1	17.4	17.8	18.3	18.3	18.4	18.3	18.6	19.2	18.9	18.8	18.9	18.8	18.5	18.4	
at Date - 1 Day																				
Current Day's																				
Skins Lake Spillway Release	200	200	453.1	453.1	14.2	14.2	14.2	170	170	170	170	170	200	200	200	200	200	200	15	15
at Date		to		to			to					to						to		
(m³/s)		453.1		14.2			170					200						15		
		@		@			@					@						@		
		1600 hrs		1600 hrs			0800 hrs					1600 hrs						1600 hrs		

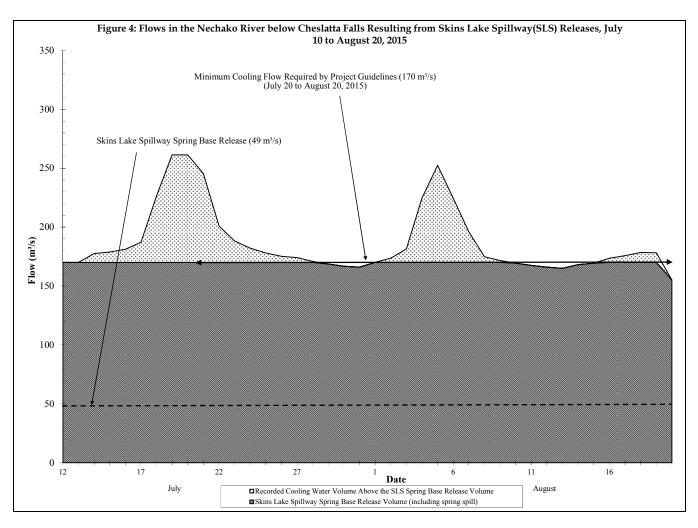
Table 3

Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, July 10 to August 20, 2015

Date	Water Temperature (°C)	Date	Water Temperature (°C)
10-Jul	20.2	01-Aug	19.0
11-Jul	20.4	02-Aug	18.7
12-Jul	19.9	03-Aug	18.1
13-Jul	19.6	04-Aug	17.4
14-Jul	19.6	05-Aug	17.8
15-Jul	18.5	06-Aug	18.3
16-Jul	18.5	07-Aug	18.3
17-Jul	19.0	08-Aug	18.4
18-Jul	19.8	09-Aug	18.3
19-Jul	20.3	10-Aug	18.6
20-Jul	19.3	11-Aug	19.2
21-Jul	18.3	12-Aug	18.9
22-Jul	18.3	13-Aug	18.8
23-Jul	18.2	14-Aug	18.9
24-Jul	17.7	15-Aug	18.8
25-Jul	17.4	16-Aug	18.5
26-Jul	17.7	17-Aug	18.4
27-Jul	17.7	18-Aug	18.9
28-Jul	18.1	19-Aug	18.9
29-Jul	18.2	20-Aug	18.7
30-Jul	18.2	J	
31-Jul	18.5		







Application of the Summer Water Temperature and Flow Management Project Release Criteria

The Summer Water Temperature and Flow Management Project flow release decisions can be sensitive to the accuracy of meteorological forecasting. If an increase or decrease in temperature occurs over a prolonged period of time (three or four days), inaccurate meteorological may predict the forecasts reversal the temperature change prematurely.

In these instances, it may be required to exercise judgment when applying the Summer Water Temperature and Flow Management Project release criteria used with the three water temperature trends. This judgment is based on experience gained in the operation of the Summer Water Temperature and Flow Management Project since 1984 and may result in exceptions to the decision based on strict adherence to the release criteria. Exceptions were made to the application of the release criteria in 2015.

On July 31, 2015 two of three water temperature trends indicated water temperature could exceed 19.4°C (67°F) in the Nechako River above Stuart River within the forecast period (5 days). The remaining trend, however, showed that the water temperature could be less than 19.4°C (67°F) within the forecast period. Following these release criteria under these conditions, the release from Skins Lake Spillway could have been increased from

the current release of 200 m³/s (7,060 cfs) to 453 m³/s (16,000 cfs). However, as there was no strong warming trend indicated, rather than increase the discharge it was conservatively decided to maintain the spillway release at 200 m³/s (7,060 cfs). A warming trend was established on August 2 and releases were increased in accordance with the Protocol.

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APPENDIX A Numerical Example of Water Temperature Trend Calculation

Appendix A

Numerical Example of Water Temperature Trend Calculation

From data for July 16 date of operation (Table A1).

1. Observed Trend

The observed trend is up by 0.6° C from 17.9° C (J14) to 18.5° C (J15). Take the previous day's recorded temperature 18.9° C (J15) and extrapolate the trend for five days at $+0.6^{\circ}$ C. The observed trend shows that the water temperature could potentially reach 17.9° C + $5(+0.6^{\circ}$ C) = 20.9° C.

2. Predicted Trend

The predicted trend is the difference between the previous day's calculated water temperature (J15) and the fifth day predicted water temperature (J20). The predicted trend is down from 18.7°C to 18.5°C with the potential to reach 18.5°C.

3. Forecast Trend

The forecast trend for the current day of July 16 is based on the first, second and third day forecasts.

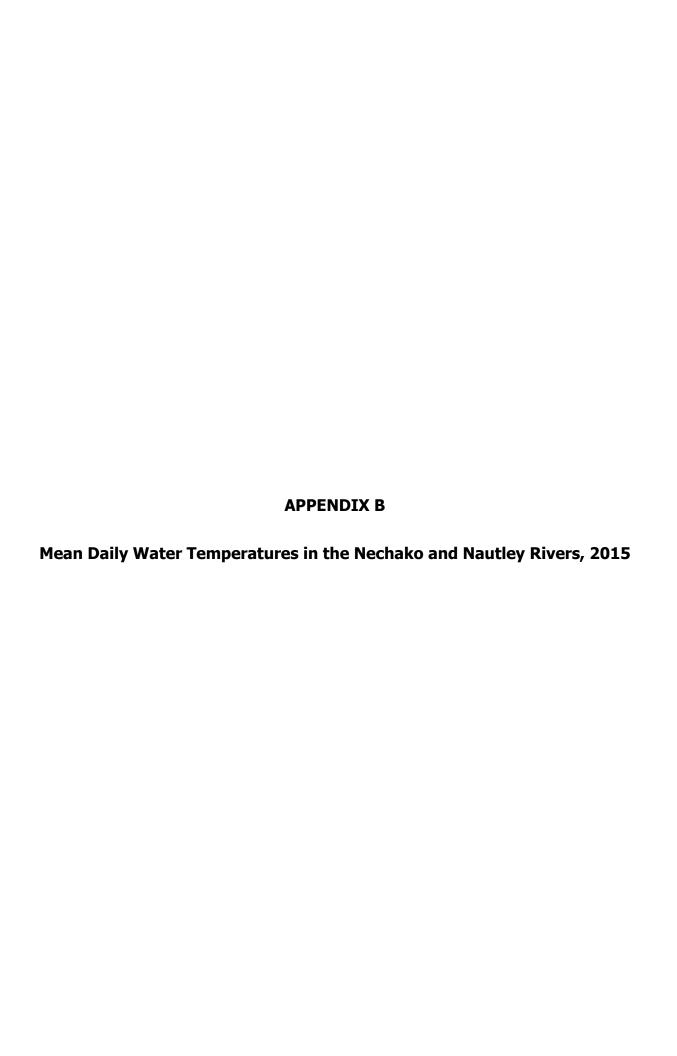
July 16	19.2 to 17.6	=	down	1.6°C
July 17	18.8 to 17.8	=	down	1.0°C
July 18	18.9 to 18.0	=	down	0.9°C

Mean of 3 differences = down 1.2°C

This mean of -1.2°C is added to the fifth day predicted water temperature to give 18.5°C + (-1.2°C) = 17.3°C.

 $Table\ A1$ Predicted and Recorded Mean Daily Water Temperatures in the Nechako River above the Stuart River Confluence, 2010

							heesesson				
							JULY				
Date	10	11	12	13	14	15	16	17	18	19	20
54 5 1 5 4 4											
5th Day's Predicted					47.6		20.2		20.2	40.0	10.5
Water Temperature					17.6	18.9	20.2	19.4	20.2	19.3	18.5
at Date + 4 Days											
4th Day's Predicted											
Water Temperature				18.3	18.0	19.6	19.0	19.6	18.9	18.4	
at Date + 3 Days											
3rd Day's Predicted											
Water Temperature			19 6	18.3	18.9	18.3	19.2	18.8	18.0		
at Date + 2 Days				20.5	20.5	20.2		20.0	20.0		
2nd Day's Predicted											
Water Temperature		20.5	19.9	19.0	17.6	18.7	19.2	17.8			
at Date + 1 Day											
Current Day's Predicted											
Water Temperature	20.8	21.3	20.1	17.3	18.1	19.3	17.6				
at Date											
Previous Day's Calculated											
Water Temperature	20.9	21.5	20.0	17.2	18.2	18.7					
at Date - 1 Day											
Previous Day's Recorded											
Water Temperature	21.1	21.6	21.6	19.7	17.9	18.5					
at Date - 1 Day											
Current Day's											
Skins Lake Spillway Release	49.0	49.0	136.0	136.0	226.5	226.5	226.5	226.5	226.5	226.5	453.0
at Date		to		to						to	
(m³/s)		136.0		226.5						453.0	
		@		@						@	
		0800		0800						0800	
		hrs		hrs						hrs	



 $\label{eq:Appendix B}$ Mean Daily Water Temperatures in the Nechako and Nautley Rivers, 2015

	Nechako River			Nautley		N	River	Nautley	
	Cheslatta	Fort	above the	Fort		Cheslatta	Fort	above	Fort
	Falls	Fraser	Stuart River	Fraser		Falls	Fraser	Stuart River	Fraser
Date	(°C)	(°C)	(°C)	(°C)	Date	(°C)	(°C)	(°C)	(°C)
10-Jul	17.3	15.4	20.2	21.7	01-Aug	16.9	16.8	19.0	18.4
11-Jul	17.3	14.6	20.4	21.1	02-Aug	17.1	17.3	18.7	19.6
12-Jul	17.8	13.8	19.9	20.8	03-Aug	17.7	17.8	18.1	18.4
13-Jul	18.0	18.0	19.6	20.6	04-Aug	16.8	17.8	17.4	18.1
14-Jul	17.9	17.4	19.6	20.1	05-Aug	16.7	18.4	17.8	18.1
15-Jul	17.9	18.5	18.5	19.1	06-Aug	16.8	18.3	18.3	18.3
16-Jul	17.7	18.8	18.5	17.9	07-Aug	17.0	17.7	18.3	18.2
17-Jul	17.4	19.6	19.0	17.9	08-Aug	16.8	17.6	18.4	17.8
18-Jul	17.6	19.3	19.8	19.2	09-Aug	16.9	17.1	18.3	18.3
19-Jul	17.6	18.1	20.3	19.6	10-Aug	17.1	17.7	18.6	19.1
20-Jul	17.6	18.1	19.3	19.4	11-Aug	17.2	17.4	19.2	18.9
21-Jul	17.3	18.1	18.3	17.9	12-Aug	17.3	17.6	18.9	18.8
22-Jul	17.3	17.0	18.3	17.7	13-Aug	17.3	17.8	18.8	19.3
23-Jul	17.2	17.2	18.2	17.9	14-Aug	17.4	17.7	18.9	19.2
24-Jul	17.1	17.0	17.7	18.1	15-Aug	17.3	17.9	18.8	19.1
25-Jul	16.9	16.7	17.4	17.3	16-Aug	17.6	18.2	18.5	18.5
26-Jul	17.0	16.3	17.7	17.1	17-Aug	17.6	18.3	18.4	17.8
27-Jul	16.8	16.4	17.7	17.3	18-Aug	17.6	19.0	18.9	18.6
28-Jul	16.7	16.3	18.1	17.3	19-Aug	17.7	19.2	18.9	18.7
29-Jul	16.7	16.9	18.2	17.3	20-Aug	n/a	n/a	18.7	n/a
30-Jul	16.9	16.9	18.2	18.3					
31-Jul	16.8	16.7	18.5	18.4					

APPENDIX C

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2015

Appendix C

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2015

Date	Spillway Release (m³/s)	Cheslatta Falls	At	Nautley River Fort	
Date	Release		37 1 1 6		
Date	(m^3/s)		Vanderhoof	Fraser	
		(m^3/s)	(m^3/s)	(m^3/s)	
_					
10-Jul	49	46.9	90.9	39.4	
11-Jul	49 to 136	45.2	89.4	37.4	
	@ 0800 hrs				
12-Jul	136	46.6	88	36.3	
13-Jul	136 to 226	52.7	85.1	35.9	
	@ 0800 hrs				
14-Jul	226.0	63.8	87.2	34.6	
15-Jul	226.0	79.9	92.0	34.3	
16-Jul	226 to 453	98.8	105.9	33.0	
	@ 1600 hrs				
17-Jul	453.0	120.2	123.1	32.2	
18-Jul	453 to 14.2	172.6	140.1	31.1	
	@ 1600 hrs				
19-Jul	14.2	207.6	177.2	30.7	
20-Jul	14.2 to 170	192.0	222.5	29.9	
	@ 1600 hrs				
21-Jul	170	167.2	222.9	29.3	
22-Jul	170	158.6	202.8	29.3	
23-Jul	170	159.8	191.5	29.1	
24-Jul	170 to 453	160.7	189.4	29.9	
	@ 1600 hrs				
25-Jul	453	168.7	190.0	27.7	
26-Jul	453	205.8	190.0	26.5	
27-Jul	453 to 283	259.7	218.6	26.0	
	@ 1600 hrs				
28-Jul	283	279.9	258.0	25.6	
29-Jul	283	285.3	290.8	25.2	
30-Jul	283	287.4	309.1	24.5	
31-Jul	283	287.9	312.2	24.0	
01-Aug	283	287.6	312.9	23.4	
02-Aug	283	288.5	314.1	22.6	
03-Aug	283	286.2	314.9	22.9	
04-Aug	283 to 14.2	289.1	315.4	21.7	
	@ 1600 hrs				
05-Aug	14.2	283.9	315.3	21.8	
06-Aug	14.2	248.1	312.7	21.3	
07-Aug	14.2 to 170	211.8	289.2	20.5	
	@ 1600 hrs				
08-Aug	170	187.7	254.0	19.8	

Appendix C (continued)

Mean Daily Skins Lake Spillway Releases and Flows in the Nechako and Nautley Rivers, 2015

	Skins Lake	Nechal	ko River	Nautley River
	Spillway	Cheslatta	At	Fort
	Release	Falls	Vanderhoof	Fraser
Date	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)
09-Aug	170 to 453	175.3	224.5	19.6
	@ 1600 hrs			
10-Aug	453	183.7	202.5	18.8
11-Aug	453.0	219.1	198.2	18.3
12-Aug	453 to 283	262.2	224.8	17.9
	@ 1600 hrs			
13-Aug	283	289.1	264.3	17.6
14-Aug	283	289.7	299.9	16.9
15-Aug	283 to 14.2	290.5	312.5	16.5
O	@ 1600 hrs			
16-Aug	14.2	284.2	313.5	17.2
17-Aug	14.2	251.7	312	16.3
18-Aug	14.2	215.9	290.7	16.1
19-Aug	14.2	187.4	255.6	15.9
20-Aug	14.2	157.6	222	15.3

APPENDIX D Recorded and Forecast Meteorological Data

Appendix D Recorded and Forecast Meteorological Data 2015

21.0	656.7	0.0	8.0	14.7	94.0	55.5	15 07 15
21.7	772.5	0.2	8.0	5.3	90.7	31.8	10 07 15
19.8	561.2	0.4	7.4	6.1	90.8	38.3	
17.3	406.3	0.8	10.1	6.7	91.1	64.2	
17.3	717.0	0.2	5.3	8.5	91.6	39.9	
16.3	717.0	0.0	5.1	7.3	91.6	44.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 10/15				
19.6	618.5	0.2	10.7	8.1	90.7	55.3	10 07 15
19.5	585.1	0.5	8.2	5.7	90.8	43.7	11 07 15
16.6	557.4	0.5	10.0	5.8	91.2	67.1	
17.1	530.4	0.7	8.9	6.1	91.5	58.9	
17.1	707.5	0.1	6.1	6.6	91.5	45.3	
15.6	602.3	0.4	4.8	11.1	91.4	45.8	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 11/15				
18.6	337.7	0.3	10.6	17.7	90.8	59.9	11 07 15
16.2	638.6	0.5	11.0	6.3	91.2	73.8	12 07 15
15.3	451.2	0.6	9.6	6.5	91.5	71.2	
15.8	688.3	0.2	6.7	7.4	91.6	54.8	
14.5	401.5	0.6	6.2	9.0	91.6	58.6	
12.2	315.5	0.6	4.7	8.1	91.4	62.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 12/15				
15.3	313.4	0.6	12.7	4.7	91.2	87.4	12 07 15
14.5	566.0	0.7	10.4	6.6	91.5	79.5	13 07 15
14.4	667.3	0.0	6.9	6.9	91.6	62.4	
14.2	487.6	0.5	5.9	9.7	91.4	58.5	
12.7	592.7	0.2	2.3	11.2	91.4	47.6	
12.2	258.1	0.6	4.9	9.5	91.4	63.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 13/15				

15.0	379.1	0.8	10.5	11.6	91.5	77.3	13 07 15
14.4	730.4	0.1	6.5	7.2	91.6	60.3	14 07 15
13.9	593.7	0.4	5.8	10.1	91.4	59.9	
13.0	693.1	0.1	2.3	12.1	91.4	46.9	
16.3	516.3	0.3	5.4	9.7	91.8	45.7	
18.0	659.7	0.1	10.3	4.6	91.9	61.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 14/15				
14.6	413.7	0.8	8.0	11.7	91.6	67.0	14 07 15
13.3	588.9	0.7	7.1	9.2	91.4	69.1	15 07 15
13.1	705.5	0.1	2.4	11.4	91.6	46.2	
16.6	693.1	0.1	5.1	7.1	92.0	42.5	
18.4	678.8	0.0	9.4	5.0	91.9	54.9	
21.1	688.3	0.0	12.7	7.6	91.4	58.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				SI B(IIII)	511(11111)	141(70)	<i>DD</i> 11111 11
LIVINGIVILIV	i Chinibati	014267151 1550	JED 3 CE 13/13				
13.9	463.9	0.8	8.1	17.9	91.4	71.0	15 07 15
13.2	768.6	0.1	2.9	10.4	91.8	48.5	16 07 15
15.7	684.5	0.1	5.1	7.0	92.1	46.9	100713
19.4	669.2	0.1	10.6	6.3	91.9	56.1	
21.1	669.2	0.1	11.4	10.0	91.9	51.6	
17.0	449.3	0.0	11.4	5.8	91.0	71.3	
							DDMMXX
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	I CANADA F	ORECAST ISSU	JED JUL 16/15				
14.3	578.2	0.7	5.7	31.8	91.8	57.2	16 07 15
15.6	676.9	0.3	6.2	7.1	92.2	53.2	17 07 15
19.5	680.7	0.0	11.4	7.4	91.8	59.4	
20.0	707.5	0.0	8.5	7.6	91.5	42.4	
18.0	544.9	0.3	9.1	4.7	91.4	55.2	
12.6	258.1	0.8	10.7	6.6	91.0	90.7	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'			` ′	,	, ,	. ,	
16.6	406.5	0.4	8.6	18.9	92.2	60.2	17 07 15
19.2	770.6	0.0	10.9	8.6	91.8	58.5	18 07 15
	687.4						160713
20.6		0.0	11.3	8.1	91.6	53.8	
17.5	444.6	0.4	12.8	4.3	91.4	76.6	
14.9	430.2	0.6	11.3	5.2	91.0	81.7	
14.6	516.3	0.4	9.2	5.0	91.0	73.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED JUL 18/15				

21.7	567.8	0.3	12.9	29.3	91.8	56.1	18 07 15
19.7	785.9	0.0	9.2	5.7	91.7	47.6	19 07 15
15.8	485.7	0.4	11.7	5.1	91.1	79.7	
12.7	200.8	0.7	6.4	11.4	91.0	68.3	
13.0	334.6	0.8	9.7	5.4	91.0	83.2	
14.8	688.3	0.1	7.7	5.8	91.2	64.6	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'			' '	. ,	, ,	,	
19.7	640.1	0.1	11.0	11.0	91.7	56.4	19 07 15
15.4	525.8	0.4	11.2	5.4	91.1	78.7	20 07 15
12.7	320.3	0.5	6.5	9.7	91.1	69.2	20 07 13
13.9	415.9	0.8	6.4	8.5	90.9	62.5	
12.9	516.3	0.3	4.5	8.2	91.0	57.7	
13.1	305.9	0.7	8.0	5.9	91.3	74.8	
ATEMP(C)	RAD(LY)	CC(TTHS)		SPD(KH)	SPR(KPA)	74.8 RH(%)	DD MM YY
ENVIRONMEN			DPT(C)	SPD(KII)	SPK(KPA)	KH(70)	DD MINI I I
ENVIRONMEN	I CANADA F	ORECAST ISS	UED JUL 20/13				
15.0	4167	0.4	0.5	15.0	01.1	(0.6	20.07.15
15.8	416.7	0.4	9.5	15.8	91.1	68.6	20 07 15
13.3	455.1	0.4	5.6	11.2	91.1	61.6	21 07 15
13.6	371.8	0.7	7.8	7.7	91.0	71.1	
14.0	492.4	0.4	4.7	8.4	91.1	53.4	
13.3	439.8	0.5	6.5	6.2	91.2	65.8	
12.7	535.4	0.3	4.6	4.3	91.4	59.5	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISS	UED JUL 21/15				
13.8	316.7	0.4	7.6	20.7	91.1	69.4	21 07 15
14.4	520.1	0.7	7.2	7.7	90.9	63.7	22 07 15
14.7	588.9	0.3	5.9	7.6	91.1	55.8	
13.1	372.9	0.6	8.2	6.3	91.1	75.5	
11.8	535.4	0.3	3.2	7.2	91.3	57.3	
12.6	525.9	0.4	4.4	6.0	91.4	58.8	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	, ,	` ′	` ′	` /	,	. ,	
15.7	421.9	0.7	8.4	24.2	90.9	63.8	22 07 15
14.2	669.2	0.3	5.2	7.6	91.1	54.8	23 07 15
12.3	296.4	0.7	8.9	4.9	91.0	82.8	25 07 15
11.4	468.5	0.7	5.7	5.0	91.0	71.9	
11.4	659.7	0.3	4.8	7.2	91.2 91.4	63.2	
13.4	659.7	0.1	4.8 5.1	7.2	91.4	58.7	
							DD MM VA
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	I CANADA F	OKECASI ISSI	UED JUL 23/13				

13.5	338.4	0.4	7.8	8.5	91.1	71.4	23 07 15
14.2	669.2	0.3	5.2	7.6	91.1	54.8	24 07 15
12.3	296.4	0.7	8.9	4.9	91.0	82.8	
11.4	468.5	0.5	5.7	5.0	91.2	71.9	
12.1	659.7	0.1	4.8	7.2	91.4	63.2	
13.4	659.7	0.1	5.1	7.7	91.8	58.7	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	, ,			,	,	()	
ZI (/II COI (I/IZI (. 0.1 15.1.1	0122011011000	325 v 32 2 ., 10				
12.9	281.2	0.7	8.2	12.0	91.1	76.5	24 07 15
10.9		0.7	6.5	5.8			
	441.7				91.3	78.2	25 07 15
11.1	619.5	0.1	5.1	5.5	91.5	70.2	
13.0	640.5	0.1	6.3	6.8	91.7	66.6	
14.3	382.4	0.6	7.1	8.3	91.9	63.6	
13.8	468.5	0.6	7.7	7.5	92.0	69.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	Γ CANADA F	ORECAST ISSU	JED JUL 25/15				
11.9	339.5	0.7	6.3	10.4	91.3	72.1	25 07 15
11.9	707.5	0.0	4.2	6.4	91.4	61.9	26 07 15
13.3	602.3	0.2	6.0	7.9	91.7	63.6	
14.3	401.5	0.5	7.1	8.9	92.0	63.9	
13.7	439.8	0.6	7.7	8.5	92.0	70.3	
13.7	631.0	0.1	5.1	7.2	92.1	57.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,		` ′	SI D(IXII)	SI K(KI II)	K(1(70)	DD WIWI II
EN VIRONVIEN	CANADAT	OKECAST ISSU	JED JOL 20/13				
11.8	413.8	0.5	6.8	12.6	01.4	75.1	26 07 15
					91.4		26 07 15
12.8	604.2	0.2	6.1	7.8	91.7	66.6	27 07 15
14.9	552.6	0.3	6.9	9.2	92.0	59.9	
13.9	611.9	0.4	7.4	7.7	92.0	67.4	
14.2	573.6	0.3	7.3	4.9	92.1	65.3	
15.6	506.7	0.5	10.2	4.5	92.1	73.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	Γ CANADA F	ORECAST ISSU	JED JUL 27/15				
14.0	341.4	0.5	7.8	15.3	91.7	69.1	27 07 15
14.5	579.4	0.4	6.5	9.5	92.0	60.2	28 07 15
13.7	615.7	0.4	7.4	8.3	92.0	68.6	
14.9	497.1	0.5	7.6	5.2	92.1	63.4	
16.1	449.3	0.5	10.6	4.4	91.9	72.5	
15.7	430.2	0.7	7.4	5.2	91.6	58.8	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				J. 2 (1111)	~(111.11)	141(70)	
			UCL 20, 13				

111	25.6	0.5	2.2	15.1	00.0	60.0	20.07.15
14.4	376.6	0.5	8.2	17.1	92.0	68.9	28 07 15
13.8	726.6	0.3	7.1	8.6	92.1	66.4	29 07 15
15.3	544.9	0.3	8.3	4.8	92.1	64.7	
15.6	305.9	0.8	9.8	4.5	91.9	71.1	
14.3	544.9	0.3	9.0	5.4	91.8	73.8	
12.1	162.5	0.9	9.0	5.1	91.5	84.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	Γ CANADA F	ORECAST ISSU	JED JUL 29/15				
14.9	390.4	0.3	7.6	17.3	92.1	63.5	29 07 15
14.7	671.1	0.2	7.9	4.4	92.2	65.9	30 07 15
14.9	261.0	0.8	9.7	4.8	92.0	73.8	
14.4	444.6	0.6	11.0	4.5	91.8	83.3	
13.9	239.0	0.7	11.3	4.1	91.5	87.2	
11.9	286.8	0.7	9.6	4.9	91.5	88.3	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				SI B(IXII)	SI I(III II)	141(70)	DD MINI II
LIVINGIVILIV	i Canada i	ORLEATED ISSU	JED 30E 30/13				
14.3	457.8	0.3	8.1	3.5	92.2	69.0	30 07 15
16.1	485.7	0.7	8.3	5.1	92.0	61.2	31 07 15
15.9	623.3	0.7	9.9	4.7	92.0	69.6	31 07 13
16.5	478.0	0.5	9.9	4.1	91.6	66.8	
17.7	621.4	0.0	11.1	5.0	91.6	67.1	
18.8	401.5	0.4	11.2	6.9	91.6	62.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	Γ CANADA F	ORECAST ISSU	JED JUL 31/15				
14.6	294.4	0.3	9.2	8.0	92.0	72.8	31 07 15
16.1	485.7	0.7	8.3	5.1	92.0	61.2	01 08 15
15.9	623.3	0.3	9.9	4.7	91.8	69.6	
16.5	478.0	0.5	9.9	4.1	91.6	66.8	
17.7	621.4	0.0	11.1	5.0	91.6	67.1	
18.8	401.5	0.4	11.2	6.9	91.6	62.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	Γ CANADA F	ORECAST ISSU	JED AUG 01/1:	5			
15.1	558.4	0.3	9.1	8.0	92.0	69.8	01 08 15
16.1	485.7	0.7	8.3	5.1	92.0	61.2	02 08 15
15.9	623.3	0.3	9.9	4.7	91.8	69.6	
16.5	478.0	0.5	9.9	4.1	91.6	66.8	
17.7	621.4	0.0	11.1	5.0	91.6	67.1	
18.8	401.5	0.4	11.2	6.9	91.6	62.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'				, ,	()	(.3)	

15.8	459.0	0.7	9.3	6.9	92.0	67.3	02 09 15
16.1	485.7	0.7	8.3	5.1	92.0	61.2	03 09 15
15.9	623.3	0.3	9.9	4.7	91.8	69.6	
16.5	478.0	0.5	9.9	4.1	91.6	66.8	
17.7	621.4	0.0	11.1	5.0	91.6	67.1	
18.8	401.5	0.4	11.2	6.9	91.6	62.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,				SI K(KI II)	K(1(70)	DD WIWI II
ENVIRONVIEN	I CANADA I	OKECASI ISSU	JED AUGUS/ I	3			
13.2	234.7	0.6	9.5	11.1	92.0	81.4	03 09 15
12.2	516.3	0.3	6.2	5.6	91.5	70.1	04 09 15
13.5	387.2	0.6	8.9	4.9	91.5	77.3	
16.2	463.7	0.5	9.4	5.6	91.4	66.0	
15.8	439.8	0.3	7.8	7.5	91.4	60.3	
15.7	372.9	0.4	10.2	3.6	91.3	72.7	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				` ′	,	. ,	
10.8	422.6	0.4	7.4	9.3	91.5	83.1	04 09 15
13.5	619.5	0.2	8.0	5.7	91.5	72.6	15 09 15
15.3	613.8	0.2	7.6	7.3	91.5	62.3	13 09 13
15.0	272.5	0.6	8.6	7.4	91.4	68.4	
14.0	358.5	0.5	11.3	4.3	91.3	86.6	
14.7	439.8	0.6	11.5	4.8	91.3	84.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	Γ CANADA F	ORECAST ISSU	JED AUG 15/1	5			
13.3	383.9	0.4	9.5	10.4	91.5	81.1	15 09 15
15.0	676.9	0.1	8.5	6.5	91.4	67.5	06 09 15
15.9	475.1	0.4	9.9	5.8	91.3	70.1	
14.8	358.5	0.5	12.3	3.2	91.0	87.6	
14.9	334.6	0.8	12.7	4.5	91.2	88.9	
13.8	506.7	0.4	10.4	5.5	91.2	83.0	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,		, ,	` ′	SI K(KI A)	K11(70)	DD WIWI I I
ENVIRONMEN	I CANADA F	OKECASI ISSU	JED AUGUO/I	3			
15.0	511.2	0.5	0.4	15.2	01.4	(0.0	06.00.15
15.8	511.3	0.5	9.4	15.3	91.4	68.0	06 09 15
15.7	499.0	0.6	10.4	5.7	91.3	73.6	07 09 15
15.0	390.1	0.6	11.8	4.7	91.1	84.1	
14.3	363.3	0.7	12.8	4.5	91.3	92.6	
12.8	286.8	0.6	11.3	4.0	91.4	92.4	
13.1	239.0	0.8	11.5	4.1	91.3	92.1	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	Γ CANADA F	ORECAST ISSU	JED AUG 07/1	5			

16.1	357.8	0.4	11.2	9.2	91.3	75.7	07 08 15
14.3	422.6	0.4	11.9	3.8	91.2	88.4	08 08 15
14.8	361.4	0.7	12.6	4.1	91.3	89.3	
15.4	592.7	0.1	10.4	4.7	91.6	75.4	
15.4	468.5	0.2	9.2	5.9	91.7	68.7	
16.8	564.1	0.1	9.8	4.8	91.7	64.6	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	, ,				SI K(KI A)	K11(70)	DD WIWI I I
ENVIRONMEN	I CANADA F	ORECASI ISSU	JED AUG 13/1	3			
12.9	188.0	0.6	10.9	4.5	91.2	90.1	08 08 15
15.5	529.6	0.5	12.4	4.2	91.3	84.2	09 08 15
15.8	612.8	0.0	10.1	4.9	91.6	71.6	
15.0	291.6	0.4	8.9	5.6	91.6	69.5	
16.9	535.4	0.3	9.5	5.8	91.6	62.9	
15.3	372.9	0.4	9.9	4.7	91.5	73.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT				` ′	211(111)	(, *)	
LIVINGIVINE	· CHINIBHI	01667101 1000) LD 110 G 15, 1				
15.0	388.5	0.4	12.1	7.8	91.3	85.3	09 08 15
15.6	667.3	0.1	9.1	5.1	91.6	67.2	10 08 15
16.7	479.9	0.5	8.6	6.9	91.6	59.4	
18.0	592.7	0.1	8.6	5.3	91.6	53.1	
15.6	315.5	0.5	10.4	4.2	91.5	74.0	
14.0	535.4	0.5	7.0	6.4	91.5	64.9	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	Γ CANADA F	ORECAST ISSU	JED AUG 10/1	5			
15.3	423.8	0.3	10.3	4.6	91.6	75.3	10 08 15
15.8	485.7	0.4	8.4	6.7	91.7	62.9	11 08 15
17.0	408.2	0.4	9.3	5.9	91.6	61.8	
16.4	301.2	0.6	10.6	4.8	91.6	71.3	
13.6	602.3	0.0	6.2	5.0	91.8	62.6	
14.2	583.2	0.0	6.6	4.5	92.0	62.1	
							DD 1414177
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT	I CANADA F	ORECAST ISSU	JED AUG 11/1	5			
14.4	293.1	0.3	9.7	8.0	91.7	76.4	11 08 15
16.8	357.6	0.7	9.2	5.6	91.7	62.4	12 08 15
16.7	445.5	0.5	10.9	5.1	91.6	71.0	
14.2	573.6	0.1	6.4	5.0	91.8	61.3	
13.3	411.1	0.3	6.4	5.9	92.0	65.6	
13.1	420.7	0.3	7.6	4.7	92.1	72.4	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMENT					()	==(, 3)	
				-			

16.4 323.5 0.3 11.1 7.2 91.7 73.4 12.0 815 17.4 613.8 0.4 8.7 7.2 91.6 56.6 13.0 815 14.8 660.4 0.0 6.6 5.1 91.7 58.6 14.5 583.2 0.0 6.5 6.0 91.8 59.8 13.0 229.5 0.5 9.1 3.9 92.0 80.4 12.8 430.2 0.4 9.2 4.7 91.9 82.0 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 13/15 17.4 497.7 0.4 10.3 12.9 91.6 64.5 13.0 815 14.3 594.7 0.3 6.3 4.8 91.8 60.2 14.0 815 13.9 590.8 0.0 5.6 6.5 92.0 53.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 17.3 267.7 0.6 9.8 31.5 91.6 62.8 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14.0 815 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1 7.6 7.2 92.0 63.4 17.9 588.8 0.1								
14.8 600.4 0.0 6.6 5.1 91.7 58.6 14.5 583.2 0.0 6.5 6.0 91.8 59.8 12.8 430.2 0.4 9.2 4.7 91.9 82.0 ATEMP(C) RADILY) CCITHIS DPT(C) SPD(KH) SPR(KPA) R14% DD MM YY FINVIRONMENT CANADA FORECAST ISSUED AUG 13/15 17.4 497.7 0.4 10.3 12.9 91.6 64.5 13.08 15 14.3 594.7 0.3 6.3 4.8 91.8 60.2 14.08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMP(C) RADILY) CCITHIS DPT(C) SPD(KH) SPR(KPA) R14% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.1 413.0 0.2 6.6 6.0 91.8 66.1 14.08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 57.3 15.08 15 13.1 413.0 0.2 6.6 6.5 92.0 61.5 14.4 454.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RADILY) CCITTHS DPT(C) SPD(KH) SPR(KPA) R14% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RADILY) CCITTHS DPT(C) SPD(KH) SPR(KPA) R14% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15.08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16.08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 61.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 61.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RADILY CCITTHS DPT(C) SPD(KH) SPR(KPA) R14% DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.	16.4	323.5	0.3	11.1	7.2	91.7	73.4	12 08 15
14.5	17.4	613.8	0.4	8.7	7.2	91.6	56.6	13 08 15
14.5	14.8	600.4	0.0	6.6	5.1	91.7	58.6	
13.0								
12.8								
ATEMPIC RADILY CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 13/15 17.4 497.7 0.4 10.3 12.9 91.6 64.5 13 08 15 14.3 594.7 0.3 6.3 4.8 91.8 60.2 14 08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMPIC RADILY CC(TTHIS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPIC RADILY CC(TTHIS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.4 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPIC RADILY CC(TTHIS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 6.3 40.4 17.9 511.5 0.1 8.9 8.2 92.0 63.4 17.9 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.0 17.0 17.0 15.1 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17								
TATEMPIC RADIA FORECAST ISSUED AUG 13/15 13/16 64.5 13 08 15 14.3 594.7 0.3 6.3 4.8 91.8 60.2 14 08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 14.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 14.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 14.6 14.6 15.1 13.1 14.1 13.0 0.2 6.6 6.0 91.8 66.1 14.0 15.1 13.1 413.0 0.2 6.6 6.5 5.2 2.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 42.4 10.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 42.4 10.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 42.4 10.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 42.4 10.4 10.5 8.9 92.0 61.5 12.8								DD MM VV
17.4						SPK(KPA)	Kn(%)	DD MM 11
14.3 594.7 0.3 6.3 4.8 91.8 60.2 14 08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 66.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.6 648.2 0.1 5.1 6.4 92.1 57.3 15 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.9 6.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY	ENVIRONMEN.	I CANADA F	ORECAST ISSU	JED AUG 13/1	5			
14.3 594.7 0.3 6.3 4.8 91.8 60.2 14 08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 66.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.6 648.2 0.1 5.1 6.4 92.1 57.3 15 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.9 6.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY								
14.3 594.7 0.3 6.3 4.8 91.8 60.2 14 08 15 13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 66.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.6 648.2 0.1 5.1 6.4 92.1 57.3 15 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 57.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.7 2.9 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 6.1 6.9 5.2 91.1 53.2 ATEMPICO RADILY CCITTIS DPTICO SPDIKH SPRIKPA RH(%) DD MM YY								
13.9 590.8 0.0 5.6 6.5 92.0 58.1 12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 17.3 267.7 0.6 9.8 13.5 91.6 62.8 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RIH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.6 648.2 0.1 5.1 6.4 92.1 57.3 15 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RIH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPIC RADILY CCITTIS DPTIC SPD(KH) SPR(KPA) RIH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16.0 17.08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3	17.4	497.7	0.4	10.3	12.9	91.6	64.5	13 08 15
12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 ATEMPICO RADILY) CCUTTHS) DPTICO SPDIKH SPR(KPA) RH(%) DD MM YY	14.3	594.7	0.3	6.3	4.8	91.8	60.2	14 08 15
12.7 344.2 0.4 7.0 5.9 92.1 71.6 14.4 535.4 0.3 7.5 7.0 92.1 65.6 ATEMPICO RADILY) CCUTTHS) DPTICO SPDIKH SPR(KPA) RH(%) DD MM YY	13.9	590.8	0.0	5.6	6.5	92.0	58.1	
14.4								
17.3								
ATEMPIC) RADILY) CCITTHS) DPTIC) SPDIKH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3 496.8 0.2 6.6 6.0 91.8 66.1 14 08 15 13.6 648.2 0.1 5.1 6.4 92.1 57.3 15 08 15 13.1 413.0 0.2 6.6 5.5 92.2 67.5 14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMPIC) RADILY CCITTHS) DPTIC) SPDIKH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPIC) RADILY CCITTHS) DPTIC) SPDIKH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17.0 81.5 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17.0 81.5 14.9 56.8 8 0.1 7.6 7.2 92.0 63.4 13.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMPIC) RADILY CCITTHS) DPTIC) SPDIKH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17.08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.0 17.0 15.1 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17								
ENVIRONMENT CANADA FORECAST ISSUED AUG 14/15 13.3								DD MM VV
13.3					` /	SPK(KPA)	KH(%)	DD MM YY
13.6	ENVIRONMEN.	I CANADA F	ORECAST ISSU	JED AUG 14/1	5			
13.6								
13.6								
13.1	13.3	496.8	0.2	6.6	6.0	91.8	66.1	14 08 15
14.4 454.1 0.3 6.9 6.6 92.1 62.9 18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY 14.7 367.7 <td< td=""><td>13.6</td><td>648.2</td><td>0.1</td><td>5.1</td><td>6.4</td><td>92.1</td><td>57.3</td><td>15 08 15</td></td<>	13.6	648.2	0.1	5.1	6.4	92.1	57.3	15 08 15
18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 11.5 92.2 69.2 16.08 15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16.08 15 13.9 5	13.1	413.0	0.2	6.6	5.5	92.2	67.5	
18.2 492.4 0.4 10.5 8.9 92.0 61.5 17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 11.5 92.2 69.2 16.08 15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16.08 15 13.9 5	14.4	454.1	0.3	6.9	6.6	92.1	62.9	
17.4 564.1 0.0 5.9 12.9 91.7 42.4 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY RAD(LY) RH(%) DD MM YY RAD(LY) RAD(LY) RH(M) RH(M) RH(M) RH(M) RH(M) RH(
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5 495.4 0.1 6.8 4.5 92.1 66.6 15 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 14.3 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 11.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 11.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
ENVIRONMENT CANADA FORECAST ISSUED AUG 15/15 13.5								DD MM VV
13.5	* /	, ,		, ,	` ′	SFK(KFA)	KII(/0)	DD MINI I I
13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	ENVIRONMEN.	I CANADA F	ORECAST ISSU	JED AUG 15/1	3			
13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 36.7 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(
13.9 554.5 0.2 6.1 5.7 92.2 61.0 16 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 36.7 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(
14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C)		495.4				92.1		
17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	13.9	554.5	0.2	6.1	5.7	92.2	61.0	16 08 15
17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 TOTAL 40.2 8.5 12.8 92.2 69.2 16.08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17.08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	14.9	568.8	0.1	7.6	7.2	92.0	63.4	
14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15	17.9	511.5	0.1	8.9	8.2	92.0	55.0	
14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15	17.5	573.6	0.0	5.6	11.6	91.5	40.3	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
ENVIRONMENT CANADA FORECAST ISSUED AUG 16/15 14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								DD MM YY
14.7 367.7 0.2 8.5 12.8 92.2 69.2 16 08 15 13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY						SI Id(III II)	141(70)	<i>DD</i> 11111 1 1
13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	LIVIROIVILIV	CANADAT	OKLEAST ISSU	LD AUG 10/1	3			
13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
13.9 554.5 0.2 6.1 5.7 92.2 61.0 17 08 15 14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	14.5	267.7	0.2	0.5	12.0	02.2	60.2	160015
14.9 568.8 0.1 7.6 7.2 92.0 63.4 17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
17.9 511.5 0.1 8.9 8.2 92.0 55.0 17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								17 08 15
17.5 573.6 0.0 5.6 11.6 91.5 40.3 14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY								
14.3 372.9 0.5 4.9 5.2 91.1 53.2 ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	17.9	511.5	0.1	8.9	8.2	92.0	55.0	
ATEMP(C) RAD(LY) CC(TTHS) DPT(C) SPD(KH) SPR(KPA) RH(%) DD MM YY	17.5	573.6	0.0	5.6	11.6	91.5	40.3	
	14.3	372.9	0.5	4.9	5.2	91.1	53.2	
	ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY

14.1	413.8	0.7	8.2	12.2	92.2	70.9	17 08 15
13.9	554.5	0.2	6.1	5.7	92.2	61.0	18 08 15
14.9	568.8	0.1	7.6	7.2	92.0	63.4	
17.9	511.5	0.1	8.9	8.2	92.0	55.0	
17.5	573.6	0.0	5.6	11.6	91.5	40.3	
14.3	372.9	0.5	4.9	5.2	91.1	53.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN	T CANADA F	ORECAST ISSU	JED AUG 18/1	5			
18.8	508.3	0.3	10.4	19.8	92.2	58.3	18 08 15
13.9	554.5	0.2	6.1	5.7	92.2	61.0	19 08 15
14.9	568.8	0.1	7.6	7.2	92.0	63.4	
17.9	511.5	0.1	8.9	8.2	92.0	55.0	
17.5	573.6	0.0	5.6	11.6	91.5	40.3	
14.3	372.9	0.5	4.9	5.2	91.1	53.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	T CANADA F	ORECAST ISSU	JED AUG 19/1	5	, ,		
18.8	507.7	0.3	8.7	23.4	92.2	49.8	19 08 15
13.9	554.5	0.2	6.1	5.7	92.2	61.0	20 08 15
14.9	568.8	0.1	7.6	7.2	92.0	63.4	
17.9	511.5	0.1	8.9	8.2	92.0	55.0	
17.5	573.6	0.0	5.6	11.6	91.5	40.3	
14.3	372.9	0.5	4.9	5.2	91.1	53.2	
ATEMP(C)	RAD(LY)	CC(TTHS)	DPT(C)	SPD(KH)	SPR(KPA)	RH(%)	DD MM YY
ENVIRONMEN'	` ′	` ′	` ′	` ′	, ,		

APPENDIX E Summer Water Temperature and Flow Management Project Reservoir Release Volume Calculations for July 10 to August 20, 2015

$\label{thm:permitted} Appendix \, E$ Summer Water Temperature and Flow Management Project Reservoir Release Volume Calculations for July 10 to August 20, 2015

Skins Lake Spillway base release for the period July 10 (191) to August 20 (232) = $49.0 \text{ m}^3/\text{s}$ Summer Water Temperature and Flow Management Project Base Release Volume = (JD 231 - JD 191) * 49.0 + (JD 232 - JD 231) * $14.16 = 1,974.2 \text{ m}^3/\text{s} * \text{days}$

Time period (Julian Day)		Time (hrs)		
July 10 (191) @ 2400 hrs to July 13 (194) @ 1600 hrs		88.0	150.0	13,200
July 13 (194) @ 1600 hrs to July 16 (197) @ 1600 hrs		72.0	200.0	14,400
July 16 (197) @ 1600 hrs to July 18 (199) @ 1600 hrs		48.0	453.0	21,744
July 18 (199) @ 1600 hrs to July 20 (201) @ 1600 hrs		48.0	283.0	13,584
July 20 (201) @ 1600 hrs to July 22 (203) @ 1600 hrs		48.0	14.2	682
July 22 (203) @ 1600 hrs to July 30 (211) @ 1600 hrs		192.0	170.0	32,640
July 30 (211) @ 1400 hrs to August 3 (215) @ 1600 hrs		96.0	200.0	19,200
August 3 (215) @ 1600 hrs to August 5 (217) @ 1600 hrs		48.0	453.0	21,744
August 5 (217) @ 1600 hrs to August 7 (219) @ 1600 hrs		48.0	14.2	682
August 7 (219) @ 1600 hrs to August 13 (225) @ 1600 hrs		144.0	170.0	24,480
August 13 (225) @ 1600 hrs to August 19 (231) @ 1600 hrs		144.0	200.0	28,800
August 19 (231) @ 1600 hrs to August 20 (232) @ 2400 hrs		32.0	15.0	480
	Total	1,008 (42.0 days)	<u> </u>	191,635
Total Release Volume		= 191,635 m ³ /s = 7,984.8 m ³ /s = 281,983 cfs	s*days	
Volume Released for Cooling Purposes		= Total Volum = 7,984.8 - 1,9 = 6,010.6 m ³ /s = 212,266 cfs	s*days	,
Average Release over Summer Management Period (July 10 to August 20)		= $7,984.8 \text{ m}^3/\text{s}$ = $190.1 \text{ m}^3/\text{s}$ = $6,713.9 \text{ cfs}$	s*days / 42 days	