RioTinto

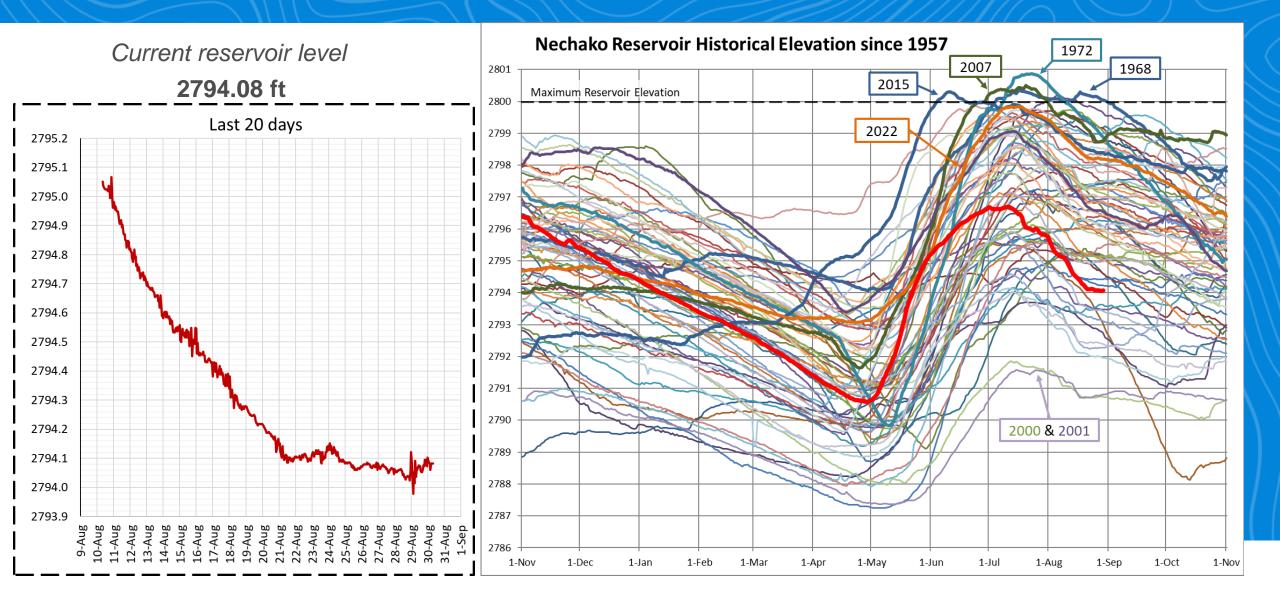
Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

30 August 2023

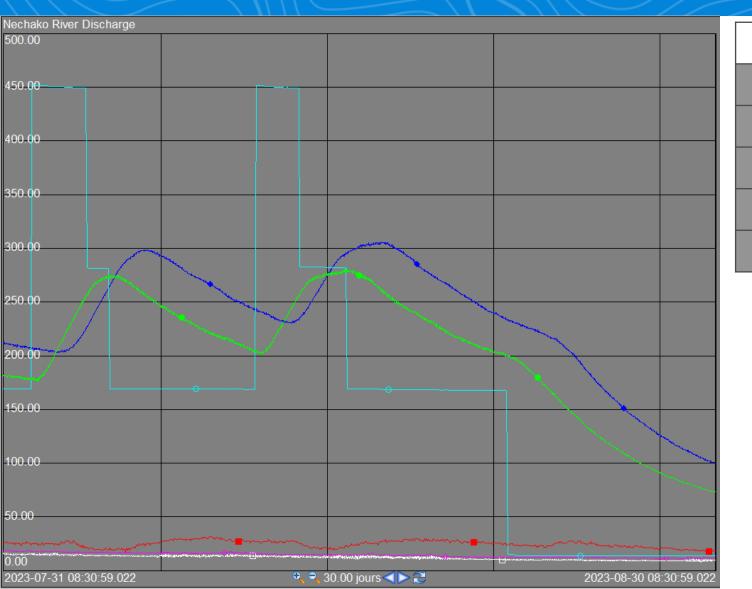
Prepared by Andrew Czornohalan & Simon Matte



Reservoir Elevation - Last 20 days

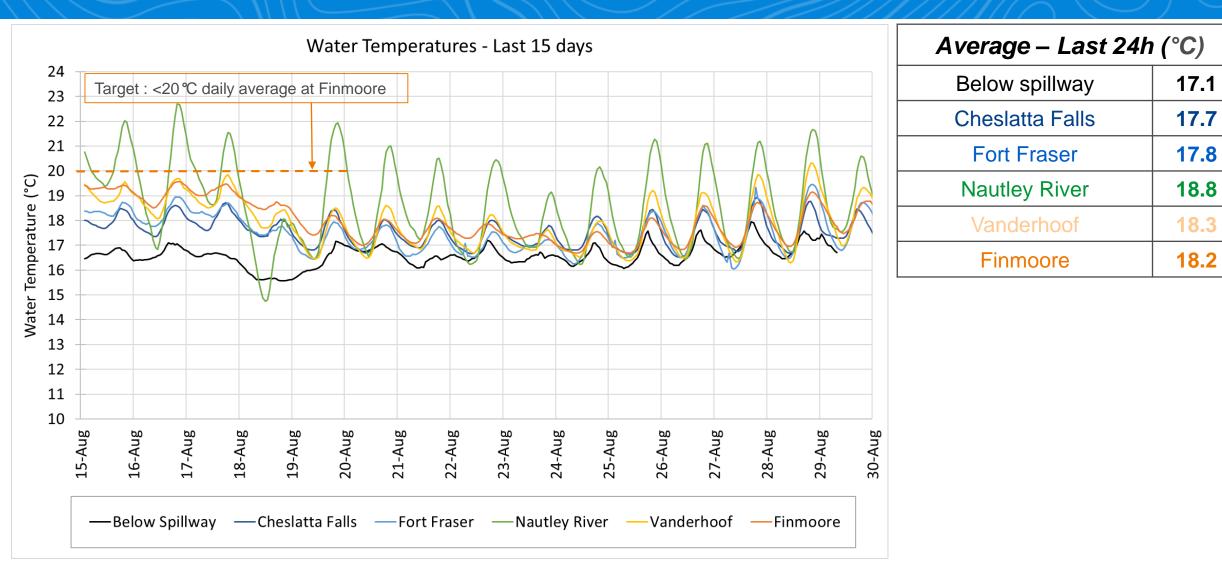


Flows - Last 30 days

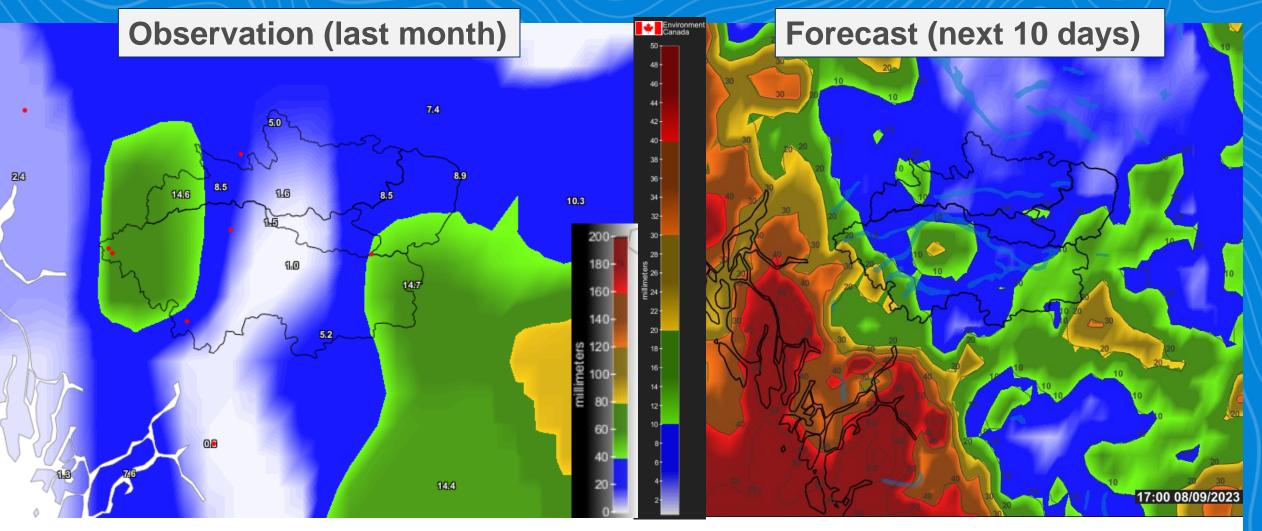


Current values (m³/s)									
101									
14									
74									
12									
10									

Observed Water Temperatures – Last 15 days



Past & Future cumulative precipitation



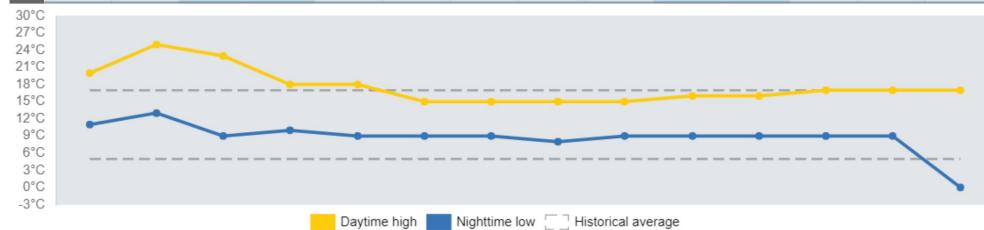
Nechako Reservoir watershed area-average = 18 mm

Nechako Reservoir watershed area-average = 5-20 mm

Weather Forecast

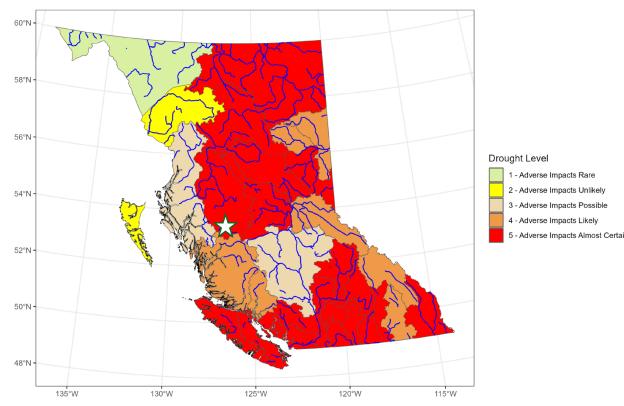
Marilla Weather

	Full 14 Days Overview Aug 31 - Sep 13													
	Thu 08/31	Fri 09/01	Sat ^{09/02}	Sun 09/03	Mon 09/04	Tue 09/05	Wed 09/06	Thu 09/07	Fri 09/08	Sat ^{09/09}	Sun ^{09/10}	Mon ^{09/11}	Tue 09/12	Wed 09/13
Day	20°	25°	23°	18°	18°	15°	15°	<mark>15</mark> °	15°	16°	16°	17°	17°	17°
POP	30 %	10 %	20 %	30 %	30 %	30 %	60 %	20 %	20 %	20 %	20 %	20 %	10 %	10 %
	C	C	R.	¢	ക	¢	R.	C	R.	R.	R.	C	C	C
Night	11°	13°	<u>9</u> °	10°	<mark>9</mark> °	<mark>9</mark> °	9°	8°	<u>9</u> °	9°	9°	9°	<u>9</u> °	0°
POP	10 %	10 %	20 %	30 %	30 %	40 %	20 %	20 %	20 %	10 %	20 %	10 %	10 %	0 %

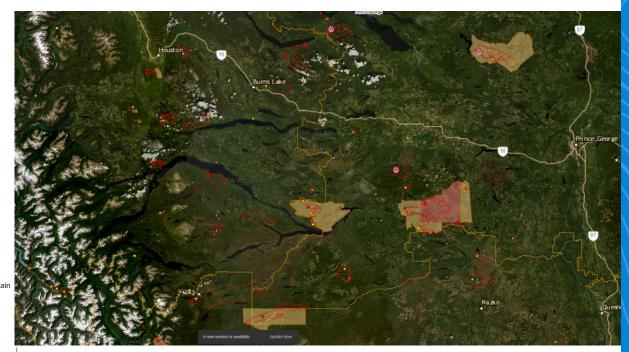


Provincial Advisories - Drought

Last updated : Aug. 24th Drought Level 5 : Adverse Impacts Almost Certain



Source: British Columbia Drought Information Portal Water Management Branch – Ministry of Forests



🛞 Wildfire of Note

A wildfire that is highly visible or poses a potential threat to public safety.

Out of Control

A wildfire that is continuing to spread and is not responding to suppression efforts.

😑 Being Held

A wildfire that is not likely to spread beyond predetermined boundaries under current conditions.

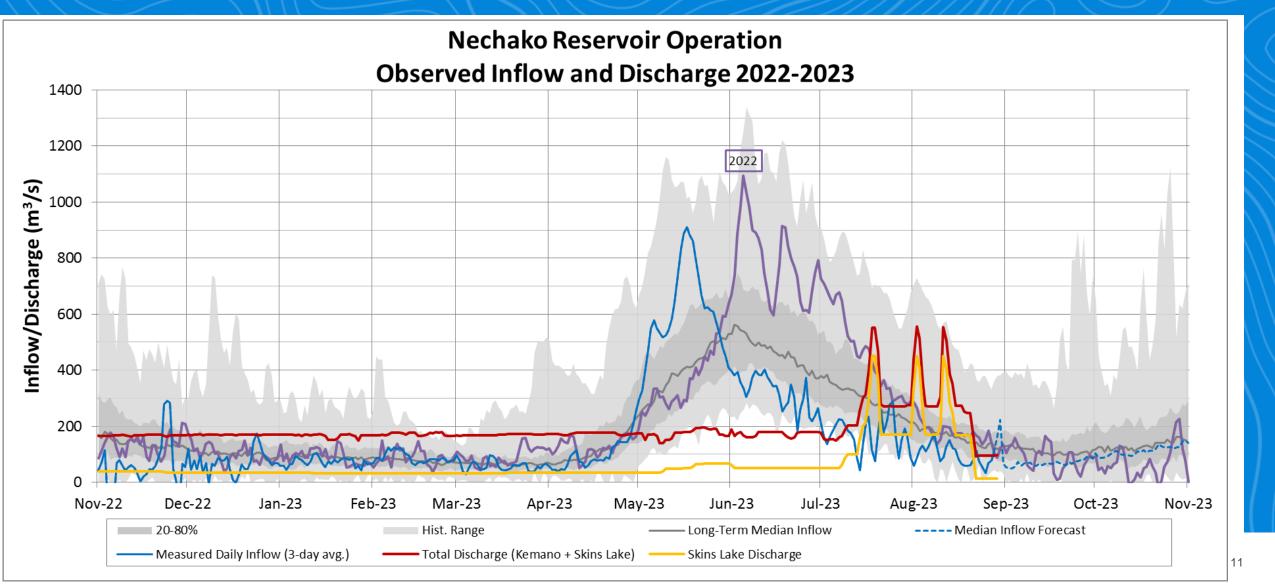
O Under Control

A wildfire that will not spread any further due to suppression efforts.

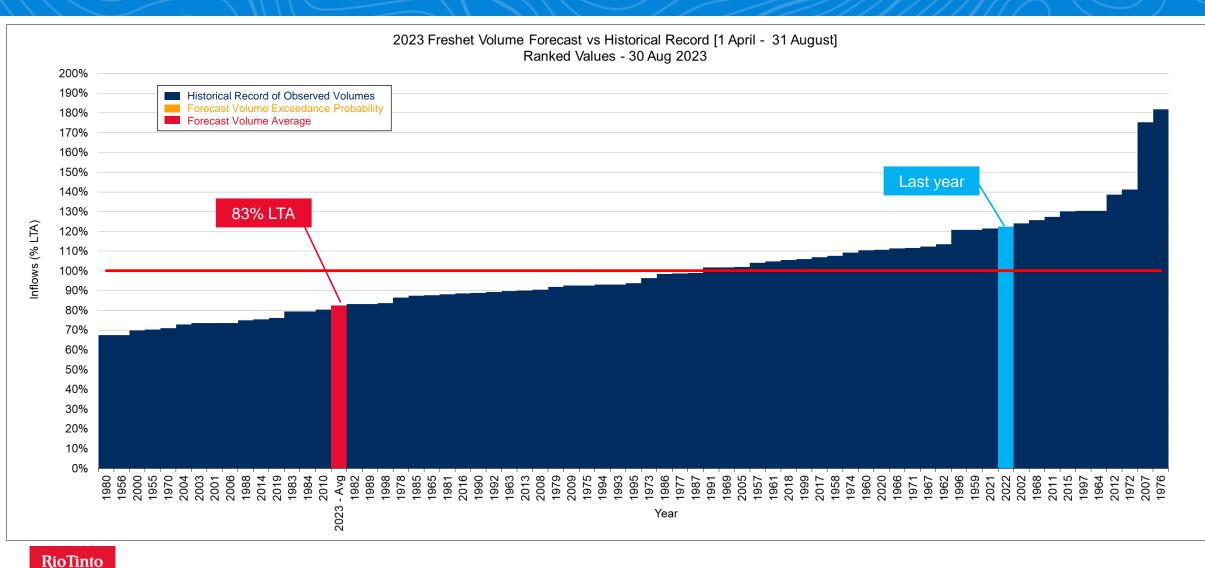
Out

A wildfire that is extinguished. Suppression efforts are complete.

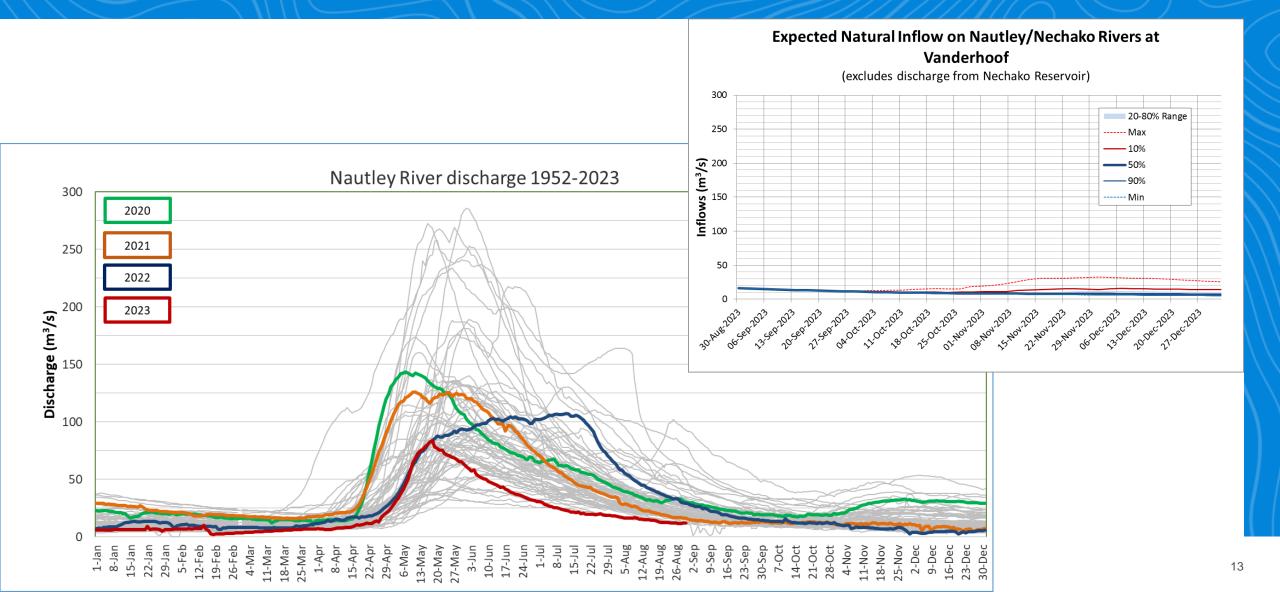
Observed Inflows & Discharge vs Historical



Spring Freshet Inflow Volume

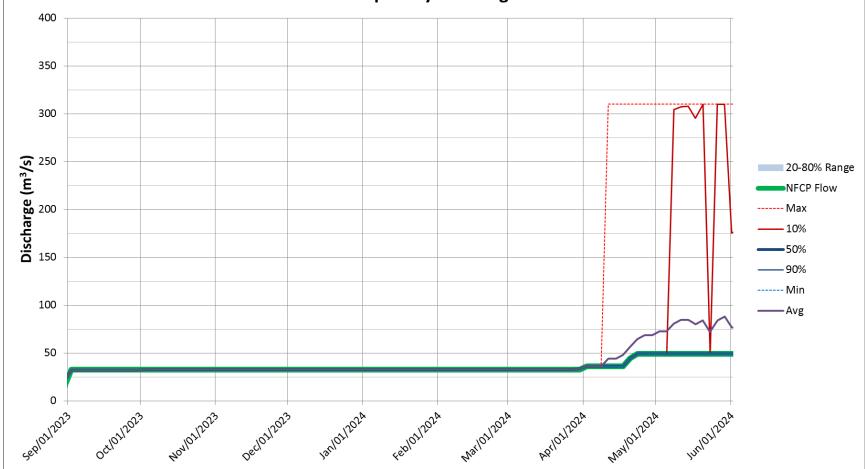


Nautley River Flows, Forecast



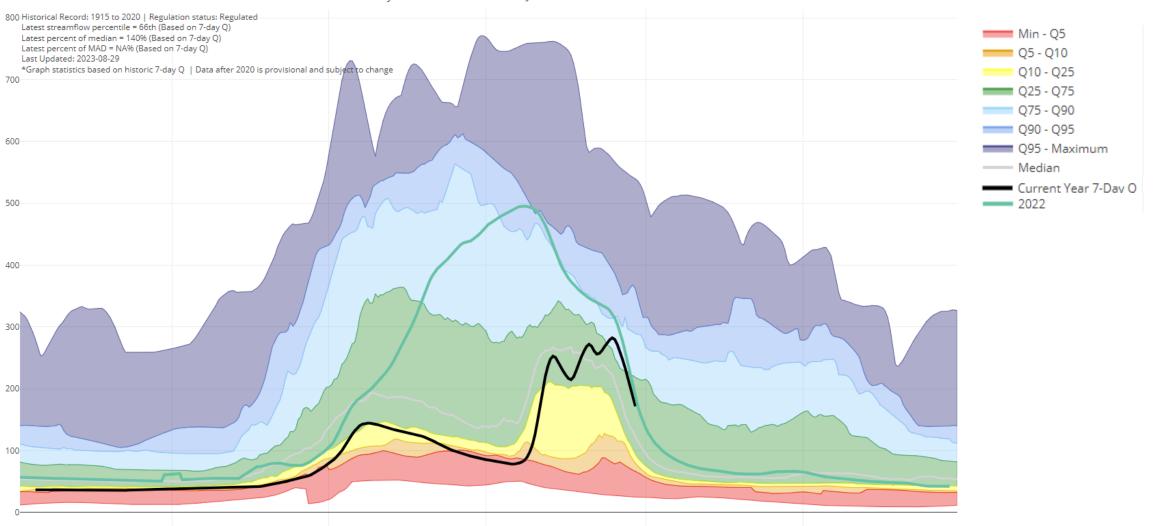
Skins Lake Spillway Release - Forecast

- Current release = 14 m³/s
 Annual maintenance work
- Expected next gate change: August 31st @ 6pm = 32 m³/s



Skins Lake Spillway Discharge Forecast

Vanderhoof



Seven Day Mean Streamflow for 08JC001 NECHAKO RIVER AT VANDERHOOF

01-January

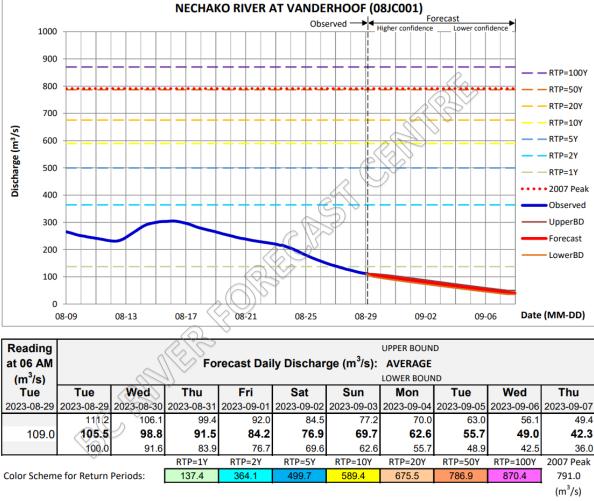
01-May

01-March

01-July

Forecast – Vanderhoof

Expected Total Discharge at Vanderhoof 650 600 (s/ 550 m 500 20-80% Range ----- Max ·10% 50% 90% Vanderhoof 250 ----- Min 200 150 100 50 0 01.1401/2023 01-101-2023 01-May 2023 01-14/1023 01-14/2023 01-5ep 2023 01-04-2023

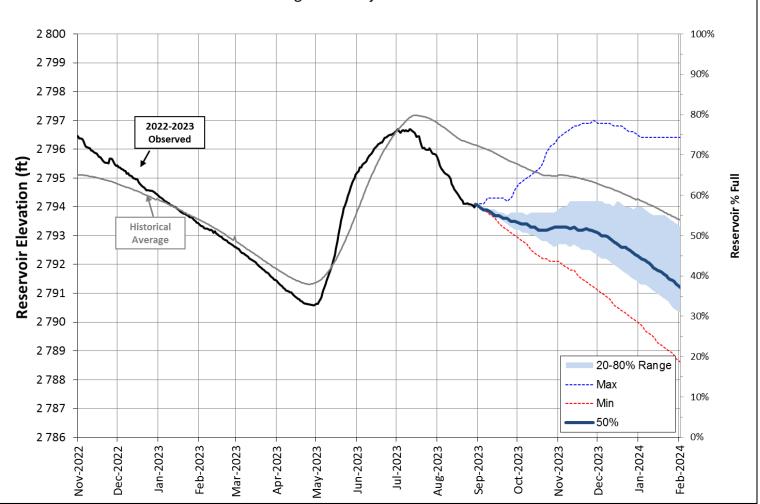


Remark: This station is labeled as "regulated", and the forecast is the sum of natural flows and extended regulated flow from 08JA017.

Source : RFC's Clever model - 08JC001.PDF(gov.bc.ca)

Reservoir Level Projection

NECHAKO RESERVOIR Observed and Projection 2022-2023 30-Aug-2023 Projection - SDP V7.13



Updates - Next Steps – Actions



- 1. Work with BC Wildfire on access
- 2. Model update and communications STMP, Generation etc
- 3. Monitoring work in the field
- 4. 2023 7 Yearly Dam Safety Review underway
- 5. Continue to update on Smelter Re-Start currently at 93% full production
- 6. Confirm next meeting date & time
 Propose September 13th / 20th / 27th

Presentations are available on the Get Involved Nechako website under 'Our Operations'. Recordings can be requested up to 30 days following the meeting.

Feedback & Reflections