

The background of the slide is a photograph of a steep, forested hillside. The hill is covered in a dense stand of tall, thin evergreen trees, likely spruce or fir, with some bare, grey tree trunks visible. The base of the hill meets a body of water, which appears to be a reservoir or a large river. The water is dark blue with some whitecaps. The sky is a pale blue with a few wispy clouds. A red rectangular box is positioned in the upper left corner of the image, containing the text 'RioTinto' in white. A large blue rectangular box is overlaid on the left side of the image, containing the main title and subtitle in white text.

RioTinto

Nechako Reservoir / River / Freshet Information Sharing – Community Leaders

15 June 2022

Prepared by Andrew Czornohalan and Alec
Mercier

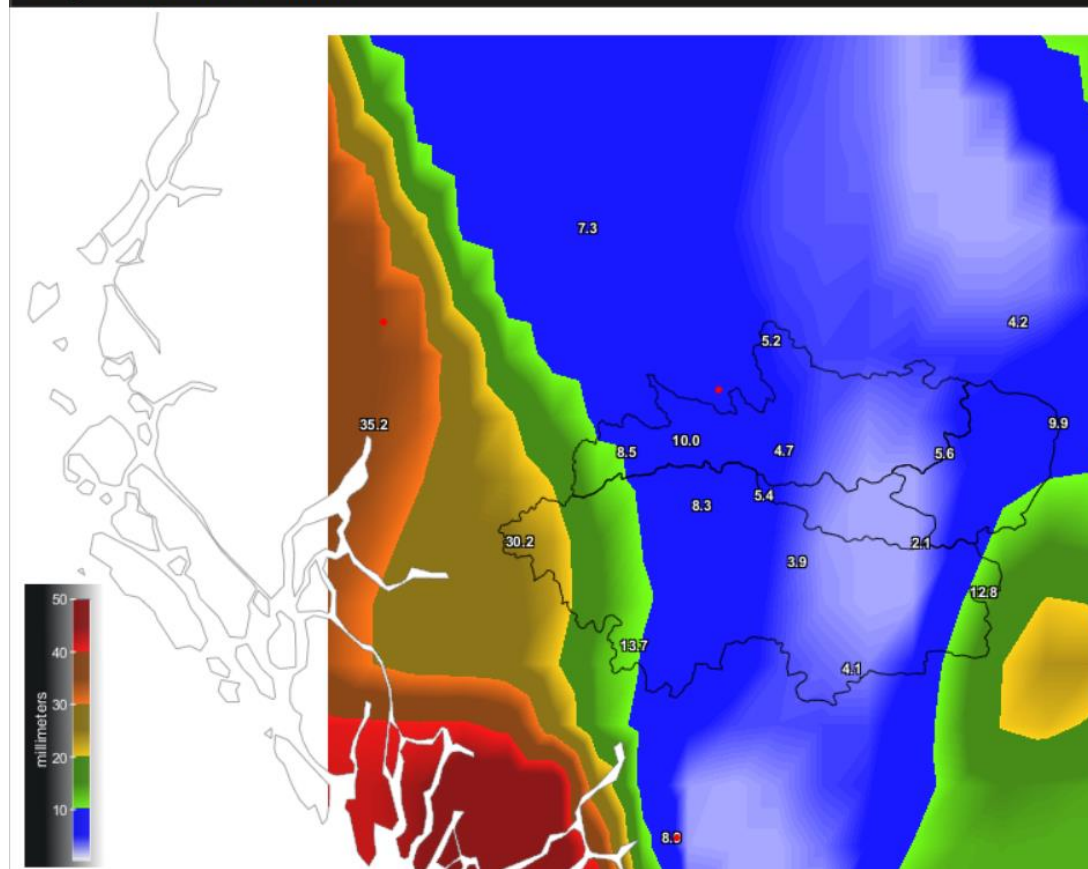
Key Focus

1. Current Watershed Data: Precipitation and elevation
2. Freshet Forecast, looking to the spring / summer and next steps

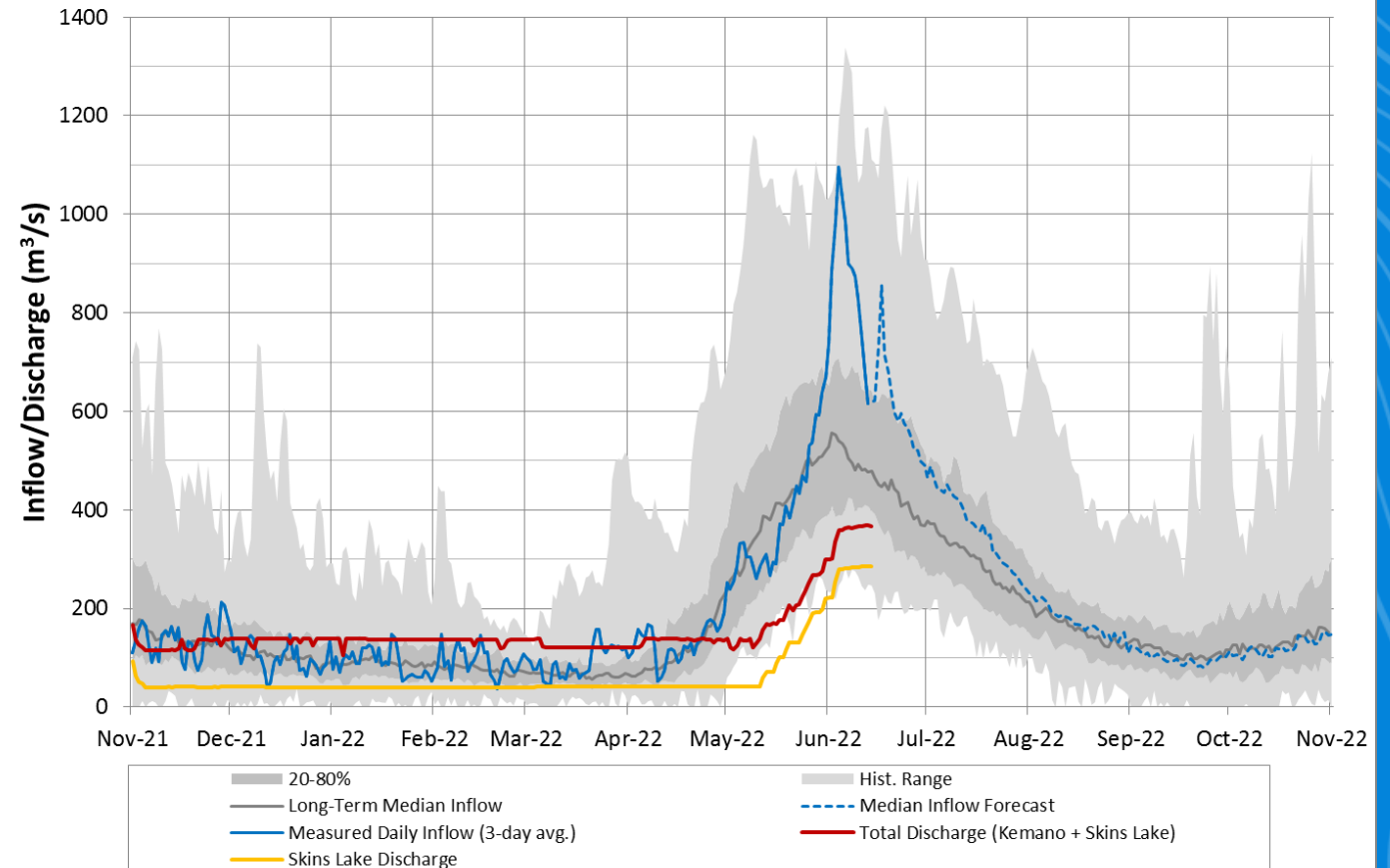


Observed Precipitation, Inflows vs Historical

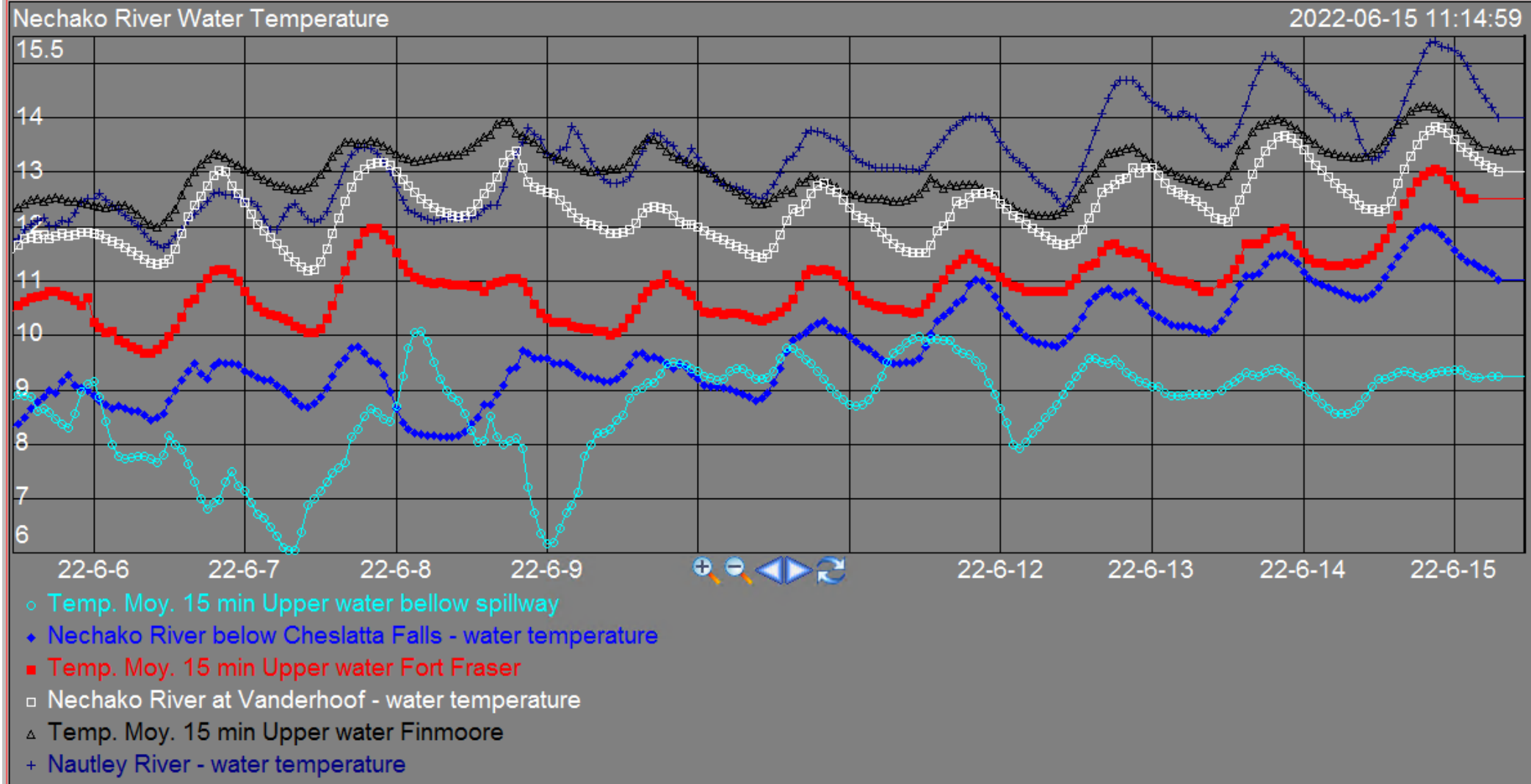
7-day cumulative rainfall



Nechako Reservoir Operation
Observed Inflow and Discharge 2021-2022

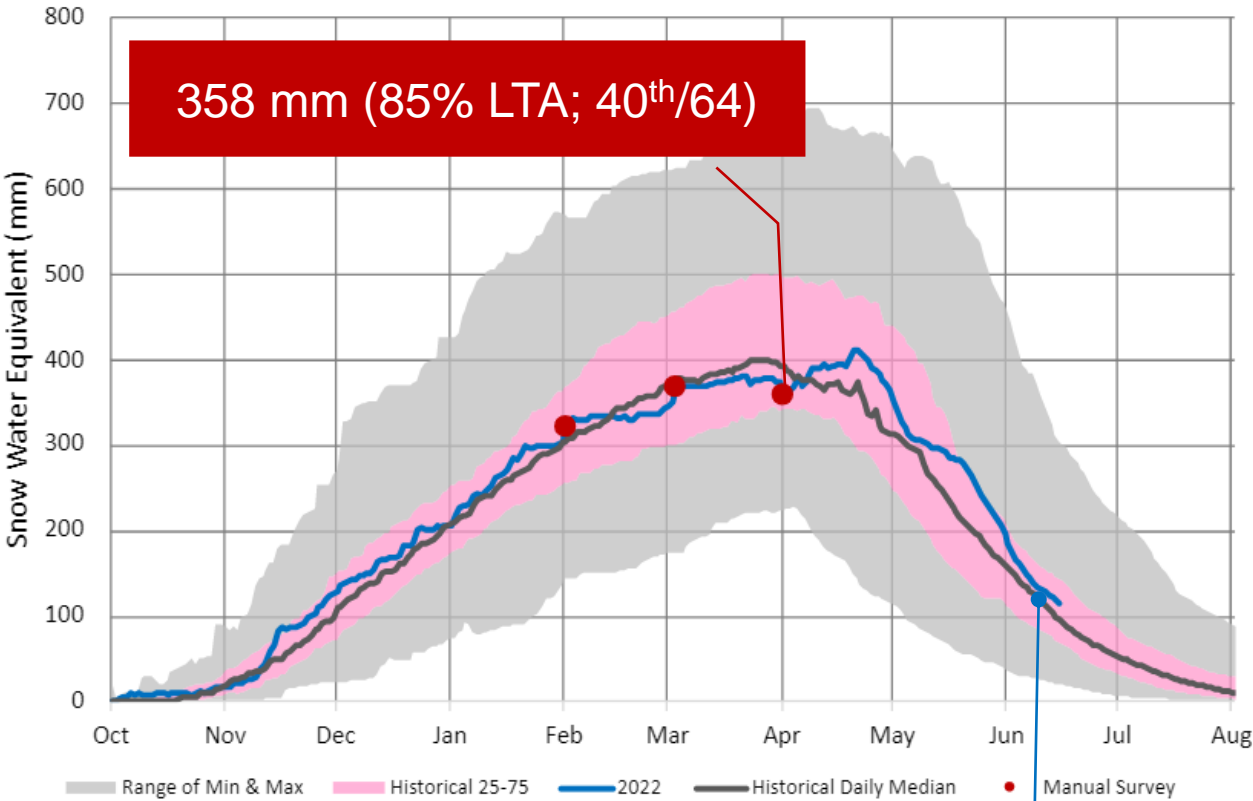


Observed Water Temperatures

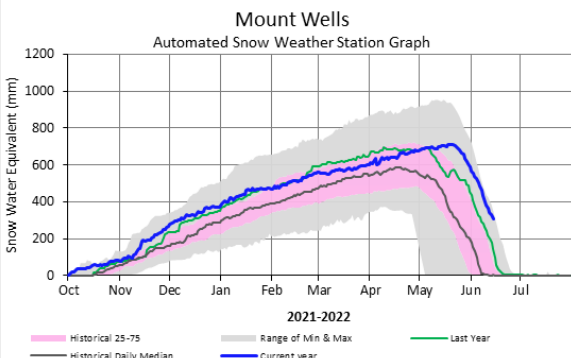
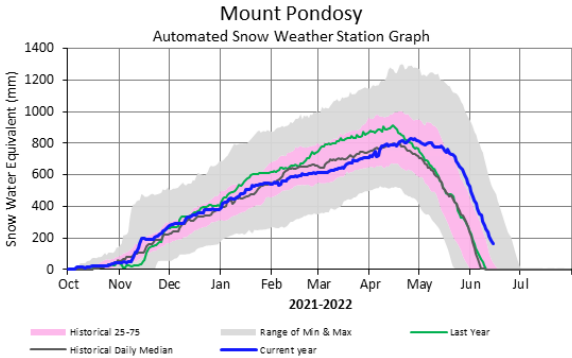
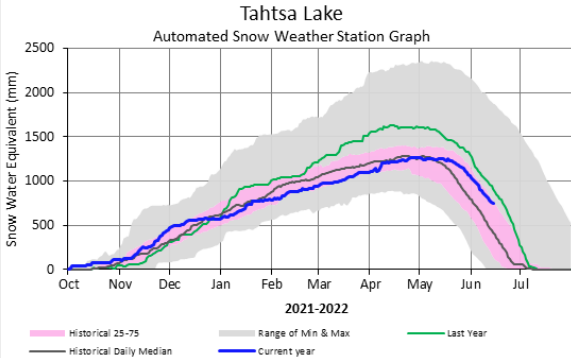


Current Snowpack

Nechako Reservoir Snowpack

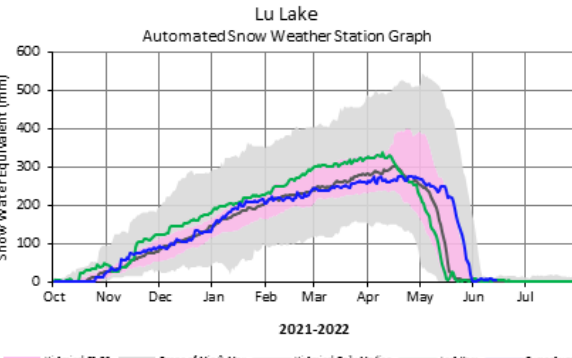


115 mm (100% LTA; 24th/64)



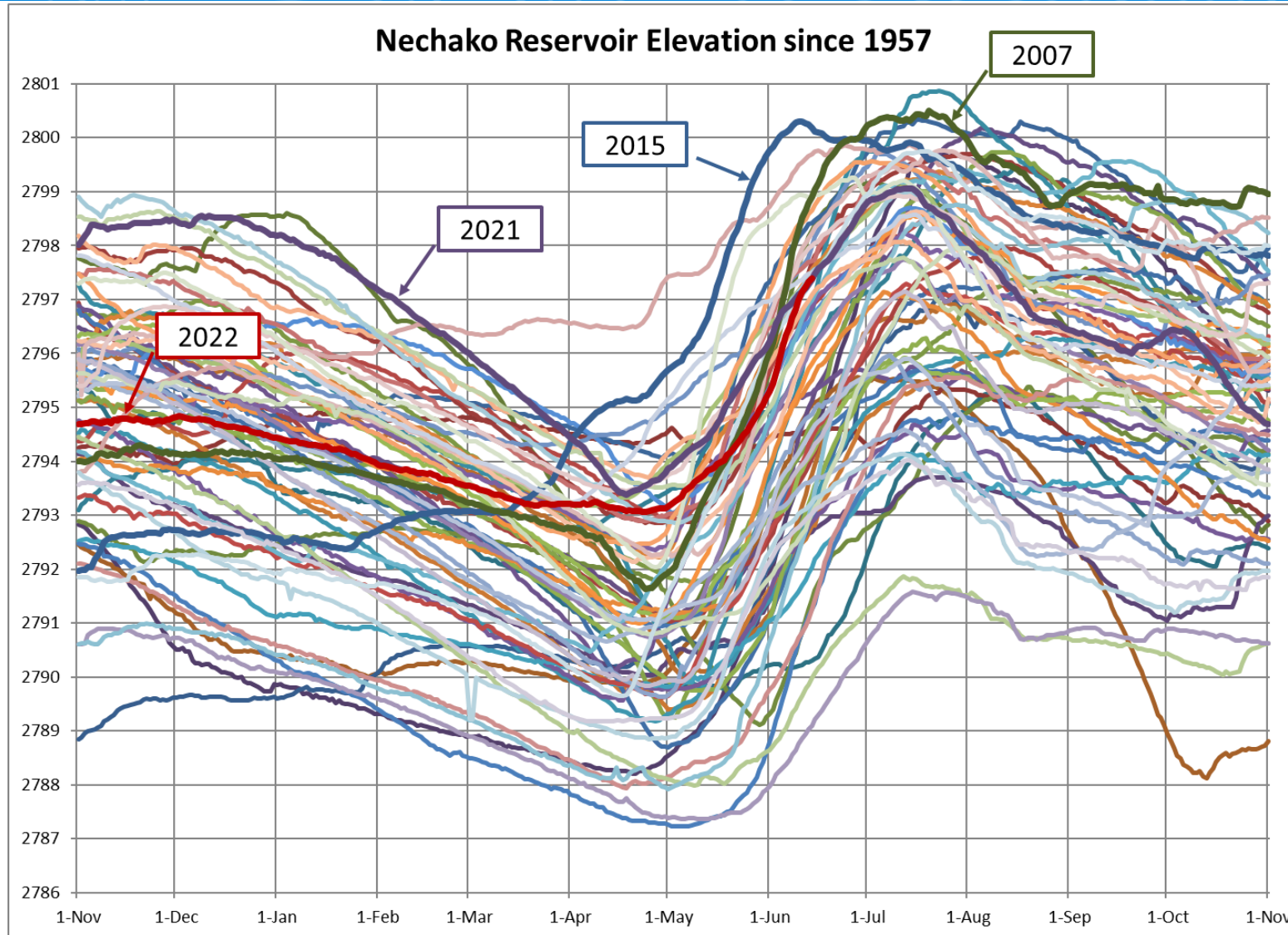
Station	Current Value (mm)	LTA* (mm)	%LTA*	Percentile Rank*
Tahtsa Lake	744	557	134%	73%
Mount Pondosy	166	79	210%	85%
Mount Wells	306	59	518%	97%

* (1992-2021)

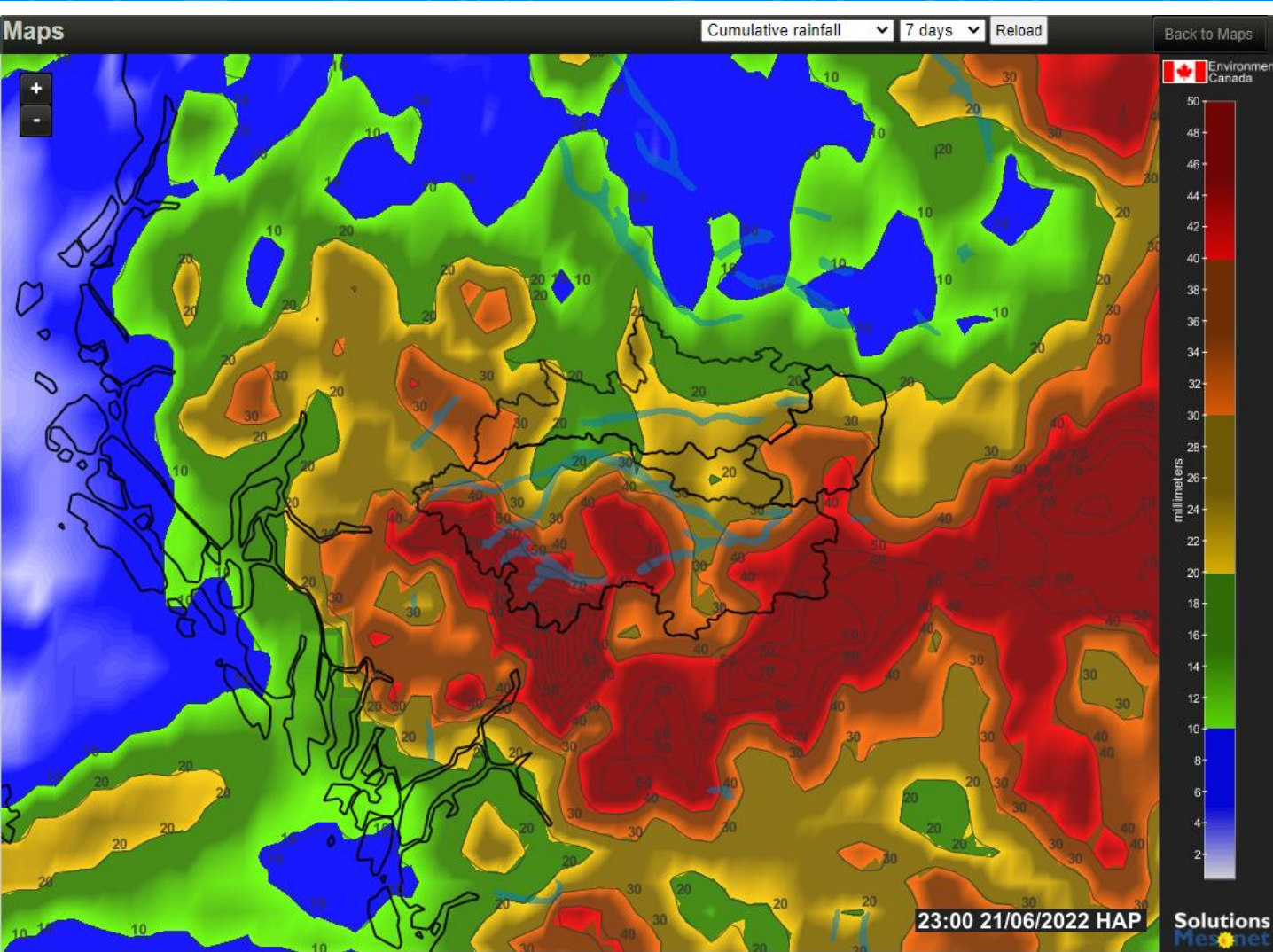


Station	Current Value	%LTA*
Lu Lake	0	0%

Historical Reservoir Elevation



7 Day Weather Forecast

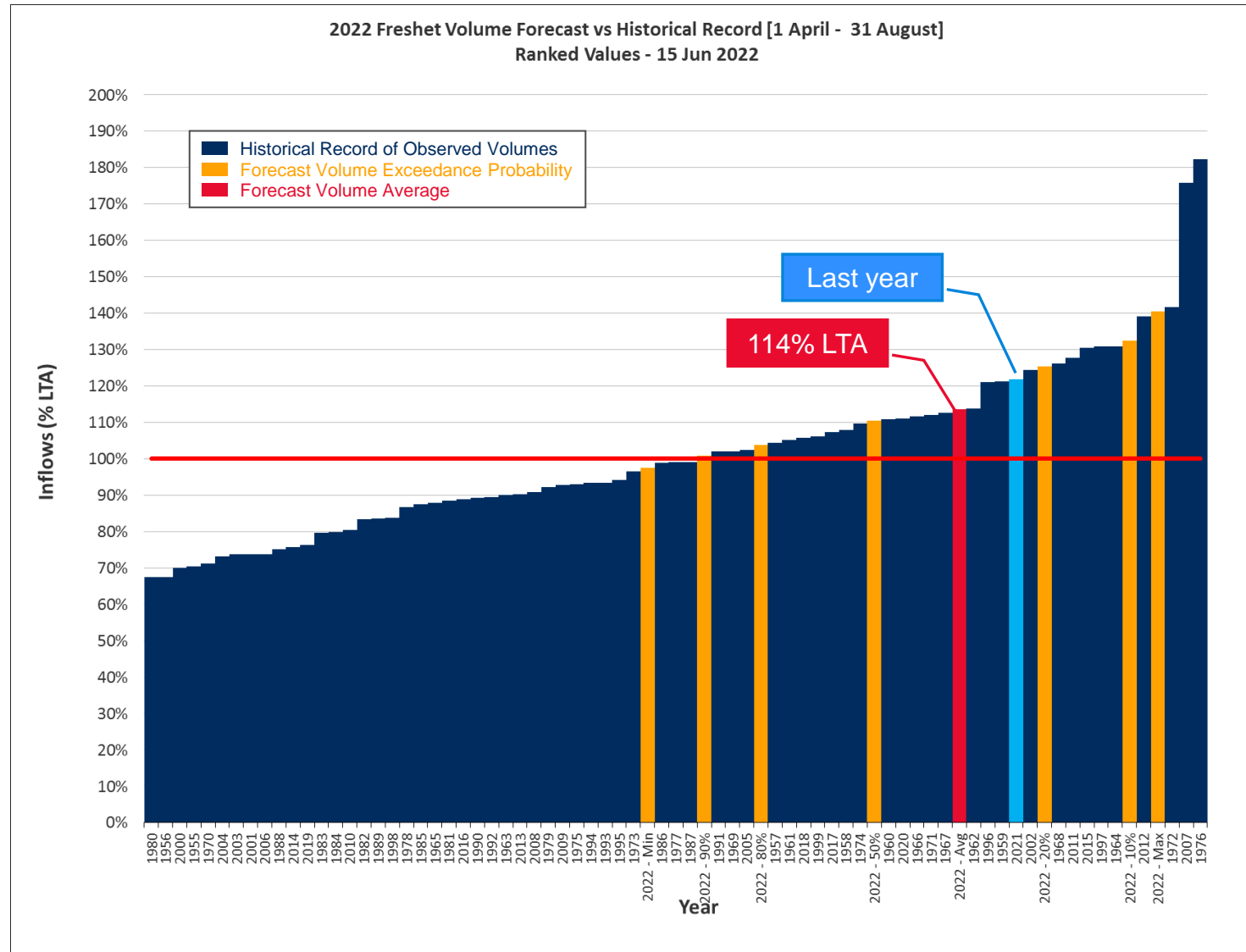


Next 7 Days

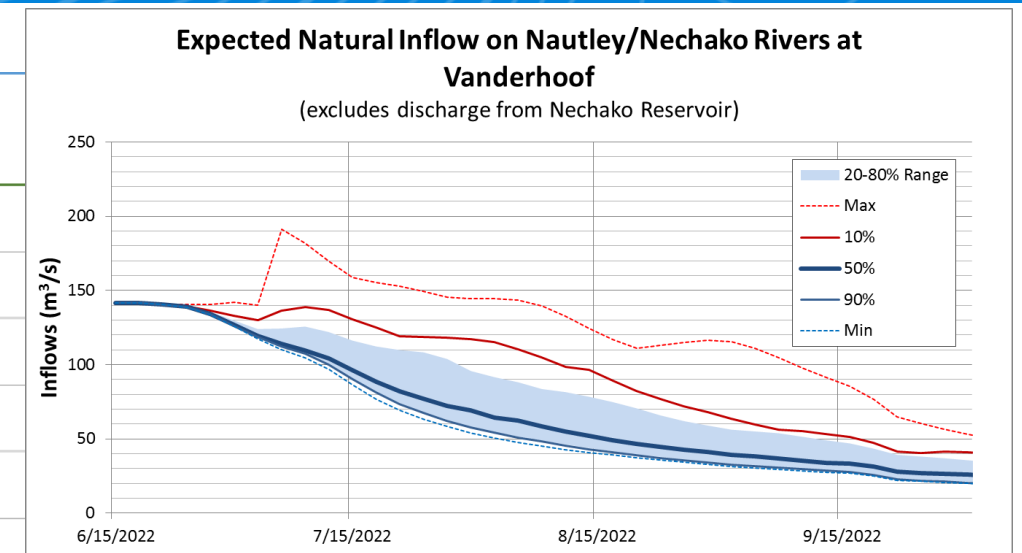
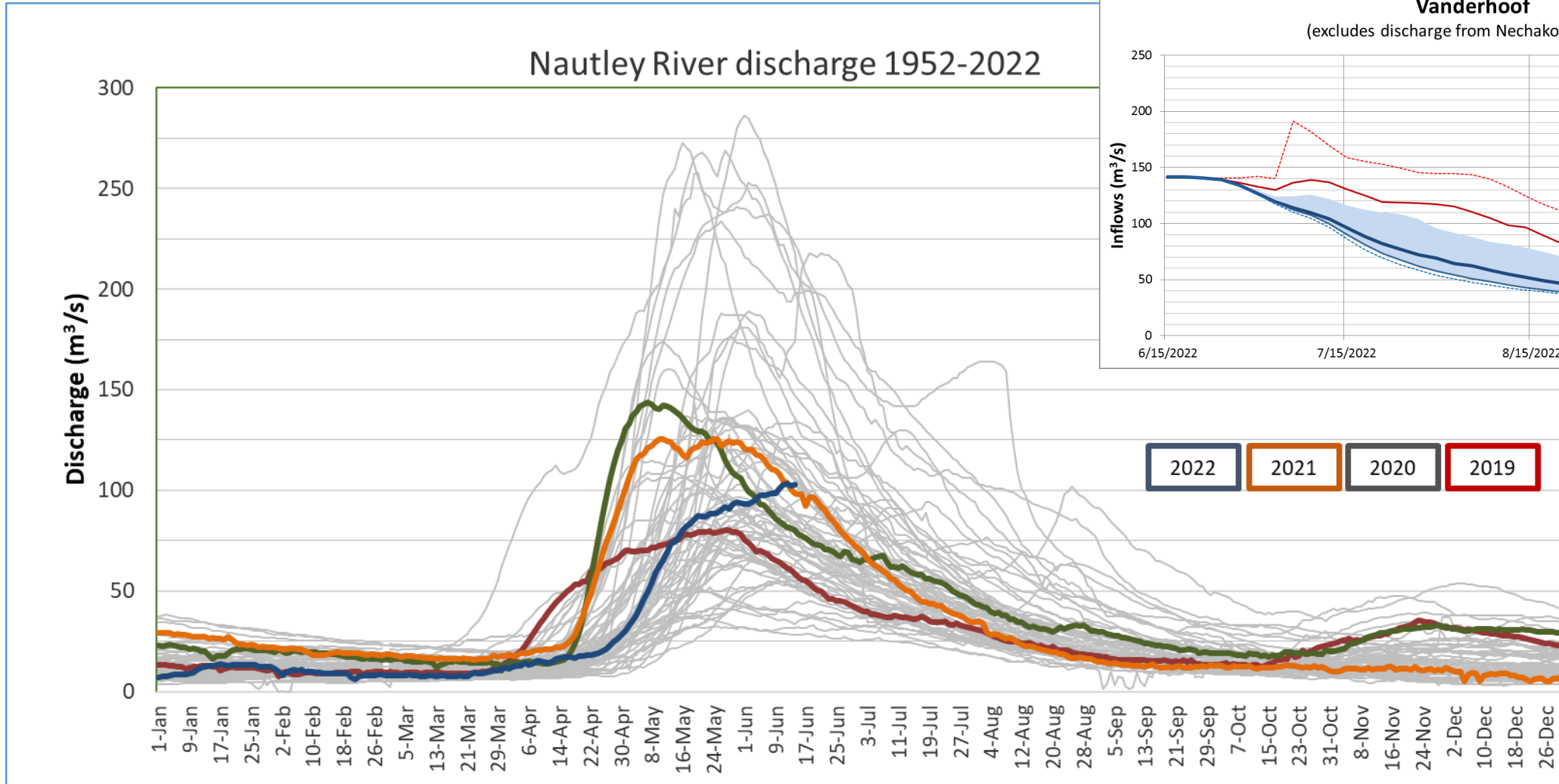


	Thu 06/16	Fri 06/17	Sat 06/18	Sun 06/19	Mon 06/20	Tue 06/21	Wed 06/22
	Light rain	Light rain	A mix of sun and clouds	A Few showers	Mainly sunny	Mainly sunny	Mainly sunny
	16°	15°	19°	19°	18°	17°	14°
Feels like	16	15	19	19	17	17	14
Night	10°	8°	10°	8°	8°	6°	6°
POP	70 %	70 %	30 %	40 %	20 %	20 %	20 %
Wind (km/h)	18 E	12 N	10 N	14 NW	16 W	13 W	8 W
Wind gust (km/h)	27	18	15	21	24	20	12
Hrs Of Sun	2 h	2 h	6 h	9 h	10 h	12 h	12 h
24 Hr Rain	~10 mm	~5 mm	1-3 mm	~5 mm	-	-	<1 mm

Spring Freshet Inflow Forecast

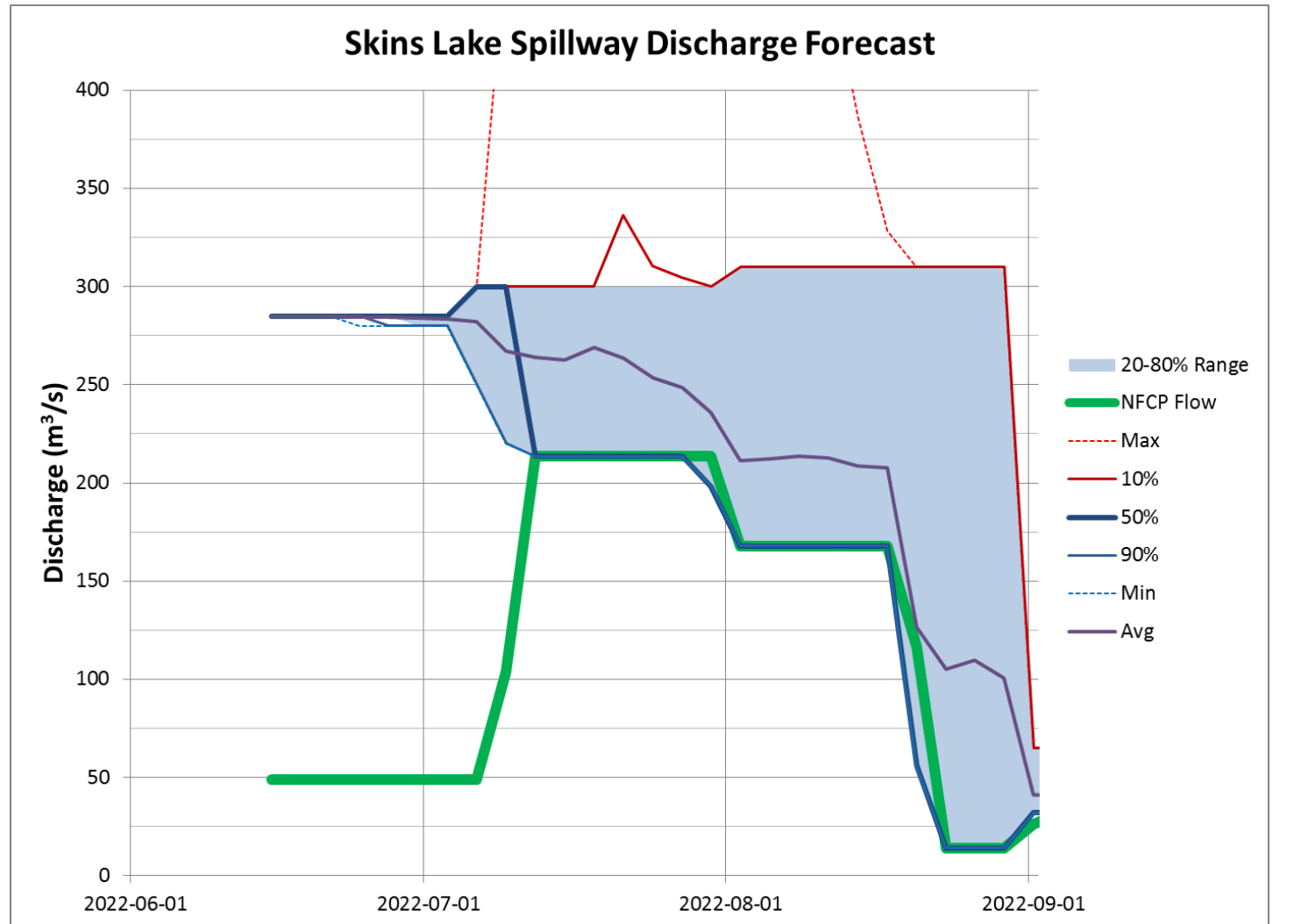


Nautley River Flows, Forecast

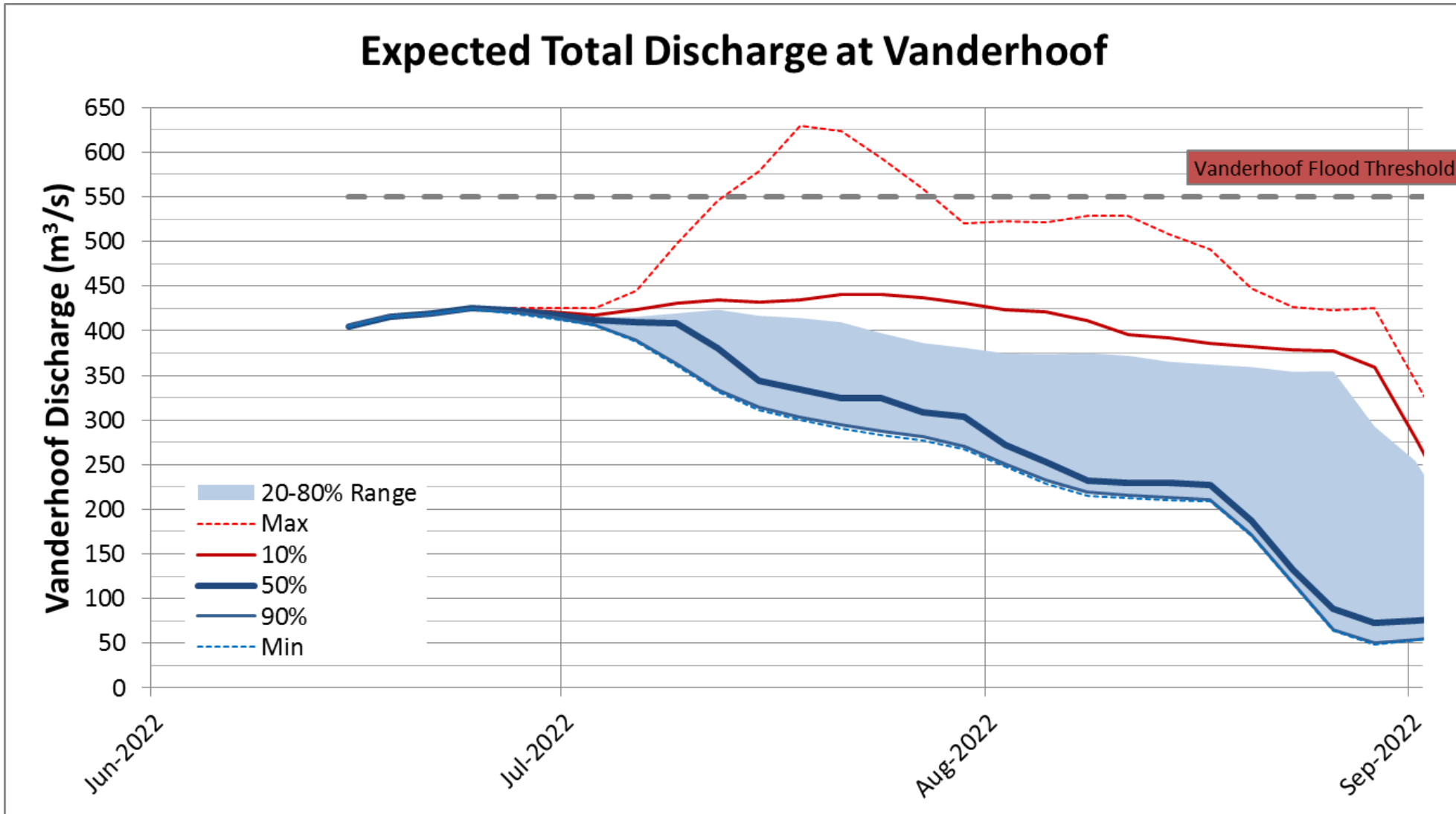


Spillway Management

- SLS discharge is currently at 285 m³/s
- Smelter Re-Start plan integrated
- Flood risk; Murray Cheslatta System 20% and Vanderhoof 5-10%

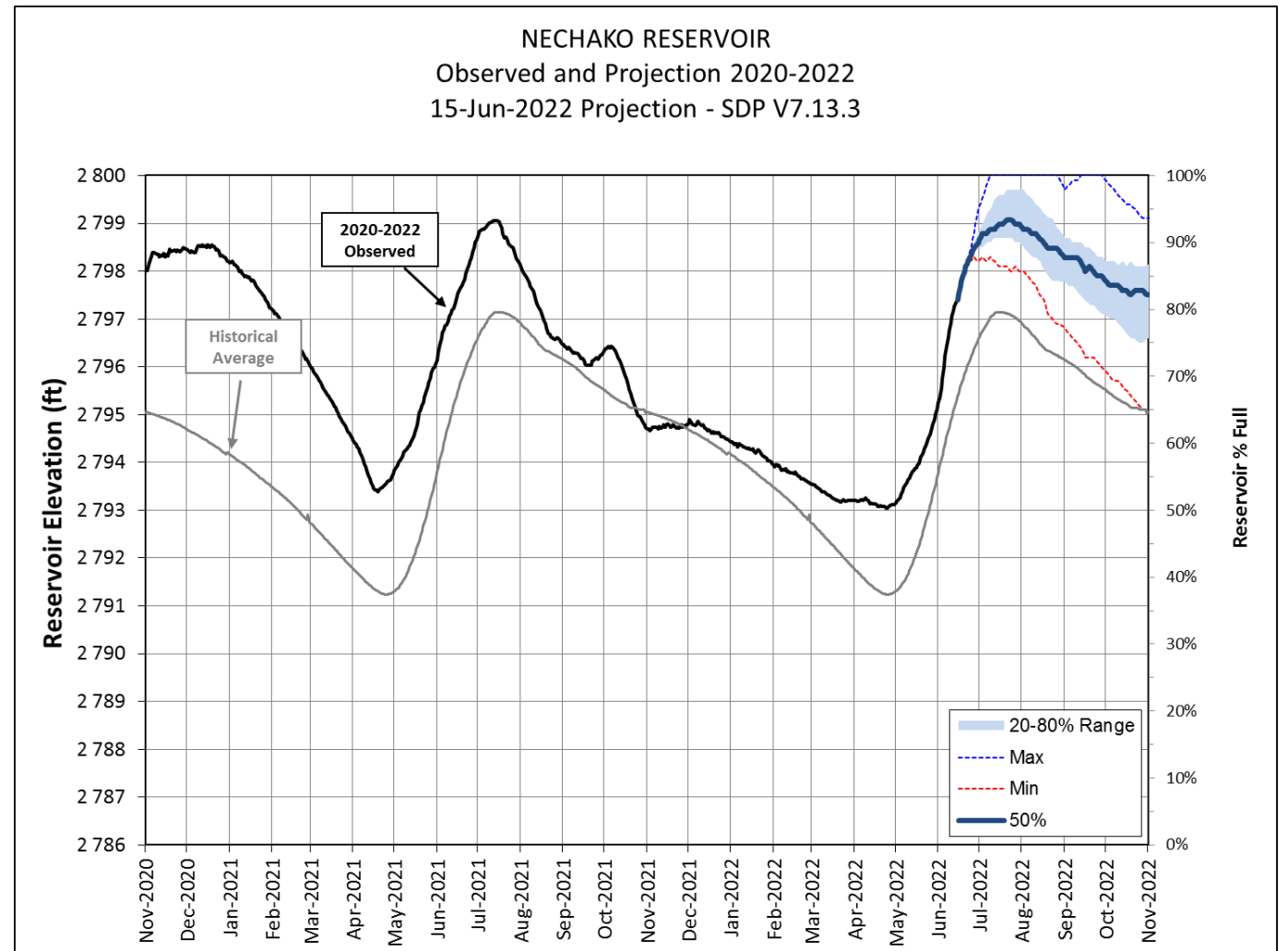


Forecast – Vanderhoof

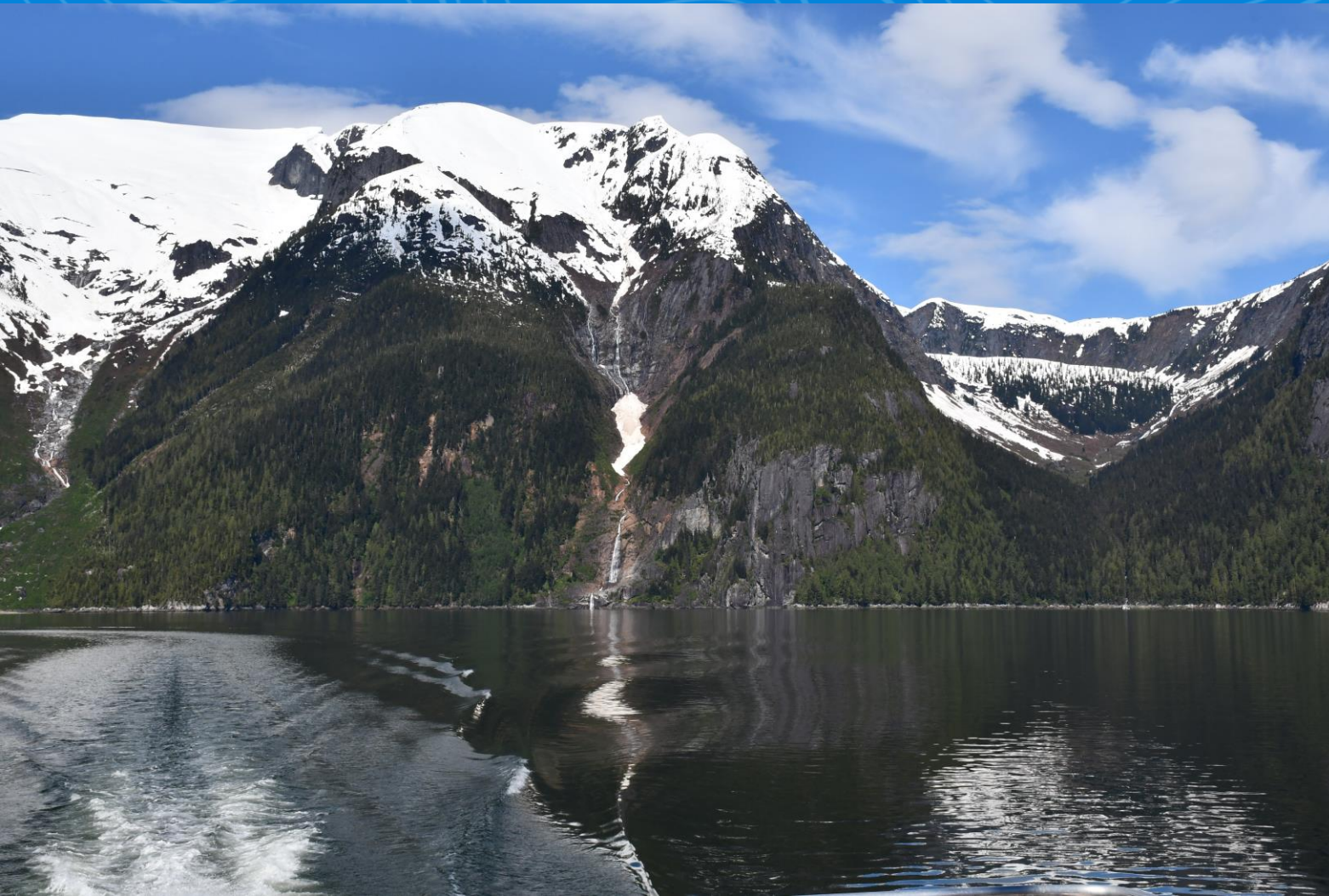


Reservoir Level Projection

- Inflow projections are used to estimate reservoir levels over time considering current hydrology and historically observed additional snow and rain.



Next Steps – Actions

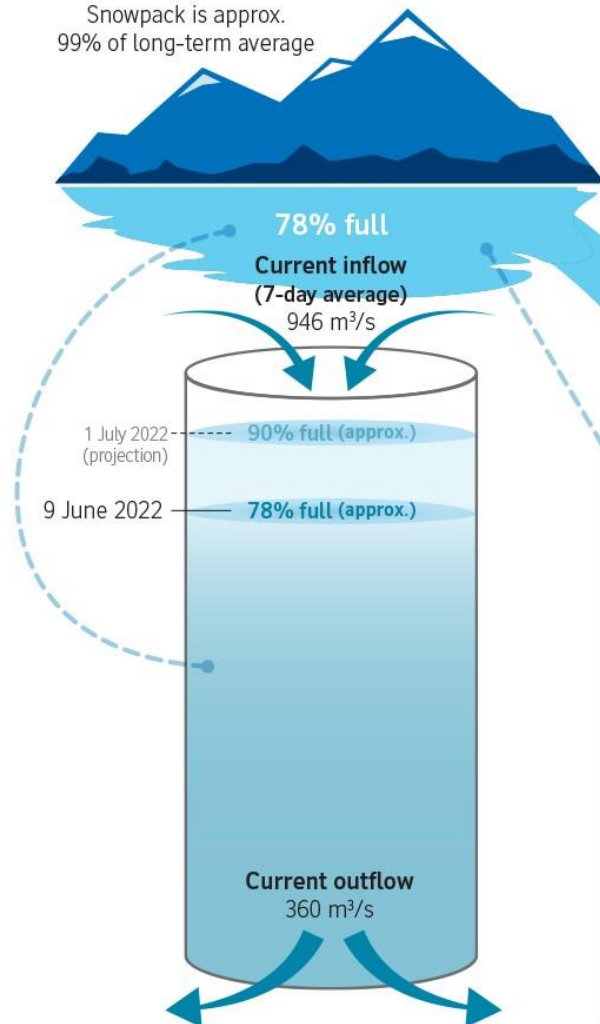


1. Model update and communications.
2. Monitoring work to learn from 2022 release
3. Continue to update on Smelter Re-Start
4. Confirm next meeting date – **22 June or 29 June**

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

Current Conditions - 9 June 2022

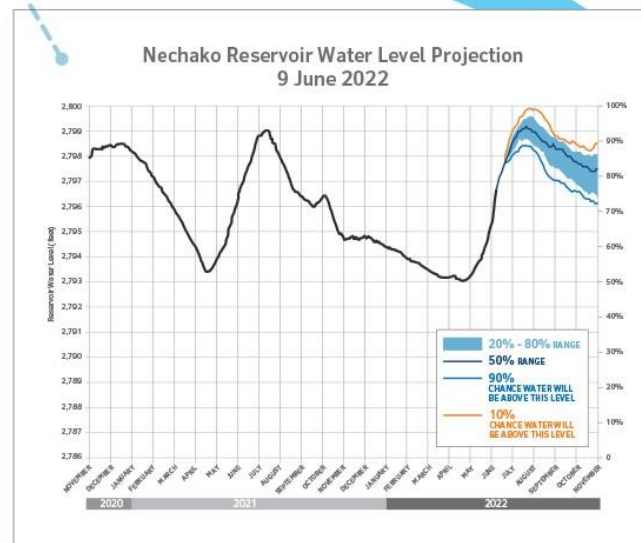
Nechako Reservoir
Snowpack is approx.
99% of long-term average



Nautley Watershed
Snowpack is approx.
0% of long-term average

Cheslatta Falls
255 m³/s

Nautley River
98 m³/s



Nechako Reservoir operations update

- Skins Lake Spillway discharge will be maintained at approximately 280 m³/sec to control the rise of the reservoir level with the ongoing Spring freshet.
- For real time information and updates visit getinvolvednechako.ca
- To subscribe to weekly updates email us at nechakoreservoirupdates@riotinto.com

Stuart River
Snowpack data is not available

Vanderhoof
375 m³/s

Stuart River
214 m³/s

Prince George
587 m³/s

Fraser River

Feedback & Reflections

