

Fort Chipewyan Water Treatment Plant



RMWB Community Update



Today's Discussion

- Drinking water from the Water Treatment Plant is Safe
- Delivering Safe Drinking Water During Spring Melt
- Water Monitoring in the Future
- What Happens if the Water Becomes Contaminated
- Mitigation and Prevention Planning
- Q&A Session/Open Floor Discussion



Water Treatment Process in Fort Chipewyan



- Water pumped from Lake Athabasca
- Stored in raw water ponds
- Water Treatment Plant treats the water
- Water test based on Canadian Drinking Water standards
- Clean drinking water distributed to the community



Drinking Water is Safe

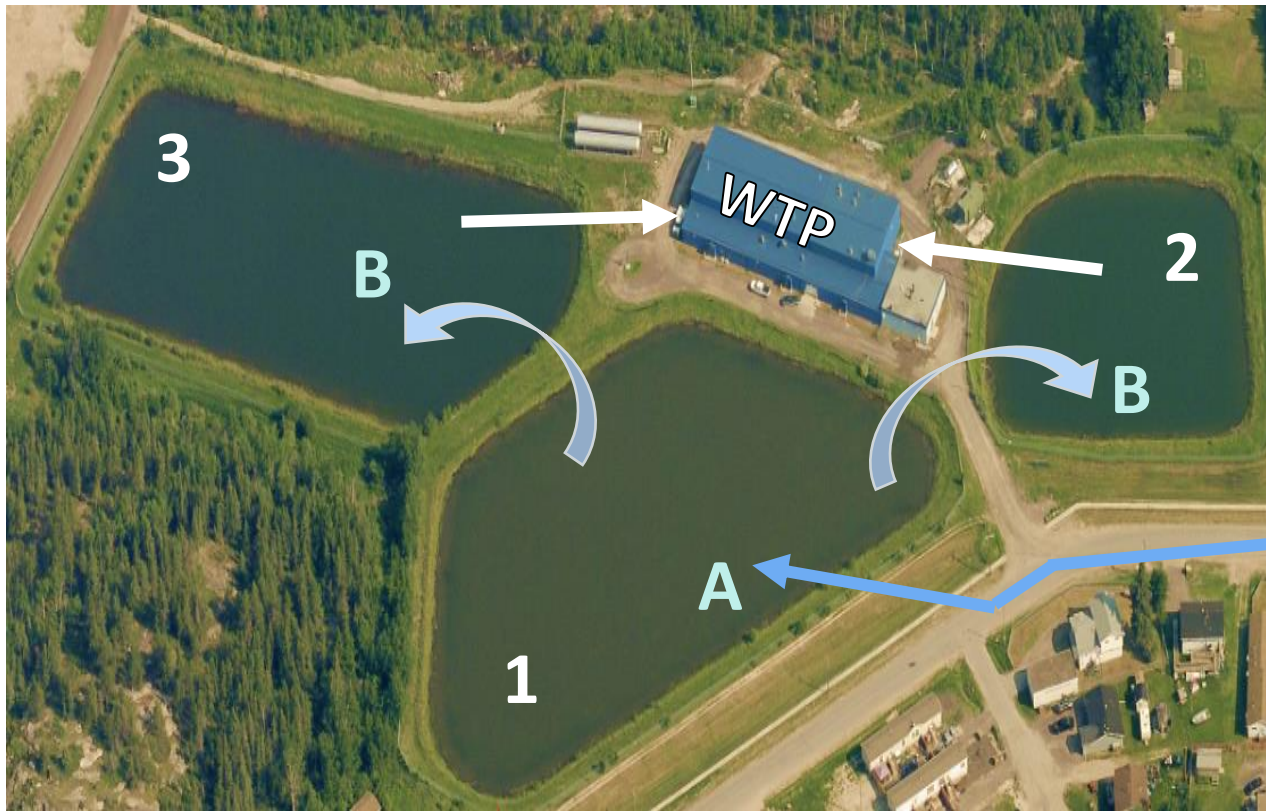
- All testing results in July, December, January, and extra testing in March indicate the water is **meeting Canadian Drinking Water Quality Guidelines**.

What we are doing now until the spring melt (freshet)

- Intake closed February 27 and opened on March 23. Currently, we are filling ponds until 90%, which will take about a 7-10 days.
- Ongoing weekly **increased** monitoring started March 23 to test the water at the intake and coming out of the plant.
- Once a week we will open the intake for 1-3 days, collect samples, and fill the ponds until water level reaches 90%.



Delivering Safe Drinking Water in Preparation and During Spring Melt



Step A:

- Use Ponds 2 and 3 to supply the Water Treatment Plant
- Fill Pond 1 (isolated from 2 and 3)
- When Pond 1 is full, test water

Step B:

- After results of Pond 1 water come back negative (5-10 days), transfer water from Pond 1 into Ponds 2 and 3
- Once Pond 2 and 3 are full stop water transfer (Pond 1 is isolated again)

Start step A again until river break



Water Monitoring in the Future

- During freshet – intake closed until reopened using the plan from previous slide.
- After freshet – To be determined in consultation with AEPA.
- Replacement of the valve between Pond 1 and Pond 2 (summer 2023)
- Replacement of the valve between Pond 1 and Pond 3 (summer 2023)
- Regular exercise of the valves between ponds and the plant (yearly)



What Happens if the Water Becomes Contaminated

- If we ever experience levels of contamination in the Water Treatment Plant, we will notify the community and take necessary actions.
- There are strong Community Emergency Management Plans in place.
- The Municipality always works closely with Alberta Environment and Protected Areas (AEPA) and Alberta Health Services (AHS).



Mitigation and Prevention Planning

Moving the water intake location is key

- Inland:
 - Inland lake
 - Groundwater
- On Lake Athabasca
 - Relocate intake further north



Conclusion

- We are confident in the water quality that the Fort Chipewyan Water Treatment Plant is producing.
- We test, monitor, share the results and work closely with community leaders.
- We will continue to communicate and share information as it becomes available.
- Q&A session/open floor discussion

