

An exciting water project is happening in Nelson in 2020 and 2021.....

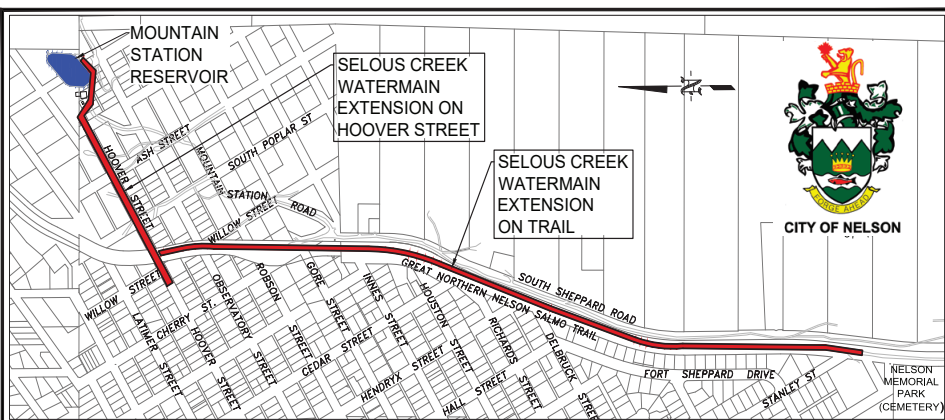
The City is building a major water transmission main line about 4 km long to bring water from Selous Creek and Anderson Creek along the Great Northern Trail to the City reservoir at the Mountain Station Water Treatment Facility. This work is part of a larger program to centralize Nelson's water sources at the Water Treatment Facility.

PHASE 1 – 2020

Construction from the middle of May through to the end of September, 2020.

Installation of approximately 2.3 km of water line extends the Selous Creek transmission line along the Great Northern Trail - Nelson to Salmo section from the top of Stanley Street via the Hoover Street right-of-way to Mountain Station Reservoir.

The surface of the trail will be restored to original condition at completion of the work.



PHASE 2 – 2021

Timeline to be determined

Installation of approximately 1.7 km of water main extending from Anderson Creek (Svoboda Road) to Mountain Station Reservoir.

Where will the money come from?

The City received a grant of 6 million dollars from the Strategic Priorities Fund, which is one of the three programs tied to the Federal Government Gas Tax Fund. This grant is unique in that it is 100% funded, as most grants require a cost sharing between different levels of government. Nelson is fortunate to receive a grant of this size as it will bring many of the initiatives identified in the Water Master Plan to fruition.

Looking Ahead:

Once this project is completed, we will have better water security over the next 50 years as envisioned in the Water Master Plan. Water security and water quality will be improved for the foreseeable future and we should see fewer water quality advisories which are often issued as the Selous and Anderson Creek sources come online.

Where does the City water come from?

- 5 Mile Creek – above Svoboda Road – a 25 to 30 cm diameter pipe brings water to the reservoir via a 7.5 km long transmission main installed almost 100 years ago.
- Selous Creek – South of Nelson
- Anderson Creek – Fairview

Where do we store our water?

The City has three water reservoirs:

- Mountain Station (the main reservoir) has a capacity of approximately 25 million litres of raw water.
- Rosemont reservoir has a capacity of approximately 1,400 m3 of treated water.
- Fairview reservoir has a capacity of approximately 1,900 m3 of treated water.
- There is also approximately 1,500 m3 of active storage throughout the system.

HOW WILL THIS IMPACT TRAIL USERS?

Parking spaces at Mountain Station will be reduced throughout the project. Caution is advised due to construction activity. Flaggers will be in place when construction activities are in the immediate parking area.

From May 19th until early July 2020, the rail trail from Mountain Station parking lot south to the Stanley Street right-of-way will be closed. A detour will be put in place prior to the closure along South Sheppard Road.

From July 6th to July 20th approx. Mountain Station parking lot will be closed as the project continues to Hoover Street right-of-way along the rail grade.

The City is working with the Ministry of Transportation and Infrastructure (MoTI) and Regional District of Central Kootenay (RDCK) to minimize disruptions.

The schedule may vary dependent upon the contractor's schedule.

We will advise the public via the City's Facebook page and website of project updates and notices at Mountain Station as necessary.



Hoover Street right-of-way – looking east up the steep grade from the Great Northern Trail showing the area of the proposed water main route.



Great Northern Trail – looking north.

How is our water treated?

Water from the three sources will flow into a large sedimentation basin at Mountain Station to settle out suspended particles, then through screens and into ultraviolet disinfection units. Once irradiated with UV light, hypochlorite solution (a source of chlorine) is injected into the water before being mixed and stored in a 1000 cubic meter chlorine contact tank. Once sufficient chlorine contact time is achieved, the treated water is ready for distribution.

How is it distributed?

The distribution system is a network of over 320 gravity-fed water mains, storage reservoirs, a dozen pressure reducing stations, hydrants and 1,600 system valves, serving four pressure zones. There is about 90 kms of underground piping throughout the utility ranging in size from 50 to 400 mm.

How much water do we use?

Nelson uses approximately 2 million cubic metres of water a year (comparable to filling 800 Olympic size swimming pools) with our peak usage occurring between June and August.

Why is it important to conserve water?

The snow-fed creeks we rely on do not provide an endless supply of water flow, and what is supplied must be collected, treated and distributed, at a cost to all residents.

Maintaining a full reservoir is vital for fire protection. Without conservation, especially in the summer, the reservoir maintains approximately 3 days of supply.

Thank you for doing your part in conserving water!

HAVE QUESTIONS OR WANT MORE INFORMATION?

- Check out our website (www.nelson.ca) – under City News and under City Services (water)
- Call (250) 352-8238
- Email: publicworks@nelson.ca

Find us on Facebook and Instagram.



@thecityofnelson #thecityofnelson

Sign-up today to receive notifications from the City at www.nelson.ca/notifications

Notify Me®