

Subject Engineering and Utilities Report to Board

Month July 2025

UTILITY SYSTEMS

Eastside Lake Windermere Water

There were several properties with existing services who reconnected to the system in June.

The system has already seen an increase in water use typical with summer months. There have been a few days during the week that the plant was running all day to meet demand. As this was abnormal, Compliance was notified and went out to check if residents were watering outside of the appropriate watering times, effectively utilizing inter-departmental collaboration.

The automatic transfer switch at the high lift station generator has been replaced and is now functioning normally. The automatic transfer switch at the Windermere Loop plant generator is scheduled to be replaced June, 20, 2025. Water line flushing has been completed in Windermere for the year.

A Request for Proposals (RFP) for engineering services for the 940 Reservoir Expansion Project is now closed and evaluations are in progress. A recommendation for award is anticipated at the July Board meeting. This project is intended to meet future service demands through increased reservoir storage capacity within the planned design horizon of twenty years. The existing 940 reservoir is currently undersized based on current water demands, projected water demands, and necessary fire protection storage. The non-farm use application for the 940 Reservoir Expansion was supported at the June 18 Advisory Planning Committee (APC) Electoral F & G meeting. The application is now forwarded to the RDEK's Planning Committee for consideration at the July 10 meeting.

An RFP for engineering services for watermain replacement on Wood Lane Road in Windermere is planned to be issued June 25, 2025. The 2022 East Side Water System Master Plan identified that Wood Lane Road watermain should be considered as one of the next watermain replacements in Windermere.

Operators performing seasonal hydrant flushing.



Holland Creek Water & Sewer

The Holland Creek water system is performing well. There were no new connections in June.

MPE Engineering Ltd. has commenced drafting the Holland Creek Water Master Plan. These comprehensive master plans will provide guidance and direction on the operation, maintenance, capital works, infrastructure renewal, and financial planning requirements to sustainably operate the utilities. This master plan is funded by the Growing Communities Fund.

Operators servicing the water meter for the Cottages at Copper Point.



Edgewater Water

The Edgewater water system is performing well. Operators are confident that the system has made it through spring melt (freshet) without having to place a water quality advisory (WQA) on the system.

The Disaster Resilience and Innovation Funding (DRIF) proposal has been supported by the Board for submission. The DRIF application is for Foundational and Non-Structural Project (planning and engineering design) activities related to the Lake Baptiste raw water intake. The application will be submitted before the June 27, 2025 deadline.

Edgewater Sewer

The 2025 Edgewater Connectivity Project is underway. Engineering has been allocated funding as part of the Integrated Bilateral Agreement for Investing in Canada Infrastructure Program (IBA-ICIP) for SCADA upgrades. The upgrades include modernizing connectivity at wastewater facilities via fibre optics thus ensuring the existing SCADA system can be hosted at the Edgewater WTP.

Rushmere Water

The Rushmere water system is performing well.

Spur Valley Water

The Spur Valley water system is performing well.

Moyie Water

There is a potential grading issue related to the leak repair performed in May. A property owner has advised that ground water is now being diverted to his property creating issue. The operator is investigating, which may result in additional costs to the service to regrade.

Elko Water

The Elko water system is performing well.

FLOOD & WATER CONTROL

Area A

The Hosmer and Mine Creek Assessment and Guidance Project is progressing with a draft report received at the end of May. A finalized report is anticipated in July.

Cold Spring Creek Debris Flow Mitigation Project

Mackay has largely demobilized from the site as they wait for materials required to complete the project. Completion is expected in early summer. The structure is fully functional.

Photo taken on June 3.



Fairmont Creek Hazard and Risk Assessment

The Fairmont Creek Debris Flow Hazard and Risk Assessment and Mitigation Options Project is progressing. The hazard and risk assessment portion of the project is expected to be completed in early summer 2025. Consultants have presented initial conceptual mitigation designs to staff.

Rosen Lake Consequence Classification

The Rosen Lake Consequence Classification project is underway. Site surveys, inspections, hydrology, and dam breach estimates have been completed. The consequence of failure assessment is being completed, and a final report is expected on June 30.

GIS, MAPPING & CIVIC ADDRESSING

Staffing Update

Jakob Koell joined the GIS team in a full-time permanent position as GIS Mapping Technician working out of the Columbia Valley office. Jakob was previously employed in a temporary role and made a strong impression through his work on ParcelMapBC and NG911 data translation.