

Summary of RWS Capital Project #18-07

Calendar Year	Milestones/Updates
2018	Regional Water Supply (RWS) Capital Project #18-07 authorized to study installing two additional Ultraviolet (UV) reactors at Goldstream Water Treatment Plant (GWTP) that had been decommissioned from Sooke River Road Disinfection Facility and to investigate replacement requirements for all existing UV reactors.
2019	Contract awarded to Stantec Consulting Ltd. on Aug 31, 2019 to study UV reactor replacement options.
2020	<p>A series of three technical memoranda finalized between February and November 2020.</p> <p>Assessment determined that repurposing existing equipment for GWTP reactors 9 and 10 would provide limited value, given that the equipment is no longer supported and existing units had been utilized for spare parts required on other reactors. Recommendation to replace all existing reactors at end of 20-year recommended service life.</p> <p>Capital Project #18-07 updated in Capital Plan to include replacement of all UV Reactors at GWTP.</p>
2021	Contract awarded to Associated Engineering (B.C.) Ltd. on Sept 16, 2021 for design and construction oversight for the replacement of the UV System.
2022	<p>Preliminary Design completed in May 2022 with an Opinion of Probable Cost of \$11.0 million (M).</p> <p>Decision made to pre-procure UV Reactors competitively, given long lead times.</p>
2023	<p>UV Reactor Supply Contract awarded to Trojan Technologies Group ULC on May 24, 2023 for \$2.28M, following competitive Request for Proposals (RFP) process.</p> <p>Target design conditions, including the 532 Million Litres per day (MLD) at 85% Ultraviolet Transmittance (UVT) design condition, were deemed to achievable with only eight reactors (N+1 redundancy), a reduction from the 15 reactors currently utilized.</p> <p>60% and 90% Design Packages delivered, incorporating details associated with the Supply Contract.</p> <p>Regional Water Supply Commission (RWSC) approve 2024 budget increase to \$11.5M and project description expanded to include controls upgrades with the UV replacement project.</p>
2024	<p>Construction RFP released to procure Contractor to complete installation of UV Reactors and to undertake controls upgrades related to all processes at GWTP.</p> <p>Only one bid received by Industra Construction Corp. Contractor team determined to be competent to complete the work, but financial submission exceeds available budget.</p> <p>Negotiations between CRD and Industra Construction Corp. revise terms and risk allocation such that price is negotiated from \$8.68M to \$6.99M.</p> <p>Staff report written to RWSC for June 19, 2024 meeting and RWSC accepts staff recommendation to award Contract to Industra Construction Corp. for \$6.99M with authorization up to an additional \$600k in contingency funds for this Contract. Contract is executed on July 17, 2024. Critical subcontractors included Fettback & Heesterman Energy Ltd. and QCA Systems Ltd.</p> <p>BC Hydro Incentive Agreement awarded to the project and executed on August 7, 2024, adding an additional \$330,346 in funding.</p> <p>Contractor mobilizes to site in August 2024.</p> <p>Plant operated on half of existing UV reactors in the fourth quarter (Q4) of 2024 while first stage of UV Reactors (units 5 to 8) were installed and in operation before year end.</p> <p>Ammonia building improvements—Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) improvements—completed in Q4 of 2024.</p>
2025	<p>Second stage of UV Reactors (units 1 to 4) were installed while plant operated on new reactors 5 to 8. All eight reactors were commissioned and operational by end of Q1 2025.</p> <p>Hypochlorite building improvements (PLC/SCADA upgrades) completed in Q1 of 2025.</p> <p>Certificate of Completion issued the week of April 7, 2025.</p>