
To: Liquid Waste Committee

From: Cheryl Nelms, General Manager, Project Delivery

Date: April 1, 2022 Meeting Date: April 13, 2022

Subject: **North Shore Wastewater Treatment Plant Project Update**

RECOMMENDATION

That the GVS&DD Board receive for information the report dated April 1, 2022, titled “North Shore Wastewater Treatment Plant Project Update”.

EXECUTIVE SUMMARY

Metro Vancouver has terminated its contract with Acciona Wastewater Solutions LP (Project Co) and is moving forward with a new project delivery model to complete the North Shore Wastewater Treatment Plant Project. Under the new model, Metro Vancouver is working with the general contractor PCL Constructors Westcoast Inc (PCL) to finalize construction and the design consultant AECOM to complete the design, to be the Engineer of Record, and to provide quality assurance services.

AECOM is proceeding with detailed design, and preparing “Issued for Construction” drawings which will be used in “Early Works Packages” for construction by PCL. PCL has signed the Pre-Construction Services Agreement and has taken responsibility for safety and security of the Project Site as of April 1, 2022 when it was transferred from Project Co. PCL is mobilizing resources for the construction management services contract and is commencing work toward developing a detailed Execution Plan, project schedule, and detailed cost estimate.

Project Co’s transition from the project is in progress, scheduled to be complete in late April 2022.

PURPOSE

The purpose of this report is to provide information to the Liquid Waste Committee and GVS&DD Board about the progress of the North Shore Wastewater Treatment Plant Project.

BACKGROUND

On January 20, 2022, the GVS&DD issued a notice of termination of the contract between GVS&DD and Project Co. Following termination of the contract, Metro Vancouver proceeded with work to engage an alternate general contractor and design consultant to deliver the project as quickly as possible and in the best interest of the region, with an intent to minimize costs and risks to the public.

The design and construction of the North Shore Wastewater Treatment Plant Project is partially complete. Completed construction includes ground improvement, approximately half of the superstructure structural concrete, and some in-street wastewater conveyance works.

Under the previous project delivery model, Project Co was responsible for the design, construction, commissioning, and process for performance for the plant. To help to expedite the project while also retaining the ability for competitive pricing of construction for the final delivery of the project, Metro Vancouver adjusted the project delivery model to retain a general contractor and a design consultant separately.

In accordance with this adjusted project delivery model, the project will be delivered in 2 phases: under Phase 1, the design consultant and the general contractor will work collaboratively with Metro Vancouver to advance the design and to develop a detailed execution plan, schedule and cost estimate to complete the project; Phase 2 will be the completion of all design, construction, and commissioning of the project.

DESIGN CONSULTANT SERVICES

Metro Vancouver staff have negotiated with AECOM to develop an amendment to their current “Owners Engineering” agreement allowing AECOM to assume all design responsibilities and obligations for the North Shore Wastewater Treatment Facility.

AECOM are in the process of building their team, familiarizing the team with the design completed by Project Co, and have started on detailed design of the structures on the critical path. It is anticipated that AECOM will be in a position to issue “Issued for Construction” drawings to support recommencement of construction works during Phase 1.

Having submitted all required documentation to the District of North Vancouver, AECOM is also now the Coordinating Registered Professional, the Discipline Engineer(s) of Record and Architect of Record, which are requirements of the BC Building Code.

GENERAL CONTRACTOR SERVICES

Following approval to award the Phase 1 contract to PCL by the GVS&DD Board February 25, 2022, Metro Vancouver entered into a formal agreement for construction management services with PCL in March 2022.

Transfer of the project site from Project Co to PCL occurred on April 1, 2022, whereby PCL assumes responsibility for site safety and security, environmental protection, limited maintenance on West 1st Street, dewatering operations, and site utilities.

In addition, Metro Vancouver is preparing the agreement necessary for issue of “Early Works Packages” to PCL. Early Works Packages will enable PCL to undertake specific construction work prior to Phase 2, to take advantage of the summer construction season and to deliver the project as quickly as possible and in the best interest of the region.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The current approved program budget for the North Shore Wastewater Treatment Plant Program is \$1.058B. The current approved budget for 2022 is \$267M. The project is working within the budget and current year cash flow.

As part of Phase 1, Metro Vancouver will work with AECOM and PCL to develop a plan to complete the project, including a revised project budget and schedule. The project will come to the Board in Q4 2022 with the revised project budget and schedule for approval.

CONCLUSION

Metro Vancouver has terminated its contract with Project Co and is moving forward with a new project delivery model to complete the North Shore Wastewater Treatment Plant Project. Under the new model, Metro Vancouver is working with the general contractor (PCL) to finalize construction and the design consultant (AECOM) to complete the design, to be the Engineer of Record, and to provide quality assurance services.

Design is underway by AECOM, and “Issued for Construction” drawings are being prepared which will be used to negotiate “Early Works Packages” upon commencement of PCL.

PCL has signed the Pre-Construction Services Agreement and has taken responsibility for safety and security of the Project Site as of April 1, 2022 when it was transferred from Project Co.

The project will come to the Board in Q4 2022 with the revised project budget and schedule for approval.

50459171