



RESORT MUNICIPALITY OF WHISTLER

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STAFF REPORT TO COUNCIL

PRESENTED: March 21, 2023 **REPORT:** 23-034
FROM: Infrastructure Services **FILE:** E320
SUBJECT: SEWER MAIN AND MANHOLE LINING PROJECT

RECOMMENDATION FROM THE CHIEF ADMINISTRATIVE OFFICER

That the recommendation of the General Manager of Infrastructure Services be endorsed.

RECOMMENDATION

That Council award the contract for the Sewer Main and Manhole Lining project in the amount of \$711,023.26 (exclusive of GST) to Mar-Tech Underground Services Ltd. in accordance with their tender proposal dated February 21, 2023.

PURPOSE OF REPORT

The purpose of this Report is to inform Council of the status of the Sewer Main and Manhole Lining Project and procurement process, and to request approval to proceed with the contract award for the construction work to implement the Sewer Main and Manhole Lining project in the amount of \$711,023.26 (exclusive of GST).

Information Report Administrative Report (Decision or Direction)

DISCUSSION

Background

Staff worked with MJP & Associates from 2016 through 2020 to complete a condition assessment of the sewer collections system within the Resort Municipality of Whistler (RMOW). The recommended repair method for the sewer main and manhole repairs is a trenchless rehabilitation technology. The trenchless rehabilitation technology includes the application of a corrosion resistant liner to the interior of the sewer mains and manholes that require treatment. The liner for the sewer mains consists of a cured in place pipe liner (CIPP), this liner is a resin infused felt liner that is steam cured in place. The lining of the manholes consists of a spray-on cementitious material.

The corrosion resistant liners will extend the life of the existing infrastructure, and improve flow characteristics in the sewer mains, thereby increasing the capacity of the sewer collections system. In addition, it is more cost effective than open trench repair, and will reduce the infiltration of groundwater into the sewer collections system. The reduction of infiltration into the sewer collections system is

important for the ongoing sewer collection system management program to mitigate peak flows at the Wastewater Treatment Plant during rainfall and rain on snow events.

The sewer main and manhole repair recommendations have been incorporated into the four-year sewer capital project plan to ensure that work is completed according to priority rating as recommended in the condition assessment completed by MJP & Associates. As part of the 2022 Sewer Main and Manhole Lining Program, the contractor lined the sewer trunk main along the Millar Creek Valley Trail (550 lineal metres). The scope of work for 2023 includes lining 920 lineal meters of sewer main and lining 12 sewer manholes throughout the Creekside neighborhood and along Village Gate Boulevard.

Analysis

TENDER RESULTS

The Invitation to Tender for the Sewer Main and Manhole Lining Project was posted on the RMOw bid opportunities page, and BC bid. The tender was advertised publicly between January 20, 2023, and February 21, 2023. One non-mandatory pre-tender site meeting was held for this project on November 15, 2022. The procurement process resulted in five tender submissions submitted to complete the work, with only two of the five tenderers submitting complete tender packages.

The three tender submissions that were not compliant with the Instructions to Tender (ITT) were Stray Cat Industrial Services Ltd., Superior City Services Ltd., and Drake Excavating (2016) Ltd.

- Stray Cat Industrial Services Ltd. were not compliant with the ITT Part II - 15.4 (c) – Tender Item Exclusions, and ITT Part II – 5.3.4S Proof of Certification.
- Superior City Services Ltd., and Drake Excavating (2016) Ltd. submissions were not compliant with ITT Part II – 5.3.4S Proof of Certification.

Staff recommend that the contract be awarded to the lowest bidder, Mar-Tech Underground Services Ltd., who also supplied all the required tender documents.

Results from five bidders are listed in Table 1 – Tenderers Submissions:

| TENDERER | | TOTAL PRICE \$ (EXCLUDING GST) | VARIANCE TO ENGINEER'S ESTIMATE (%) |
|----------|---|-----------------------------------|---|
| 1 | Mar-Tech Underground Services Ltd. | 711,023 | -41 |
| 2 | Stray Cat Industrial Services Ltd. | 882,279 | -27 |
| 3 | Superior City Services Ltd. | 912,284 | -24 |
| 4 | Insituform Technologies Limited | 1,094,113 | -9 |
| 5 | Drake Excavating (2016) Ltd. | 1,841,310 | 53 |
| | Engineer's Estimate (ISL Engineering and Land Services) | 1,206,480 | |

POLICY CONSIDERATIONS

Council Policy F-29: *Procurement Policy* and Administrative Procedure D-1: *Procurement* require Council approval for any contracts over the value of \$500,000.

Corporate Plan

The RMOW Corporate Plan is updated annually and articulates strategic direction for the organization. This section identifies how this report links to the plan.

Council Focus Areas

- Community Balance
*Effectively **balance resort and community needs** through deliberate planning, partnerships and investment*
- Climate Action
*Provide leadership to **accelerate climate action and environmental performance** across the community*
- Housing
*Advance strategic and innovative initiatives to enable and **deliver additional employee housing***
- Pandemic Recovery
*Leadership and support for **community and tourism recovery and sustainability** – priority focuses are where recovery needs intersect with other Council focus areas*
- Not Applicable

Corporate Goals

- Community character and mountain culture is reflected in municipal initiatives
- Municipal decision-making supports the effective stewardship of natural assets and ecological function
- Corporate policies and operations ensure continuous excellence in infrastructure, facility and program management
- A high level of accountability, transparency and community engagement is maintained
- Corporate financial health is optimized to ensure long-term community success
- A vibrant local economy and safe, resilient resort community is effectively reinforced by organizational activities
- Pandemic recovery

Community Vision and Official Community Plan

Goals, Objectives and Policies

Goal 12.2. of Whistler’s OCP is for Whistler’s sewer systems to meet all applicable standards and be maintained in a manner that is cost-effective, ensures reliability and minimizes or eliminates environmental impacts. The following objective and policies are supported by this project:

Objective 12.2.1. Maintain and develop sewer systems to service planned development in a manner that is compatible with environmental sensitivities of Whistler’s natural areas, meets regulatory obligations and sets standards consistent with Whistler’s move toward sustainability

Policy 12.2.1.1. Maintain a sewage collection and treatment system that transports and treats sufficient wastewater quantities for current and planned future development and ensures discharge quality meets or exceeds the Operational Certificate issued by the B.C. Ministry of Environment & Climate Change Strategy.

Policy 12.2.1.4. Implement water conservation and inflow/infiltration reduction measures before expanding the sewer collection and treatment capacity by conventional engineering design.

BUDGET CONSIDERATIONS

The current approved budget for the Sewer Main and Manhole Lining Project draws on the following project codes:

- E320-01 for sewer trunk main lining
- E320-02 for sewer manhole lining

The total, multi-year project budget is shown below in Table 2 – Total Project Budget.

The breakdown of the tender results per activity, and budget comparison are shown below in Table 3 – Mar-Tech Underground Services Ltd. Tender Results and Budget Comparison. Both components of the project tender are below the 2023 budget.

Table 2 – Total Project Budget

| BUDGET CODE NUMBER & NAME | 2023 BUDGET | 2024 BUDGET | 2025 BUDGET | 2026 BUDGET | TOTAL |
|---------------------------------------|-------------|-------------|-------------|-------------|---------------------|
| E320-01 Sewer Trunk Lining and Repair | \$1,100,000 | \$1,100,000 | \$4,500,000 | \$3,800,000 | \$10,500,000 |

| | | | | | |
|------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| E320-02 Manhole Repair | \$365,000 | \$550,000 | \$350,000 | \$450,000 | \$1,715,000 |
| TOTAL | \$1,465,000 | \$1,650,000 | \$4,850,000 | \$4,250,000 | |
| TOTAL BUDGET | | | | | \$12,215,000 |

Table 3 – Mar-Tech Underground Services Ltd. Tender Results and Budget Comparison

| BUDGET CODE NUMBER AND NAME | 2023 BUDGET | ENGINEERS COST ESTIMATE | MAR-TECH UNDERGROUND SERVICES LTD. | VARIANCE TENDER TO BUDGET (%) |
|---------------------------------------|--------------------|-------------------------|------------------------------------|-------------------------------|
| E320-01 Sewer Trunk Lining and Repair | \$1,100,000 | \$866,880 | \$547,373 | -50 |
| E320-02 Manhole Repair | \$365,000 | \$339,600 | \$163,650 | -55 |
| Total | \$1,465,000 | \$1,206,480 | \$711,023 | -51 |

TOTAL 2023 PROJECT COST OVERVIEW

Shown below in Table 4 is a summary of the estimated total project cost for the procurement, construction, and project management in 2023.

As shown in Table 1 Mar-Tech’s tender submission is 41 percent lower than the engineer’s pre-tender estimate, the following was considered in our evaluation and award recommendation:

- Considerable raw material price volatility was accounted for in the pre-tender estimate.
- Mar-tech has had a strong working relationship with RMOW over the past four years with multiple successful large contracts completed; Mar-tech’s recent historical performance record in the RMOW is excellent.

Table 4 – 2023 Estimated Total Project Cost and Total Project Budget

| BUDGET CODE NUMBER AND NAME | 2023 PROJECT COST – MAR-TECH UNDERGROUND SERVICES LTD. | 2023 PROJECT MANAGEMENT (PM) COST | TOTAL 2023 ESTIMATED PROJECT COST (TENDER PLUS PM) | TOTAL 2023 BUDGET |
|---------------------------------------|--|-----------------------------------|--|-------------------|
| E320-01 Sewer Trunk Lining and Repair | \$547,373 | \$50,000 | \$597,373 | \$1,100,000 |
| E320-02 Manhole Repair | \$163,650 | \$28,000 | \$191,650 | \$365,000 |

| | | | | |
|--------------|-------------------|-----------------|------------------|--------------------|
| Total | \$711, 023 | \$78,000 | \$789,023 | \$1,465,000 |
|--------------|-------------------|-----------------|------------------|--------------------|

LIL'WAT NATION & SQUAMISH NATION CONSIDERATIONS

The RMOW is committed to working with the Lil'wat People, known in their language as *L'il'wat7úl* and the Squamish People, known in their language as the *Skwxwú7mesh Úxwumixw* to create an enduring relationship; establish collaborative processes for Crown land planning; achieve mutual objectives; and enable participation in Whistler's resort economy. This section identifies areas where RMOW activities intersect with these relationships.

There are no specific considerations to include in this report.

COMMUNITY ENGAGEMENT

Level of community engagement commitment for this project:

Inform Consult Involve Collaborate Empower

Comment(s):

RMOW staff are actively engaged with the neighbourhood residents and public with regards to this project and its impact to the community through the Project website and Pique Newsmagazine advertisement.

REFERENCES

Appendix A – E320-01-02 Tender Award Recommendation

SUMMARY

Staff recommend Council award the contract for the Sewer Main and Manhole Lining Project in the amount of \$711, 023.26 (exclusive of GST) to Mar-Tech Underground Services Ltd. in accordance with their tender proposal dated February 21, 2023. This project will line 920 lineal meters of sewer trunk main, and 12 sewer manholes within the sewer collections system. This project is an important part of our on-going long-term sewer collections system asset management plan.

SIGN-OFFS

Written by:

Chelsey Roberts,
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Reviewed by:

James Hallisey,
General Manager Infrastructure Services

Virginia Cullen
Chief Administrative Officer