
STAFF REPORT TO WASTE MANAGEMENT COMMITTEE

FROM Ron Cooper, Director of Public Works
DATE April 8, 2020
SUBJECT Hanover/Walkerton Landfill Site Cell No.2 Expansion

RECOMMENDATION

THAT the Hanover/Walkerton Waste Management Committee approve the acceptance of the proposal from Cedarwell Excavating Inc. for the construction of Cell No. 2 at the Hanover/Walkerton Site.

BACKGROUND

The Environmental Compliance Approval issued in October 2012 provided approval for an expanded foot print of the Hanover/Walkerton Waste Disposal Site consisting of four cells with a leachate collection system. Cell No. 1 was constructed in 2013 with acceptance of waste commencing in January 2014.

Projections, dating back to the 2013 Annual Monitoring Report, provided an estimated life expectancy for Cell No. 1 of between 2020 and 2022 depending on volumes of waste. Monitoring reports and volume surveys are completed annually to update life expectancy projections. The most recent Annual Monitoring Report from 2018 utilizing a three-year average volume provided for 2.2 years remaining capacity for Cell No.1. This was further verified by the staking of the fill limits in the summer of 2019.

DISCUSSION

The requirement for construction of Cell No. 2 was identified in the 2020 Hanover/Walkerton landfill budget and approved by both Hanover and Brockton councils. Cobide Engineering Inc. (previously Genivar) completed the contract administration of Cell No. 1 and will be providing tendering and contract administration for Cell No. 2 as well. The tender was advertised in The Post and Walkerton Herald Times as well as on Bidding. One tender was received by the closing date of March 30, 2020 at 2:00 p.m.

The tender, from Cedarwell Excavating Ltd., was reviewed by Cobide Engineering Inc. for compliance and accuracy. Cedarwell successfully completed the original construction of Cell No. 1 in 2013. As the attached letter indicates, Cobide is recommending acceptance of the tender.

The tender stipulates completion by September 18, 2020 based on a start date of June 15.

FINANCIAL IMPLICATIONS

The construction estimate utilized for budgeting purposes was \$1,442,000 which included a contingency allowance of \$190,000. The tender by Cedarwell Excavating Inc. of \$1,152,919.50, including \$80,000 contingency allowance, is \$289,080.50 under the 2020 budget amount, excluding HST.

Engineering and contract administration for the project was budgeted at \$130,000. Cobide Engineering Inc. have provided approval in the amount of \$60,000 providing a further savings of \$70,000.

The 2020 Hanover/Walkerton landfill budget for the construction of Cell No. 2 is \$1,572,000 excluding HST. \$1,000,000 from the current landfill reserves, \$206,000 from each municipality to contribute a total of \$412,000, with the balance of \$160,000 from the 2020 user fee revenue. Based on the projected savings of \$359,000, it is recommended that these savings be transferred to the landfill reserve for future capital projects.

Respectfully submitted,

Ron Cooper
Director of Public Works



April 6, 2020

BY EMAIL ONLY

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**Subject: Tender Analysis
Hanover/Walkerton Landfill Site – Cell 2 Expansion Area
Town of Hanover
O/Ref.: 10027**

Dear Mr. Cooper:

On March 30, 2020, the Town of Hanover received one (1) tender for the Hanover/Walkerton Landfill Site project. We have reviewed the bid for completeness and arithmetic correctness. Based on this review, we found that the tender submitted were calculated correctly.

A summary of the tender that was received is provided in Table 1, below.

**Table 1
Tenders Received**

Rank	Contractor (Location)	Total Tender Amount
1	Cedarwell Excavating Ltd. (Hanover)	\$1,152,919.50 (excluding HST)
	Engineer's Estimate	\$1,186,020.00 (excluding HST)

Based on the above results, the tender submitted by Cedarwell Excavating Ltd. was approximately **\$33,100.50** below our Engineer's Estimate.

Since Cedarwell Excavating Ltd. successfully completed the original construction of Cell 1 in 2013, we are confident that they have the knowledge and expertise to complete the Cell 2 expansion project within budget and by the stipulated completion date of September 18th, 2020.

If you have any questions regarding the above, please contact the undersigned at 519-506-5959, extension 102.

Yours truly,

Stephen J. Cobean, P.Eng., FEC
Director

Encl.

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Table 1
Hanover/Walkerton Landfill Site
Cell 2 Expansion Area
Tender Analysis

Item	Preliminary Cost Estimate Summary	Engineer Estimate	Cedarwell Excavating Ltd.				
1.0	General Construction Items	\$60,000.00	\$18,425.00				
2.0	Cell 2 Construction	\$1,048,020.00	\$1,054,494.50				
3.0	Contingency Allowance	\$80,000.00	\$80,000.00				
	Sub-total	\$1,188,020.00	\$1,152,919.50				
	13% HST	\$154,152.60	\$149,879.54				
	Total Project Cost Estimate	\$1,342,172.60	\$1,302,799.04				
1.0	General Construction Items	Quantity	Unit	Unit Price	Total	Unit Price	Total
1.1	Bonding	100%	LS	\$50,000.00	\$50,000.00	\$10,425.00	\$10,425.00
1.2	Mobilization/ Demobilization	100%	LS	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00
	Total Section 1.0				\$60,000.00		\$18,425.00
2.0	Removals	Quantity	Unit	Unit Price	Total	Unit Price	Total
2.1	Topsoil Removal - 400mm Thick	9,540	m ²	\$ 2.00	\$19,080.00	\$1.10	\$10,494.00
2.2	Earth Excavation - Cell 2 Area	2,745	m ³	\$ 7.00	\$19,215.00	\$4.50	\$12,352.50
2.3	Supply and Place Geotextile (2 layers)	19,300	m ²	\$ 5.00	\$96,500.00	\$5.10	\$98,430.00
2.4	Supply and Place Engineered Clay Liner - 0.75m Thick In-Place	12,000	m ²	\$ 30.00	\$360,000.00	\$32.00	\$384,000.00
2.5	Supply and Place Perimeter Berms	735	m ³	\$ 40.00	\$29,400.00	\$32.00	\$23,520.00
2.6	Supply and Place HDPE Liner (60 mil) - total coverage area	9,885	m ²	\$ 15.00	\$148,275.00	\$13.05	\$128,999.25
2.7	Header Pipe	75	m	\$ 140.00	\$10,500.00	\$300.00	\$22,500.00
2.8	Expose and Weld Existing Geomembrane Liner to New Geomembrane Liner	120	m	\$ 150.00	\$18,000.00	\$225.00	\$27,000.00
2.9	Drainage Layer (clear stone) - 500mm Thick	7,930	tonne	\$ 20.00	\$158,600.00	\$22.00	\$174,460.00
2.10	Supply and Place 200mm dia. Perforated HDPE Leachate Pipe	345	m	\$ 125.00	\$43,125.00	\$125.00	\$43,125.00
2.11	Supply and Place 200mm HDPE Cleanout Pipe	3	Each	\$ 1,900.00	\$5,700.00	\$2,000.00	\$6,000.00
2.12	Supply and Place HDPE Pipe Boot	5	Each	\$ 2,000.00	\$10,000.00	\$900.00	\$4,500.00
2.13	Supply and Place Sand Cover	6,100	tonne	\$ 10.00	\$61,000.00	\$12.00	\$73,200.00
2.14	Supply and Place Granular 'B'	585	tonne	\$ 12.00	\$7,020.00	\$12.00	\$7,020.00
2.15	Supply and Place Granular 'A'	265	tonne	\$ 18.00	\$4,770.00	\$13.75	\$3,643.75
2.16	Supply and Install 600mm HDPE Culvert	35	each	\$ 300.00	\$10,500.00	\$250.00	\$8,750.00
2.17	Place Topsoil from on-site stockpile on berms	710	m ²	\$ 4.00	\$2,840.00	\$6.00	\$5,680.00
2.18	Supply and Place Seed and Mulch	710	m ²	\$ 6.50	\$4,615.00	\$2.50	\$1,775.00
2.19	Supply and Place Erosion Control Blanket (Provisional)	710	m ²	\$ 8.00	\$5,680.00	\$4.50	\$3,195.00
2.20	Supply and Place Pipe Insulation (Provisional)	240	m ²	\$ 110.00	\$26,400.00	\$40.00	\$9,600.00
2.21	Supply, Install and Maintain Light Duty Fence (Provisional)	300	m	\$ 15.00	\$4,500.00	\$20.00	\$6,000.00
	Total Section 2.0				\$1,046,020.00		\$1,054,494.50