



G R E E R
G A L L O W A Y
C O N S U L T I N G
E N G I N E E R S

1620 Wallbridge Loyalist Road
R.R. #5
Belleville, Ontario
K8N 4Z5

Telephone
(613) 966-3068

Facsimile
(613) 966-3087

E-mail
Belleville@greergalloway.com



Consulting
Engineers
of Ontario



Professional Engineers
Ontario

November 30, 2022

Juan Rojas, P.Eng.
Director of Engineering
City of Kawartha Lakes
12 Peel Street
P.O. Box 9000
Lindsay, On
K9V 5R8

Re: Workplan and budget for Omemee Wastewater Facility Upgrades

GGG Project Number 2237771

Attention: Mr. Rojas,

Further to our workplan and budget dated February 1, 2018, we hereby provide an updated scope of work and budget for your consideration.

We consider that most of the Part 1, preliminary design has been completed as part of the recently completed Class Environmental Assessment (EA). The EA outlines the following upgrades to the system:

- Utilize the existing spray irrigation system during warmer periods, with a slightly reduced spray area (no design work required).
- Replace the distribution valve system for dosing the LSSD beds.
- New Mechanical screen and Dissolved Air Floatation (DAF) system to replace existing fixed screens and remove fine particles prior to bed dosing.
- Building for the new equipment, including civil, structural, electrical (lighting), mechanical (HVAC).
- Reconfigure wetwell/pumping chambers. Build additional chambers.
- Pumping system upgrades/reconfiguration.
- Storage tank for DAF and screened solids.
- Electrical Power, Instrumentation, and Control (control specifications and integration by City's integrator, not included in this proposal cost).

Using the original "Part 2 Design and Tender" workplan as a template, we propose the following:

- Initiation meeting with operations team, and site review by electrical, mechanical, and project manager.
- Topographic Survey and Geotechnical Study for the new building area.
- Project Management including review meetings.
- Preliminary design drawings, control narrative, and construction cost estimate (50% drawings).
- Prepare application for ECA.



- Detailed design drawings and equipment specifications (90% drawings).
- Final design drawings and tender specifications (100% drawings).
- Tender period assistance including site meeting, issue addenda, recommendation of award.

The estimated fee for the work above is \$141,480 plus H.S.T., as broken down in the attached time/task matrix.

Construction Management:

- Contract Administration including contract execution, shop drawing review, respond to RFIs, issue COs, PCs, construction review meetings – based on 20 weeks.
- Site inspection, based on 16 weeks at 40 hours per week.
- Start-up/commissioning assistance.
- As-constructed drawings and equipment manuals.
- Warranty period assistance.


The estimated fee for the work above is \$97,750 plus H.S.T., as broken down in the attached time/task matrix. Please note this is based on a 16-week construction period, with 20 weeks of Contract Administration. Actual fees will reflect the time spent and length of the construction period.

Please let us know if you would like to discuss our proposal, or if you have any questions.

Thank you,

Yours truly,
Tony Guerrero, P.Eng.

**GREER GALLOWAY
CONSULTING ENGINEERS**
tguerrera@greergalloway.com

Omeme WWTf Design		Project Manager Tony Guerrero	Curti Clark Architectural Technologist	Senior Civil Engineer Matt McIntosh	Senior Electrical Engineer Steve Lane	Mechanical Engineer Jeanorth Sinnakandu	Structural Engineer Jaime Maitland	Site Inspector Bim McFall	Technical Staff/CAD	 COST BREAKDOWN			
		\$ 1,480	\$ 640	\$ 1,360	\$ 1,320	\$ 800	\$ 1,120	\$ 600	\$ 560	Labour	Disburs.	TOTAL	Total Hrs
		per diem	per diem	per diem	per diem	per diem	per diem	per diem	per diem				
		\$ 185	\$ 80	\$ 170	\$ 165	\$ 100	\$ 140	\$ 75	\$ 70				
1.00	Project Management, Coordination, Meetings, Field Investigations												
1.01	Initiation meeting with operations team, and site review by electrical, mechanical, and project manager.	8.00			8.00	8.00				\$ 3,600	\$ 200	\$ 3,800	24.00
1.02	Topographic Survey and Geotechnical Study for the new building area.	8.00				12.00			24.00	\$ 4,360	\$ 6,000	\$ 10,360	44.00
1.03	Project Management through design phases including review meetings.	40.00				16.00				\$ 9,000	\$ 500	\$ 9,500	56.00
										\$ -	\$ -	\$ -	0.00
2.00	Preliminary Design												
1.04	Preliminary design drawings, control narrative, and construction cost estimate (50% drawings).	50.00	40.00	20.00	40.00	80.00	30.00		120.00	\$ 43,050	\$ 500	\$ 43,550	380.00
1.05	MECP discussions and Prepare application for ECA.	8.00				16.00			8.00	\$ 3,640	\$ 100	\$ 3,740	32.00
3.00	Detailed Design												
1.06	Detailed design drawings and equipment specifications (90% drawings).	50.00	40.00	20.00	40.00	80.00	30.00		120.00	\$ 43,050	\$ 200	\$ 43,250	380.00
1.07	Final design drawings and tender specifications (100% drawings).	40.00	20.00	5.00	10.00	30.00	10.00		60.00	\$ 20,100	\$ 200	\$ 20,300	175.00
4.00	Tender Period Assistance												
1.08	Tender period assistance including site meeting, issue addenda, recommendation of award.	12.00	4.00		4.00	20.00	2.00		20.00	\$ 6,880	\$ 100	\$ 6,980	62.00
5.00	Construction Contract Administration, Site Inspection, Post Construction Services												
1.11	Contract Administration including contract execution, shop drawing review, respond to RFIs, issue CO, PC, construction review meetings – based on 20 weeks.	120.00	8.00	4.00	16.00	120.00	4.00		16.00	\$ 39,840	\$ -	\$ 39,840	288.00
1.12	Site inspection, based on 16 weeks at 40 hours per week.							640.00		\$ 48,000	\$ -	\$ 48,000	640.00
1.13	Start-up/commissioning assistance.	8.00			4.00	8.00				\$ 2,940	\$ 200	\$ 3,140	20.00
1.14	As-constructed drawings and equipment manuals.	4.00	4.00		2.00	8.00		4.00	16.00	\$ 3,610	\$ 200	\$ 3,810	38.00
1.15	Warranty period assistance.	8.00				8.00		4.00	4.00	\$ 2,860	\$ 100	\$ 2,960	24.00
GRAND TOTAL		356.00	116.00	49.00	124.00	406.00	76.00	648.00	388.00	\$ 230,930	\$ 8,300	\$ 239,230	2163

Note: Prices do not include HST