



**TOWNSHIP OF SOUTHGATE**

**REQUEST FOR PROPOSAL  
WASTEWATER TREATMENT FACILITY EXPANSION  
DUNDALK, ONTARIO**

**ADDENDUM NO. 1  
(to the RFP Documents)**

This Addendum shall form part of the Request for Proposal (RFP) Documents. The Proponent shall sign and seal this Addendum and submit it as part of their proposal documents acknowledging receipt and understanding of the addendum. It will be assumed by the Owner that all of these provisions are included in the tender price. This Addendum has been posted electronically to the Township Website.

1. **The CLOSING DATE for receipt of the Request for Proposal (RFP) submissions has been extended:**

**Refer to RFP Cover and Item 3.0 Instruction To Respondents, page 3 of 17 as follows:**

*“Electronic submissions clearly marked “Proposal for The Dundalk Wastewater Treatment Facility Expansion” must be sent via email to: [tenders@southgate.ca](mailto:tenders@southgate.ca) Electronic submissions are required in pdf format, under 10 MB in size. The submission closing date is October 19, 2021 at 2:00 p.m.”*

**This submission closing date will now be changed to Wednesday, November 10<sup>th</sup>, 2021 at 2:00:59 p.m.**

2. **RFP Questions & Answers:**

**Question No. 1:**

*Our understanding is that the existing facility is a non-aerated facultative lagoon operating as a continuous discharge except when ice cover period occurs? Is there any restriction in ECA for discharging all year long in the future expansion plan? Please confirm.*

**Answer No. 1:**

**The existing facility is a non-aerated facultative lagoon operating as continuous discharge except when effluent parameter concentration criteria cannot be met. This is not specifically related to ice cover. The same restrictions will apply for the future expansion.**

**Question No. 2:**

*Are there any sampling data in-between lagoon cells especially for BOD and ammonia nitrogen?*

**Answer No. 2:**

**There is no sampling data available between lagoon cells.**

**Question No. 3:**

*How frequently the lagoon cells have been cleaned from accumulated sludge?*

**Answer No. 3:**

**The lagoon cells have never been cleaned from accumulated sludge. A sludge survey was completed this year and is attached for reference.**

**Question No. 4:**

*Can you please provide lagoon depths (i.e. maximum levels)?*

**Answer No. 4:**

**Cell No.1**

Bottom: 507.50m  
Operating Water Level: 509.30m  
Volume: 57,600m<sup>3</sup>  
Depth: 1.8m

**Cell No.2**

Bottom: 506.15m  
Operating Water Level: 507.95m  
Volume: 57,600m<sup>3</sup>  
Depth: 1.8m

**Cell No.3**

Bottom: 504.67m  
Operating Water Level: 506.47m  
Volume: 46,660m<sup>3</sup>  
Depth: 1.8m

**Cell No.4**

Bottom: 504.67m  
Operating Water Level: 506.47m  
Volume: 46,660m<sup>3</sup>  
Depth: 1.8m

**Question No. 5:**

*Please provide site elevation?*

**Answer No. 5:**

**The site elevation ranges, however is approximately 507.0 – 505.0masl.**

**Question No. 6:**

*On table 4 for Feb TAN is 11.6 mg/L and FN is 0.045 mg/L whereas for Mar and Apr, TAN are 7.7 - 8.3 mg/L and FN are 0.075 – 0.07 mg/L. Is the influent pH changing significantly due to l&l or just an excess alum dosing due to TSS spikes?*

**Answer No. 6:**

**Batch Alum dosing into the cells has historically been completed upstream of the effluent as required to reduce Phosphorus levels to limit algae growth and reduce pH Levels.**

**Question No. 7:**

*Can you please provide dimensions of the post aeration unit and any other relevant process design information associated with this process unit, like aeration type coarse bubble, fine bubble, ...?*

**Answer No. 7:**

The post aeration cell a fine bubble aeration system supplied by two positive displacement blowers (1 standby) each with a capacity of 235L/s at 35kPa. The cell is approximately 100 x 45m and has an operation depth of 2.1m. Refer to attached drawings for additional information.

**Question No. 8:**

*Can you please share information (studies) on existing filters and if the intent is to keep them in operation, or replace them?*

- *Filter Bed Expansion Special Study*
- *Filter Visual Backwash Observation Special Study*
- *The Influence of Seasonal Changes in Temperature on Lagoon Performance*
- *Dundalk Lagoons – Proactive Operational Monitoring*
- *Dundalk Lagoons Filters Capacity and Performance Evaluation*
- *Filter Optimization Special Study*

**Answer No. 8:**

Refer to attached.

**Question No. 9:**

*Can you please provide AutoCad drawing for Figure 1 – WWTF Flow Process Schematic?*

**Answer No. 9:**

Refer to attached.

**3. Expected Influent Concentrations:**

Based on questions received and to ensure all proposals will be based on the same parameters, the expected influent concentrations have been established as follows.

<b>Parameter</b>	<b>Expected Future Influent Concentrations</b>
Biological Oxygen Demand (mg/L)	140
Total Suspended Solids (mg/L)	210
Total Phosphorus (mg/L)	3.4
Total Kjeldahl Nitrogen (mg/L)	33

**4. Questions And Clarification Deadline:**

**Questions/Clarifications** shall be submitted by email to Dustin Lyttle [dlyttle@tritoneng.on.ca](mailto:dlyttle@tritoneng.on.ca) and copied to Jim Ellis [jellis@southgate.ca](mailto:jellis@southgate.ca) no later than Wednesday, October 27<sup>th</sup>, 2021.

*Please Note: All amendments and modifications will be posted on the Township's website in the form of an Addendum. It is the responsibility of the Proponent to check the website.*

Except as to the extent that they are amended by the foregoing, all the terms and conditions of the Proponent shall remain in full effect.

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