REQUEST FOR PROPOSAL "RFP" NO. PS20161667
Water Quality Consulting & Stormwater Management Planning For the Vancouver Landfill

QUESTIONS AND ANSWERS NO. 3

ISSUED ON May 16, 2017

Q1	For Part B Section 4.4.1.4 b). Confirm the infiltration capacity of the Dredge Pond through sediment analysis and groundwater flow modelling (using the model files from the 2013 HR Task G): As the scope of work regarding the sediment sampling and lab testing program is not defined, will the City cover the disbursements for sampling and lab testing based on consultant recommendations?
A1	**Proponents are to include a draft sampling plan in their proposals, including the associated costs for sampling and lab testing. The sampling plan can be refined following contract award, and the associated costs adjusted, in consultation with City Staff.**
Q2	For Part B Section 4.2.3.3 f) Propose, implement, and evaluate a methodology for ditch maintenance using GPS control with maintenance performed by the Landfill Services Contractor: It is assumed that the maintenance program implementation by the Landfill Services Contractor will cover the entire perimeter double ditch network. As such, is the consultant expected to track, inspect or supervise the maintenance program implementation from start to finish as part of the evaluation task? If so, from previous experiences, how many days will it take the Landfill Services Contractor to completely clean the dual ditch system?
A2	**The Consultant is expected to supervise, inspect and evaluate a proposed maintenance program following as assessment of the current ditch inspection and maintenance programs as required by 4.2.3.3 e).** **The scope of work for ditch maintenance as taken from RFP PS20140333 for Landfill Services is as follows:** ***'8.0 Ditch Maintenance*** ***8.1 Leachate is produced by water percolating through waste. Leachate is managed by a system of two parallel ditches surrounding the Landfill. The inner ditch collects leachate, and the outer ditch contains clean surface water from outside the Landfill (collectively called the perimeter ditches). By keeping the water level in the outer ditch higher than in the inner ditch, an***

	inward hydraulic gradient is formed, preventing the leachate from migrating out of the Landfill. The Landfill also has internal leachate ditches, which provide a preferential pathway for leachate to move laterally toward the inner Leachate collection ditch. See Part D – Schedule D titled Site Plan – Ditch Cleaning for a diagram of the Leachate ditches. ***8.2 Over time, sediment and vegetation build up throughout the ditch system (inner, outer and internal ditches). The Supplier, at the direction of the City Engineer or designate, is required to maintain this system in good working order by removing excess sediment and vegetation from the outer ditch (surface water) using an excavator and placing that material on the berm between the inner and outer ditches. It is the responsibility of the Supplier to ensure that the material on the berm is leveled appropriately such that Grass Mowing (See Section 9.0) is not hindered.*** ***8.3 Material removed from inner ditches (leachate) must be placed on the ground within the Landfill (not the berm), unless it is not possible due to physical location or feasible to blend in the ditch material with berms or existing topography of the Landfill. In these cases, the ditch material will be moved as it is generated to another part of the Landfill as directed by the City Engineer or designate at Force Account Rates.*** ***8.4 The ditches are to be cleaned on a four (4) year cycle with ¼ of the length cleaned annually. Segments to be cleaned will be approved by the City Engineer or designate prior to commencing the work.*** ***8.5 Ditch grading, a process where additional ditch material is removed to grades specified by the City Engineer or designate, is to be verified by the Supplier using precision equipment such as a laser level.*** ***8.6 Blackberries or other invasive species within riprap ditches may need to be removed to ensure proper drainage of stormwater and leachate on as needed basis. Care must be taken to not damage the geomembrane liner in ditches within closed areas.*** ***8.7 All significant ditch work shall be approved by the City Engineer prior to proceeding.'*** **'Site Plan – Ditch Cleaning' has been added to the FTP site** **Ditch cleaning by the Landfill Services Contractor is typically performed in late Sept / early Oct, and over a period of 2-weeks (also performing other contract tasks during that time). 2017 corresponds to Year 4 according to the schedule in the Site Plan.**
Q3	For Part B Section 4.4.1.7 Establish capacity required for off-site discharge, and related requirements: Relative to off-site discharge, this task refers to "related requirements". What specifically is the City referring to?

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QUESTIONS AND ANSWERS NO. 2

A3	**'Related requirements' includes the following:** - **The timeframe in which the capacity will be required.** - **Any criteria and conditions that must be met to allow for off-site discharge, such as regulatory requirements, stakeholder engagement & approvals, etc.**
Q4	For Part B Section 4.4.2.2: Does Delta own the rights to the Delta Watershed Model developed by GMV Engineering, and can we therefore use that model directly?
A4	**Delta does not own the rights to the Delta Watershed Model.**
Q5	For Part B 4.5.4 Manage system installation including commissioning: As there is no reference to the procurement process (tender or otherwise) should the proponent assume the City will cover all tasks related to the procurement process and capital work?
A5	**The City will secure equipment supply and installation services.**
Q6	Part B 6.7 a Identifies the following deliverable that is not described in Section 4.6. 'Technical Memorandum with recommendations related to the Environmental Laboratory Services draft scope of work': Should the Consultant include this as a sub-task within the scope or work for Part 6 or can we disregard this deliverable?
A6	**Proponents can disregard this deliverable.**