

REQUEST FOR EXPRESSIONS OF INTEREST "RFEOI" PS20200442

GARBAGE CART MANAGEMENT SOLUTION

QUESTIONS AND ANSWERS NO. 1

ISSUED ON MAY 12, 2020

Q1	How many personnel will be interacting with the software, and how would they be interacting with the software?
A1	<p>At least 10-15 staff will be regularly looking up information while they are in the field (and they would be making occasional edits and entries into the system).</p> <p>40-50 staff would use the software only rarely while they are outside the office.</p> <p>Half of the desktop users would use the software on a casual basis.</p> <p>Approximately 50 drivers will be accessing geographical locations, addresses, and certain collection-related attributes, for purposes of routing.</p>
Q2	In regard to Key Constraint 1: "Must incorporate the City's addressing model (both civic- and block-based)": please provide an example of the City's addressing model, or where additional platform on the model can be found?
A2	<p><u>Civic Addresses</u></p> <p>The City's addressing model is complex, because the City has several addressing systems that must inter-operate, and external addressing providers are (at best) 65-75% accurate.</p> <p>The City's addressing/property model allows for multiple addresses at a property and also allows for addresses to be further divided, to distinguish addresses by building. The City maintains an address hierarchy by providing each address record with a parent ID and top parent ID.</p> <p>Key points to note:</p> <ol style="list-style-type: none"> (1) A property may have several addresses (2) A 'MAIN' address can have several 'SECONDARY' addresses associated to it (3) A property will normally have only one 'MAIN' address, but will sometimes have multiple 'MAIN' addresses (4) Addresses may be further divided between the buildings on a property (where a given building may have several addresses) (5) Each address links back to a property (a Roll Number and Plan Number),

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and in the case of stratified properties, links back to an individual strata parcel.

- (6) When properties are divided or amalgamated, there will also be changes to the assignment of addresses at the property. Addresses can be reassigned, retired, or brought back from retirement.
- (7) Because addresses can be retired and then later brought back into service (i.e. recycled), the City also maintains the status of each address (e.g. active, historical, or proposed).
- (8) Addresses can also contain unit numbers (i.e. suite numbers or unit numbers within a townhouse complex), with one unit number per record.
- (9) Some of the addresses have an associated name (such as 'STANLEY PARK').
- (10) Address records also contain foreign keys to other City systems.

'Hundred Block' Addresses

Examples of 'Block' addresses include 300 HASTINGS ST, 400 CAMBIE ST, and 0 VICTORIA ST. A 'Hundred Block' record must indicate 'even' or 'odd', in order to specify a particular block face.

A basic understanding of the data can be achieved through the City's OpenData portal:

<https://opendata.vancouver.ca/pages/home/>

In particular, the Property Tax Report shows the multitude of addresses that may be associated to an individual property - and shows the association or a property or strata lot to Roll Number and Plan Number. For strata properties, each individual strata lot has its own Roll Number while the larger property is described by Coordinate (the first 8 characters of the Roll:

<https://opendata.vancouver.ca/explore/dataset/property-tax-report/information/>

A simpler association of MAIN address to property can be found in the following link (note: this is a different address format than is used in the Property Tax Report):

<https://opendata.vancouver.ca/explore/dataset/property-addresses/information/>

'Hundred Block' information can be found:

<https://opendata.vancouver.ca/explore/dataset/public-streets/information/>

<https://opendata.vancouver.ca/explore/dataset/non-city-streets/information/>