

CARIP/Carbon Neutral Progress Report Reporting Year 2014

Supporting Documentation Contracted Emissions Template

LOCAL GOVERNMENT
City of Richmond 6911 No. 3 Road Richmond, BC V6Y 2C1
PROJECT DESIGNATE
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RATIONALE
<p>An estimation methodology for hired equipment contractor emissions is being utilized for 2014 since actual emissions for some contracts over \$25,000 have not provided fuel usage values.</p> <p>The City has identified four main contract areas that deliver traditional municipal services:</p> <ol style="list-style-type: none">1. Cascades Recovery Inc. and BFI provide recycling depot container collection and recycling services2. Sierra Waste Services provide residential solid waste and recycling services;3. BFI Canada Waste Management provides waste and recycling collection services at City facilities.4. Individual Hired Equipment. <p>Contractor emissions associated with the delivery of traditional municipal services by Sierra Waste Services and BFI Canada Waste Management have been included in our mobile fleet emissions reporting spreadsheet, as fuel usage and vehicle type information was provided for 2014. Contractor emissions associated with the delivery of services by Cascades Recovery and Hired Equipment were estimated by from total hours driven.</p> <p>The hired equipment contracted emissions, with the exception of equipment used outside of the defined traditional service boundaries or for construction rather than maintenance activities, is listed in the table below by traditional service area.</p> <p>Option 3 is the estimation methodology used:</p> <ol style="list-style-type: none">1. Hired equipment records sorted to exclude out of scope contracts;2. City equipment operating records assessed to determine average consumption factors in litres per hour or kilometers driven for each equipment family;3. Consumption factors used to estimated fuel consumption for hired equipment;4. Environment Canada emissions factors applied to calculate GHG emissions.

CONTRACTED EMISSIONS	
Option 3: Vehicle/Equipment Type and Kilometers or Hours of Usage	
Traditional Service Area	Estimated Annual GHGs (tonnes)
Drinking, Storm and Wastewater	192
Solid Waste Collection, Transportation and Diversion	3.0
Roads and Traffic Operations	55
Parks, Recreation, Arts, and Cultural Services	60
Corporate Operations	2.0
Fire Protection	—
Total	312