### Multi-Material Stewardship Western

# **Greenhouse Gas Reporting Webinar**

#### Depot, Curbside, Multi-family Collection & Post-Collection Reporting

November 28, 2022





# Agenda

- Webcast Zoom
- Introduction: What, Why, When, Where
- What's new for 2022
- GHG reporting for depot programs
- GHG reporting for curbside & multi-family programs
- GHG reporting for post-collection
- Q&A
- Resources and Contacts



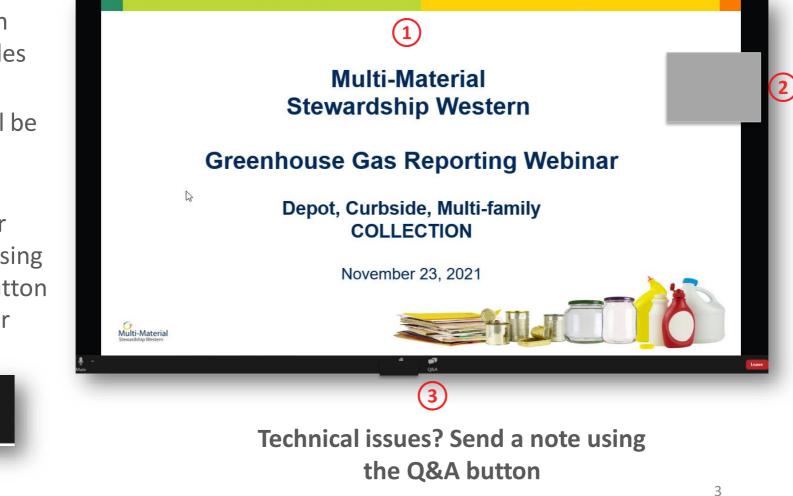
# Webcast Information

Main screen (1)displays slides

2 Speaker will be on video

Submit your (3) questions using the Q&A button in toggle bar

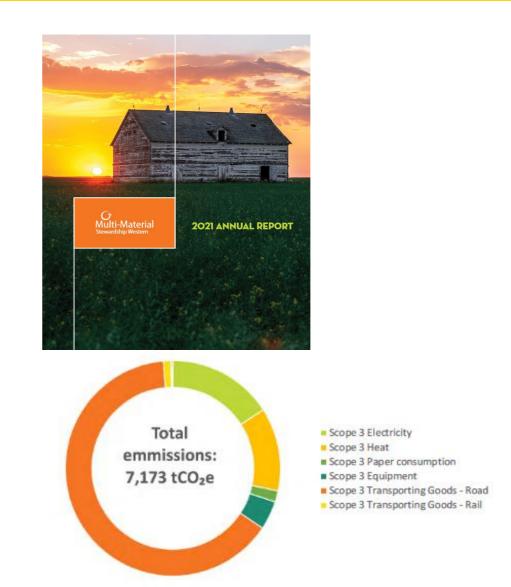
0&A



:i-Materia Stewardship Western

# Introduction

- Thank you!
  - Another successful year of GHG reporting
  - See 2021 annual report for summary
- 2022 Reporting
  - Review some updates/improvements
  - Submit data to WeRecyle Portal by January 31, 2023
- Post-Collection webinar included
  - Materials on website GHG page



## What is GHG?

- Compound gases that trap heat in the atmosphere
- GHG emissions are generated from the burning of fossil fuels across a variety of activities associated with the operation of your residential recycling program
- Also includes the emissions associated with the manufacturing of paper products (flyers, brochures, utility bill inserts, etc.) which may be used in the promotion and education portion of your residential recycling program



# Why GHG Reporting?

- Ministry of Environment's Waste Packaging and Paper Stewardship Regulation
- Data enables calculation of GHG emissions associated with the collection and processing of residential waste packaging and paper (WPP) in Saskatchewan, as outlined in the Waste Packaging and Paper Stewardship Plan (See section 4.6.2)
- GHG is a reporting obligation for collectors under the Services Agreement Section 7.2(b)



## When are reports required?

- Annual schedule unchanged
  - Data can be submitted at frequency of your choosing
  - Minimum once yearly
- GHG report is due by January 31, 2023 and will include GHG emissions data from January 1, 2022 to December 31, 2022





### Where Do You Report GHG?

| to the WeRecycle Portal!<br>Welcome |
|-------------------------------------|
|                                     |
| CIRCULAR                            |
| Suser ID                            |
| Password                            |
| Did you forget your password?       |
| Login                               |

\*Please refer to our GHG Portal User Guide for more information on submitting your GHG report via the WeRecycle Portal.

# What's new for 2022

#### • Headings More User Friendly

• Intuitive process to allocate own share of GHG's from data provided

| Service Type | Emission Type 📼                   | % attributed to MMSW | Unit of<br>Measure | Qty. attributed to MMSW | Unit of<br>Measure | Originating Site $\nabla_{\!\mathbf{x}}$ |      |
|--------------|-----------------------------------|----------------------|--------------------|-------------------------|--------------------|--|------|
| GHG          | Vehicle (Passenger) - Propane     | 100                  | Percentage         | 550                     | Litres             | Test City SK S4P 3C8                     | C1 🖬 |
| GHG          | Vehicle (Passenger) - Natural Gas |                      | Percentage         |                         | Litres             |  | Q 🗑  |
| GHG          | Vehicle (Passenger) - Gasoline    |                      | Percentage         |                         | Litres             |  | Q 🗑  |
|              |                                   |                      |                    |                         |                    |  | Canc |

# What's new for 2022

- Emissions Categories Grouped
  - List of GHG emissions data categories are grouped by most commonly used/reported

| 8 <b>&lt;</b> 🏠          |                                     | Key in Your              | Report V                |                    |                    |  | (      |
|--------------------------|-------------------------------------|--------------------------|-------------------------|--------------------|--------------------|--|--------|
| Test User   Test City SH | (                                   | Test Envi                | ronment                 |                    |                    | 0  |        |
| Select a                 | Material<br>Quantities              |                          | Report<br>Submission    | n                  |                    | Multi-N<br>Stewardshi                    |        |
|                          |                                     |                          |                         |                    |                    |  |        |
| Material Quan            | itities                             |                          |                         |                    |                    |  |        |
| More Information         |                                     |                          |                         |                    |                    |  |        |
|                          | OUSE GAS - CURBSIDE (4700002582)    |                          |                         |                    |                    |  |        |
| Document No: 2021        |                                     | Add Another Document     | New Originating S       | Site Sa            | ve for Later       | Submit F                                 | Report |
| *Document No:            | *Reporting Period Start (D *Rep     | oorting Period End (D Re | ference:                | Comments:          |                    |  |        |
| 2021GHG                  | January 1, 2020 🛅 De                | cember 31, 2020 🛅 C      | ptional                 | Optional           |                    |  |        |
| *Originating Site:       |                                     |                          |                         |                    |                    |  |        |
| Test City SK   123456    | 67 main ave , Regina , SK , S4P 3C8 | 8 Q                      |                         |                    |                    |  |        |
| More Information         |                                     |                          |                         |                    |                    |  |        |
| Service Type             | Emission Type                       | % attributed to MMSW     | Unit of<br>Measure Qty. | attributed to MMSW | Unit of<br>Measure | Originating Site $\nabla_{\!\mathbf{x}}$ |        |
| GHG                      | Vehicle (Passenger) - Propane       | 100                      | Percentage 55           | 0                  | Litres             | Test City SK S4P 3C8                     | Q 🗐    |
| 0110                     | Vehicle (Passenger) - Natural Gas   |                          | Percentage              |                    | Litres             |  | Q 🗑    |
| GHG                      |                                     |                          |                         |                    |                    |  |        |
| GHG                      | Vehicle (Passenger) - Gasoline      |                          | Percentage              |                    | Litres             |  | G 🗑    |

# What's new for 2022

- Reporting Reminders Quick Reference
  - Make sure you have correct login/password

greenhousegas@multimaterialsw.ca

- Make sure to calculate allocation from sub-contractor supplied data
- Review last year's reports



MMSW is providing guidance on **three common issues** to support Haulers and Collectors providing accurate 2022 GHG information by January 31, 2023. Each topic includes links to the online Knowledge Base for more detailed information. Contact us for further assistance: <u>greenhousegas@multimaterialsw.ca</u>

#### Portal Login Credentials

| Velo | to the WeR  |   |  |
|------|---|---|--|
|      | CIRCULAR  |   |  |
|      | 8 User ID   |   |  |
|      | S Password  | ٢ |  |
|      | Did you forget your persword?                     |   |  |
|      | Login   |   |  |
|      | New to the WeRecycle Portal?<br>Create an Account |   |  |

Has your GHG contact changed? Do you know your username to log into the <u>WeRecycle Portal</u>? You can reset your password on the Portal main page using the 'Forgot Password' link. Find more information about contact management <u>here</u>

#### Allocation %

Please confirm with your subcontractor(s) whether their supplied GHG data has had the allocation percentage applied to the quantity field. Information about the GHG Material Quantities table is available <u>here</u>. When reporting on an emission type, the % allocated should be reflected in the quantity field. *Example:* 1000L of Propane was used and 75% of that propane is attributed to your WPP program. 750L would be entered in the 'Qty. attributed to MMSW' field.

| Service Type | Emission Type 🛛 🔻             | % attributed to MMSW | Unit of Measure | Qty. attributed to<br>MMSW | Unit of Measure | Originating Site 🍞 |     |
|--------------|-------------------------------|----------------------|-----------------|----------------------------|-----------------|--------------------|-----|
| GHG          | Vehicle (Passenger) - Propane | 75                   | Percentage      | 750                        | Litres          |                    | C 🗑 |

# **GHG Data Reporting - Collection**

Depot, Curbside & Multi-family





# **GHG Data for Collection Report**

- Generally, GHG data will come from three activities:
  - -Fleet (collection vehicles),
  - Facilities (buildings, equipment, electricity, heating), and
  - -Supplies (paper for recycling guides, etc.)



# **Working With Your Sub-Contractor**

- As a municipality, regional waste authority or Indigenous community providing residential WPP recycling service, do you directly:
  - Collect WPP from residents via depot service?
  - Collect WPP from residents via curbside service?
- If the answer to any of the above is 'no', then you will need to work with your subcontractor to obtain the required GHG data from those activities

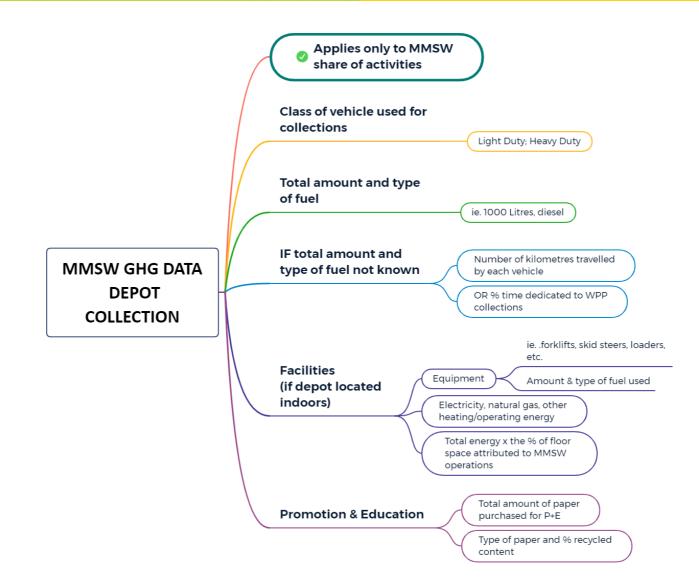


# **Regional Waste Authorities**

- If you are a Regional Waste Authority, GHG data can be reported for your entire membership in aggregate.
- You do not need to report GHG data on a per-member basis.

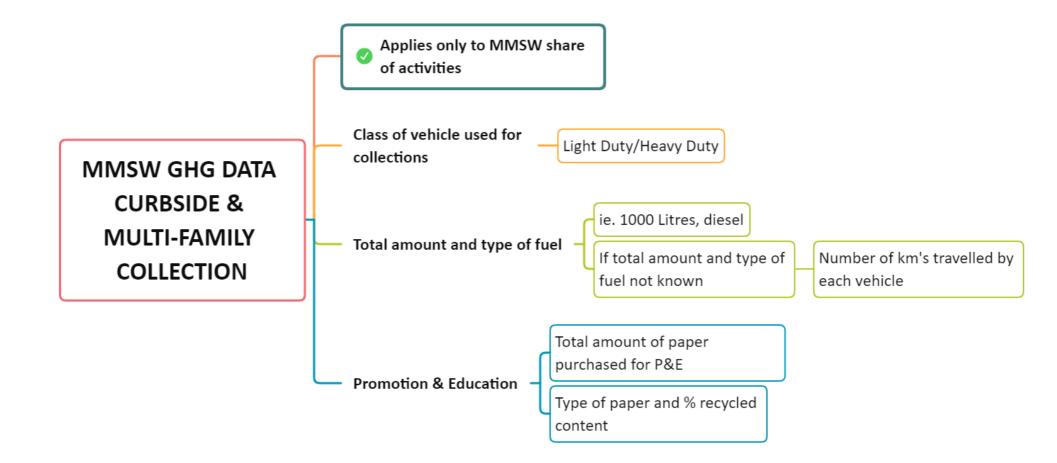


# **GHG Reporting for Depot Programs**





# **GHG Reporting for Curbside & Multi-family**





# **Upload Spreadsheet**

Introduction of three new worksheet tabs:

- 1. Instructions-GHG reporting tab has all the instructions and description about how to fill the GHG report and upload it to the portal
- 2. Instructions-Material reporting tab has all the instructions and description about how to fill the Materials report (Claims Reporting)
- 3. Originating sites tab has the list of all the originating site associated with the contract

|               | Save Spreadsheet as<br><u>TXT file</u> |              | <u>Clear Spreadshee</u><br><u>Data</u> | <u>t</u> |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|---------------|--|--------------|--|----------|---|---------------------------------------|-----------------------|---------------------------------|----------------|----------------|---------------|------------------------|----------------|-------------------------|----------|
| ntract Number | Document Number                        | Service Type | Reference                              | Comments | Reporting<br>Period Start<br>(DDMMYYYY) | Reporting<br>Period End<br>(DDMMYYYY) | Originating Site Name | Originating Site<br>Postal Code | Not Applicable | Not Applicable | Emission Type | Type of<br>Measurement | Not Applicable | % attributed<br>to MMSW | Quantity |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              | 1                                      | 1        |   | 2                                     |                       | 3                               |                |                |               |                        |                |                         |          |

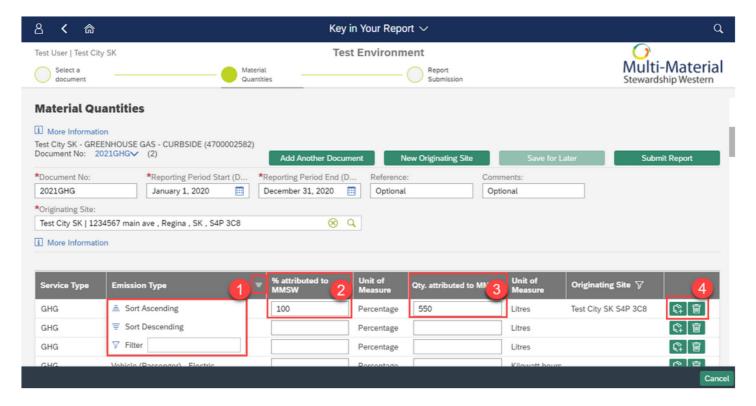


#### **Sort & Filter**

#### Sort & Filter Functionality:

Select the upside-down pyramid to display filter options:

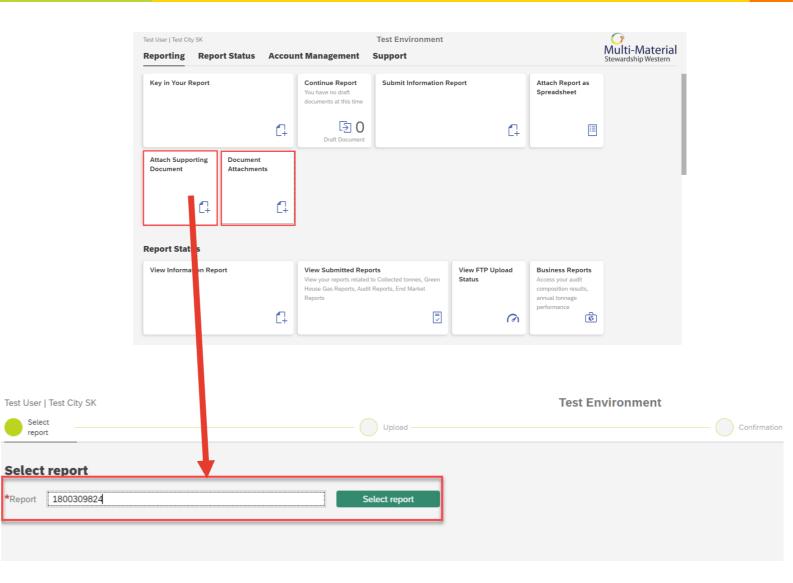
- Sort by ascending or descending emission type name
- Using the filter field: Type in your key word and hit 'enter'. To remove the filter criteria, select the icon again, delete the text and hit 'enter'.





# Methodology

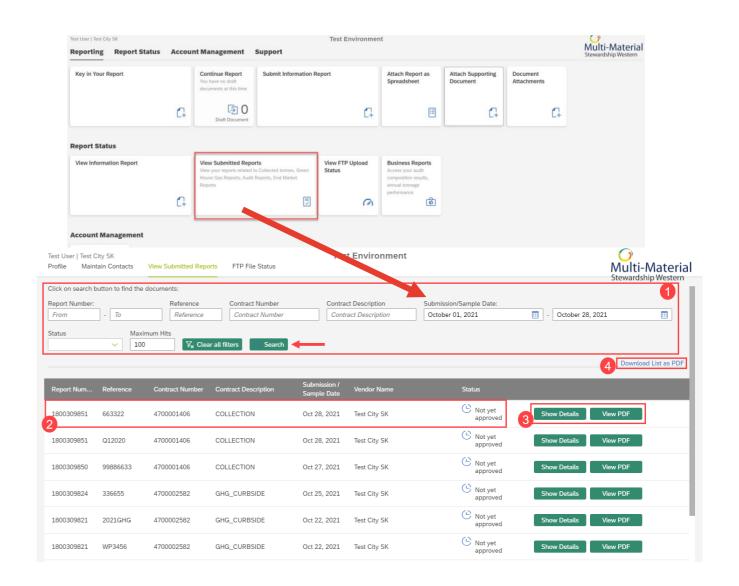
- The Attach Supporting Document tile found on the home page is where documentation can be submitted in order to support and substantiate GHG claims.
- Please have your Report Number ready (1800\*\*\*\*\*). This can be found in the View Submitted Reports section of the portal.





# Year Over Year Comparison

- Search by report number, contract description, submission date or status. Click 'Search' to populate the list of reports that matches the criteria entered.
- 2. The table will display the details for each report.
- 'Show Details' will display an overview of the submitted report details. 'View PDF' will open a more thorough PDF version of the submitted report, which can then be downloaded.
- 4. 'Download List as PDF' will display a PDF version of the submitted report list.





### Fleet

- Class of Vehicle (s) used
  - Light Duty Truck
  - Heavy Duty
- Total amount and type of fuel consumed by each vehicle class (e.g. Heavy Duty vehicle; 1,000 liters of diesel)?

| Service Type | Emission Type                     | ■ % attributed to MMSW | Unit of<br>Measure | Qty. attributed to MMSW | Unit of<br>Measure | Originating Site 🛛   |
|--------------|-----------------------------------|------------------------|--------------------|-------------------------|--------------------|----------------------|
| GHG          | Vehicle (Passenger) - Propane     | 100                    | Percentage         | 550                     | Litres             | Test City SK S4P 3C8 |
| GHG          | Vehicle (Passenger) - Natural Gas |                        | Percentage         |                         | Litres             | (¢) 🗑                |
| GHG          | Vehicle (Passenger) - Gasoline    |                        | Percentage         |                         | Litres             | [C]                  |

# Fleet Mileage

- If the total amount of • fuel consumed per vehicle class is not available, then we will need to know the number of kilometers travelled by each vehicle type (i.e. total mileage).
- Reporting by km's is on a case by case basis

| report     Quantities       Material Quantities     Submission       More Information       Test City SK - GREENHOUSE GAS - CURBSIDE (4700000000)   | Iti-Materia<br>ardship Western<br>ubmit Report |
|---|--|
| Material Quantities         Image Information         Test City SK - GREENHOUSE GAS - CURBSIDE (470000000)         Document No:       Reporting Period Start (DDMMYYYY):         * Occument No:       * Reporting Period Start (DDMMYYYY):         * Mmmm d, yyyy       Mmmm d, yyyy         * Originating Site:       Search for name or address, minimum 3 characters         Search for name or address, minimum 3 characters       C         * More Information       *         * More Information       *         * Originating Site:       C         Search for name or address, minimum 3 characters       C         * More Information       *         *       Chick Outle (Heavy Duty) - Biodlesel       Percentage         CHG       Vehicle (Heavy Duty) - Nig       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Oligel       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Oligel       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Diesel       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Diesel       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Electric       Percentage       Litres         CHG       Vehicle (Heavy Duty) - Electri  | ubmit Report                                   |
| More Information         Test City Sk - GREENHOUSE GAS - CURBSIDE (4700000000)         Document No:       New Originating Site         Obcument No:       Reporting Period Start (DDMMYYYY):         Reporting Period Start (DDMMYYYY):       Reference:       Comments:         Mmmm d. yyyy       Mmmm d. yyyy         *Originating Site:       C         Search for name or address, minimum 3 characters       C         Search for name or address, minimum 3 characters       C         Geld       Vehicle (Heavy Duty) - Biodiesel       Percentage         GHG       Vehicle (Heavy Duty) - CNG       Percentage       Litres         GHG       Vehicle (Heavy Duty) - Diesel       Percentage       Litres   |  |
| Test Chy SK - GREENHOUSE GAS - CURBSIDE (4700000000)   Document No:   * Reporting Period Start (DDMMYYYY):   * Reporting Period Start (DDMMYYY):   * Reporting Period Start (DDMMYY):   * Reporting Period Start (DDMMY):   * Reporting Period Start (DDMMY):   * Reporting Perio   |  |
| Immed, yyyy       Immed, yyyy       Immed, yyyy         *Originating Site:       Search for name or address, minimum 3 characters       Q         I More Information       Immediate the second sec   |  |
| Construction       Construction <t< td=""><td></td></t<>  |  |
| Search for name or address, minimum 3 characters         Search for name or address, minimum 3 characters         I More Information         Service Type       Emission Type       V A staributed to MMSW       Unit of Measure       Quantity       Unit of Measure       Originating Site V         GHG       Vehicle (Heavy Duty) - Biodiesel       Percentage       Litres         GHG       Vehicle (Heavy Duty) - CNG       Percentage       Litres         GHG       Vehicle (Heavy Duty) - Diesel       Percentage       Litres  |  |
| Image: |  |
| Service Type       Emission Type       Image: A attributed to MMSW       Unit of Measure       Quantity       Unit of Measure       Originating Site Image: A stributed to MMSW         GHG       Vehicle (Heavy Duty) - Biodiesel       Image: A stributed to MMSW       Percentage       Image: A stributed to MMSW       Unit of Measure       Originating Site Image: A stributed to MMSW       Percentage       Image: A stributed to MMSW       Image: A stributed to MMSW <td></td>   |  |
| GHG     Vehicle (Heavy Duty) - Biodiesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - CNG     Percentage     Cubic meter       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres  |  |
| GHG     Vehicle (Heavy Duty) - Biodiesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - CNG     Percentage     Cubic meter       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres  |  |
| GHG     Vehicle (Heavy Duty) - CNG     Percentage     Cubic meter       GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Electric     Percentage     Litres   |  |
| GHG     Vehicle (Heavy Duty) - Diesel     Percentage     Litres       GHG     Vehicle (Heavy Duty) - Electric     Percentage     Kilowatt hours   | [\$]   |
| GHG Vehicle (Heavy Duty) - Electric Percentage Kilowatt hours   | (¢)  |
|   |  |
| GHG Vehicle (Heavy Duty) - Gasoline Percentage Litres   | R D  |
|   | R D  |
| GHG Vehicle (Heavy Duty) - Natural Gas Percentage Litres  | R D  |
| GHG Vehicle (Heavy Duty) - Propane Percentage Litres  | Q 🗑  |
| GHG Vehicle (Heavy) - Biodiesel Distance Percentage Kilometer   | Q 🗑  |
| GHG Vehicle (Heavy) - Biodiesel Weight Percentage Kg  | Q 🗑  |
| GHG Vehicle (Heavy) - CNG Distance Percentage Kilometer   |  |
| GHG Vehicle (Heavy) - CNG Weight Percentage Kg  |  |
| GHG Vehicle (Heavy) - Diesel Distance 100 Percentage 800 Kilometer  |  |
| GHG Vehicle (Heavy) - Diesel Weight Percentage Kg   |  |
| GHG Vehicle (Heavy) - Electric Distance Percentage Kilometer  |  |



### Fleet: Maintenance & Staff Activity

• Include fuel usage associated with maintenance or staff activity like site inspections or cart repair/drop-off, etc.



# **Allocating Your Share of GHG**





# **Allocating for Share of GHG**

 MMSW recognizes that your/sub-contractor's collection activities may not be entirely related to your MMSW-based materials, and therefore requires that you report only data as it relates to MMSW's allocation of the overall activities.

|                                  |                                  | Measure                          | Qty. attributed to MMSW          | Unit of<br>Measure               | Originating Site $\nabla_{\!\mathbf{x}}$           |  |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|
| ehicle (Passenger) - Propane     | 100                              | Percentage                       | 550                              | Litres                           | Test City SK S4P 3C8                               | R1 🔟   |
| ehicle (Passenger) - Natural Gas |                                  | Percentage                       |                                  | Litres                           |  | Q 🗑  |
| ehicle (Passenger) - Gasoline    |                                  | Percentage                       |                                  | Litres                           |  | Q 🗑  |
| e                                | ehicle (Passenger) - Natural Gas | chicle (Passenger) - Natural Gas | ehicle (Passenger) - Natural Gas | chicle (Passenger) - Natural Gas | chicle (Passenger) - Natural Gas Percentage Litres | chicle (Passenger) - Natural Gas Percentage Litres |



# **Curbside & Multifamily Collections**





# **Allocation Scenario 1 -- Collection Vehicle Activity**

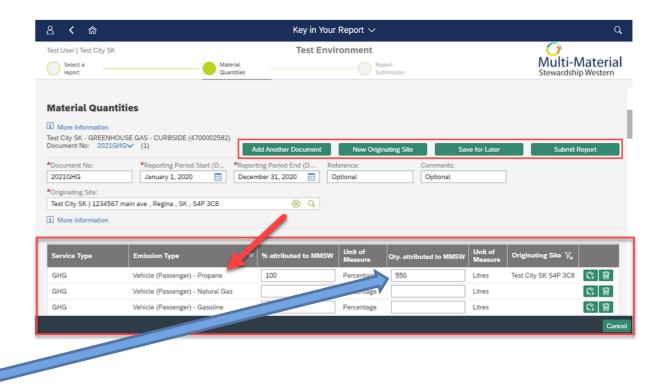
• If the collection vehicle used for your residential WPP recycling program also collects other non-WPP materials (ie. organics, garbage, commercial material, etc.) during the year, you must allocate the share of fuel or kilometres driven to only the activities involved with collection of WPP for your residential recycling program



# **Allocation Scenario 1 -- Example**

| Collection truck A used for WPP and garbage |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| on different days                           |  |  |  |  |  |  |

| Total annual fuel used 550 L             |        |  |  |  |  |  |
|--|--------|--|--|--|--|--|
| for collection                           |        |  |  |  |  |  |
| Annual fuel used for                     | 550 L  |  |  |  |  |  |
| collection of                            |        |  |  |  |  |  |
| residential WPP                          |        |  |  |  |  |  |
| Annual fuel used for 0 L                 |        |  |  |  |  |  |
| collection of garbage                    |        |  |  |  |  |  |
| Please report 100% & 550 L fuel usage to |        |  |  |  |  |  |
| MN                                       | . MMSW |  |  |  |  |  |



Multi-Material Stewardship Western

## **Allocation Scenario 2 – Shared Route**

- If applicable, check with your sub-contractor to determine if your collected WPP is on a shared route with other collectors. If it is, the amount of GHGs generated by collections activities will need to be allocated based on your annual share of households on a full truck.
- If share of households is unknown, you may alternatively allocate based on percent share of total weight of WPP.



# **Allocation Scenario 2 -- Example**

| Total Fuel Usage = 750 L |                            |  |  |  |  |  |
|--------------------------|----------------------------|--|--|--|--|--|
| Community A              | 80                         |  |  |  |  |  |
| Households               |                            |  |  |  |  |  |
| Community B              | 20                         |  |  |  |  |  |
| Households               |                            |  |  |  |  |  |
| Total Households On      | 100                        |  |  |  |  |  |
| Full Truck               |                            |  |  |  |  |  |
| Community A Share        | 80% x 750 L = <b>600 L</b> |  |  |  |  |  |
| GHG                      |                            |  |  |  |  |  |
| Community B Share        | 20% x 750 L = <b>150 L</b> |  |  |  |  |  |
| GHG                      |                            |  |  |  |  |  |

| Select a report   |                                    |                                       |                  | Material<br>Quantities  | Tes        | Environment           | R      | leport<br>jubmission                         |                     |                     |                    | Mu | )<br>Iti-Material<br>ardship Western |    |                                      |
|-------------------|------------------------------------|---------------------------------------|------------------|-------------------------|------------|-----------------------|--------|--|---------------------|---------------------|--------------------|----|--------------------------------------|----|--------------------------------------|
|                   | - GREENHOUSE G                     | AS – END MARKE                        | T TRANSPORTA     | TION                    |            |                       |        |  |                     |                     | (47                | 5) |                                      |    |                                      |
| Material C        | Quantities                         |                                       |                  |                         |            |                       |        |  |                     |                     |                    |    |                                      |    |                                      |
|                   | GREENHOUSE GAS                     |                                       | 14)              |                         |            |                       | _      |  |                     |                     |                    |    |                                      |    |                                      |
|                   |                                    | . ,                                   |                  |                         |            | Add Another Docume    | nt     | New  | Originating Site    | Sav                 | ve for Later       | S  | ubmit Report                         |    |                                      |
| *Document No:     |                                    | Mmmm d, yy                            | riod Start (DDM  | MYY *Reporting Period E |            |                       |        |  | Comments:           |                     |                    |    |                                      |    |                                      |
| *Originating Site | e:                                 |                                       |                  |                         |            |                       |        |  |                     |                     |                    |    |                                      |    |                                      |
| Community A       |                                    |                                       |                  |                         | × C        | L.                    |        |  |                     |                     |                    |    |                                      |    |                                      |
| Service Type      | Emission Type                      |                                       | % :              | attributed to MMSW      | Unit of    | Measure               |        | Quantity                                     |                     | Unit                | of Measure         |    | Originating Site                     |    |                                      |
| GHG               | Vehicle (Light Du                  | ty) - Diesel                          |                  |                         | Percent    | age                   |        |  |                     | Litres              |                    |    |                                      |    |                                      |
| GHG               | Vehicle (Light Du                  | ty) - Natural Gas                     |                  |                         | Percent    | age                   |        |  |                     | Litres              |                    |    |                                      |    |                                      |
| GHG               | Vehicle (Light Du                  | ty) - Electric                        |                  |                         | Percent    | age                   |        |  |                     | Kilow               | att hours          |    |                                      |    |                                      |
| GHG               | Vehicle (Heavy D                   | uty) - Biodiesel                      |                  |                         | Percent    | age                   | _      |  |                     | Litres              |                    |    |                                      |    |                                      |
| GHG               | Vehicle (Heavy D                   | uty) - Diesel                         | 80               | )                       | Percent    | age                   |        | 600  |                     | Litres              |                    |    |                                      |    |                                      |
| GHG               | Vehicle (Heavy Duty) - Natural Gas |                                       |                  |                         | Percentage |                       | _      | Litres                                       |                     |                     |                    |    |                                      |    |                                      |
| GHG               | Vehicle (Heavy D                   | uty) - Electric                       |                  |                         | Percent    | age                   |        |  |                     | Kilow               | att hours          |    |                                      |    |                                      |
|                   | (                                  | Select a report                       |                  |                         |            | terial<br>antities    |        | Test En                                      | vironment           | Report<br>Submissio | n                  |    |                                      |    | Multi-Materia<br>Stewardship Western |
|                   |                                    |                                       | GREENHOUSE       | GAS – END MARKET TRANS  | PORTATION  |                       |        |  |                     |                     |                    |    |                                      | (4 | )                                    |
|                   |                                    | Material Qu<br>- GF<br>Document No: N | REENHOUSE GA     | AS - DEPOT (4700002584) |            |                       |        | A  | dd Another Document |                     | New Originating Si | e  | Save for Later                       |    | Submit Report                        |
|                   |                                    | Document No:                          |                  | *Reporting Period Star  | (DDMMYY    | *Reporting Period End | I (DDI | MMYY   | Reference:          |                     | Comments:          | _  |                                      |    |                                      |
|                   |                                    |                                       |                  | Mmmm d, yyyy            |            | Mmmm d, yyyy          |        | <b></b>                                      |                     |                     |                    |    |                                      |    |                                      |
|                   |                                    | Originating Site:<br>Community B      |                  |                         |            |                       |        | <u>⊗                                    </u> |                     |                     |                    |    |                                      |    |                                      |
|                   | 1                                  |                                       |                  |                         |            |                       |        |  |                     |                     |                    |    |                                      |    |                                      |
|                   |                                    | Service Type                          | Emission Type    |                         | % attribu  | ted to MMSW           | Ľ      | Unit of Mea                                  | sure                | Quant               | ity                |    | Unit of Measure                      |    | Originating Site                     |
|                   |                                    | GHG                                   | Vehicle (Light D | luty) - Diesel          |            |                       | P      | Percentage                                   |                     |                     |                    |    | Litres                               |    |                                      |
|                   |                                    | GHG                                   | Vehicle (Light D | luty) - Natural Gas     |            |                       | P      | Percentage                                   |                     |                     |                    |    | Litres                               |    |                                      |
|                   |                                    | GHG                                   | Vehicle (Light D | luty) - Electric        |            |                       | P      | Percentage                                   |                     |                     |                    |    | Kilowatt hours                       |    |                                      |
|                   |                                    | GHG                                   | Vehicle (Heavy   | Duty) - Biodiesel       |            |                       | P      | Percentage                                   |                     |                     |                    |    | Litres                               |    |                                      |
|                   |                                    | GHG                                   | Vehicle (Heavy   | Duty) - Diesel          | 20         |                       | P      | Percentage                                   |                     | 150                 |                    |    | Litres                               |    |                                      |
|                   |                                    | GHG                                   | Vehicle (Heavy   | Duty) - Natural Gas     |            |                       | P      | Percentage                                   |                     |                     |                    |    | Litres                               |    |                                      |



# **Additional Reporting Measures**

#### **DEPOT collection programs only**





#### **Facilities**

• GHG from facilities applies only if your/sub-contractor's depot is located inside a building or is outdoors and uses energy for lighting.



# **Electricity Consumption**



| Month   | Usage (kWh) |
|---------|-------------|
| January | 1,394       |

| <b>Material Qua</b> | antities |
|---------------------|----------|
|---------------------|----------|

| City of Regina - GREENHOUSE GAS -<br>Document No: New Document |  |   | Add Another Document | New Originating Site               | Save for Later | Su |
|--|--|---|----------------------|------------------------------------|----------------|----|
| *Document No:  | *Reporting Period Start (DDMMYY<br>January 1, 2020 | *Reporting Period End (DDMMYY<br>January 31, 2020 | Reference:           | Comments:<br>Jan - electricity GHG | à              |    |
| *Originating Site:   | L  |   | 1                    |                                    |                |    |
| Community 1  |  | 🛞 Q   |                      |                                    |                |    |
|  |  |   |                      |                                    |                |    |

| Service Type | Emission Type                                  | % attributed to MMSW | Unit of Measure          | Quantity | Unit of Measure          |
|--------------|--|----------------------|--------------------------|----------|--------------------------|
| GHG          | Indoor floor space                             |                      | Percentage               |          | Square foot              |
| GHG          | Outdoor floor space                            |                      | Percentage               |          | Square foot              |
| GHG          | Electricity Consumption                        | 100                  | Percentage               | 1394     | Kilowatt hours           |
|              |  |                      |                          |          |                          |
| GHG          | Heating - Natural Gas                          |                      | Percentage               |          | Cubic meter              |
| GHG<br>GHG   | Heating - Natural Gas<br>Heating - Natural Gas |                      | Percentage<br>Percentage |          | Cubic meter<br>Gigajoule |
|              | 0  |                      | 5                        |          |                          |



# **Heating Consumption**

• Record how much is being consumed at each facility

| Fuel Type  | Unit  |
|--|-------|
| Natural Gas  | GJ/m3 |
| Diesel, kerosene,<br>light fuel oil, heavy<br>fuel oil, propane,<br>ethane, butane | L     |





• We would like to know what kind(s) of fossil fuel-based equipment you use at your/sub-contractor's depot.

• <u>Remember, this is only equipment that</u> <u>is used for the collection of WPP,</u> <u>including staff activity like site</u> <u>inspections or maintenance</u>

- forklifts,
- skid steers,
- loaders, etc.?
- gasoline,
- diesel,
- liquefied petroleum gas (propane),
- natural gas?



#### Equipment

- Amount of fuel purchased for your/sub-contractor's equipment.
  - record the total in litres
- If different pieces of equipment use different fuels, please record the equipment and fuel usage separately.
- Please also include the percent of the time this type of equipment is used for MMSW-related use.



### **Example – Equipment**

| Type of       | Forklift   | Type of       | Front-end   | ]                                |  |  |            |   |                           |                      |          |                                 |                          |     |
|---------------|------------|---------------|-------------|----------------------------------|--|--|------------|---|---------------------------|----------------------|----------|---------------------------------|--------------------------|-----|
| Equipment     |            | Equipment     | loader      |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| % of the time | 25%        | % of the time | 10%         | Material G                       |  |  |            |   |                           |                      |          |                                 |                          |     |
| dedicated to  |            | dedicated to  |             | Document No:                     | GREENHOUSE GAS -<br>Test12345 (1)        | DEPOT (4                                     |            |   | A                         | Add Another Document | New O    | riginating Site                 | Save for Lat             | ter |
| MMSW          |            | ANASW         |             | *Document No:<br>Test12345       |  | *Reporting Period Start (<br>January 1, 2020 | DDMMYY     | *Reporting Period End<br>January 31, 2020 | DDMMYY                    | Reference:           |          | Comments:<br>Jan - GHG - Equipm | ent data                 |     |
| materials     |            | materials     |             | *Originating Site<br>Community 1 |  | L  |            |   | ⊗ Q                       |                      |          |                                 |                          |     |
| Type of Fuel  | Diesel     | Type of Fuel  | Dieser      |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| Used          |            | Used          |             | GHG                              | Emission Type                            |  | % attribut | ed to MMSW                                | Unit of Mea<br>Percentage | isure                | Quantity |                                 | Unit of Measu<br>Litres  | ire |
|               |            |               |             | GHG                              | Forklift - CNG<br>Forklift - Biodiesel   |  |            |   | Percentage                |                      |          |                                 | Cubic meter              |     |
| Month         | Total Fuel | Month         | Total Fuel  | GHG                              | Forklift - Diesel                        |  | 25         |   | Percentage<br>Percentage  |                      | 99.5     |                                 | Litres<br>Litres         |     |
|               | Usage (L)  |               | Usage (L)   | GHG                              | Forklift - Natural G                     | as   |            |   | Percentage<br>Percentage  |                      |          |                                 | Litres<br>Kilowatt hours |     |
| January       | 398        | January       | 612         |                                  | Front End Loader -                       |  |            |   | Percentage                |                      |          |                                 | Cubic meter              |     |
| January (MMSW | 398 x .25  |               | 612 x .10 = | GHG                              | Front End Loader -<br>Front End Loader - |  | 10         |   | Percentage<br>Percentage  |                      | 61       |                                 | Litres<br>Litres         |     |
| allocation)   | =          | (MMSW         | 61 L        |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| ,             | 99.50 L    | allocation)   |             |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |



# GHG Paper Use: Depot, Curbside & Multi-family





#### **Paper Use**

- How much paper by weight has been purchased for printed packaging and paper product recycling brochures, pamphlets, etc.
- The paper type must be known as well as the percent of recycled content
- Please divide your total volume of paper purchased by the number of pages allocated to recycling of paper and packaging only.



#### **Example Paper Types**

| Copy paper         | Copy paper, inkjet/laser paper, letterhead, stationery, some higher-end<br>notebook and lined writing paper, envelopes, fine book papers, text and cover<br>grades (often beautiful designer papers), report covers, "post-it" notes, some<br>brochures, invitations, some business cards, some menus |
|--------------------|---|
| Catalog (High-End) | High-end catalogs, magazines, luxury advertising, and brochures   |
| Newsprint          | Newspaper, newsprint, directory papers (e.g., phone books), inexpensive paperback books, some lined writing papers  |
| Catalog (Mass Mkt) | Mass-market catalogs and magazines, mass-market advertising on "slick" paper  |
| Newspaper inserts  | Newspaper inserts, grocery and drug store advertising papers, some bulk mailbox advertisements, some mass-market catalogs and magazines   |



## **Post-Collection GHG Reporting**





#### What GHG Data Do You Report for Post-collection?

- Generally, GHG data will come from three activities:
  - Hauling (transportation of WPP to sorting facilities);
  - Facilities (buildings and equipment for processing WPP); and
  - Shipping to End Markets (transportation of WPP to markets for reuse).



#### **Regional Waste Authorities**

- If you are a Regional Waste Authority, GHG data can be reported for your entire membership in aggregate.
- You do not need to report GHG data on a per-member basis.



#### **Working With Your Sub-Contractor**

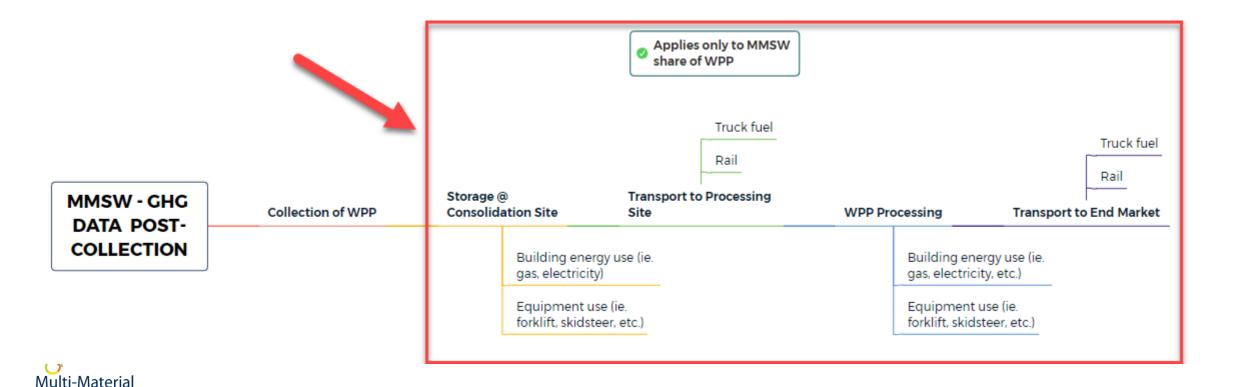
- As a municipality, regional waste authority or First Nations community, do you directly:
  - Transport collected WPP to a receiving facility such as a consolidation site or a material recovery facility (MRF)?
  - Operate/own a receiving facility such as a consolidation site or MRF?
  - Process or sort collected WPP into marketable categories?
  - Sell and ship collected WPP to markets for reuse?



#### **Post-Collection Boundaries Type 1**

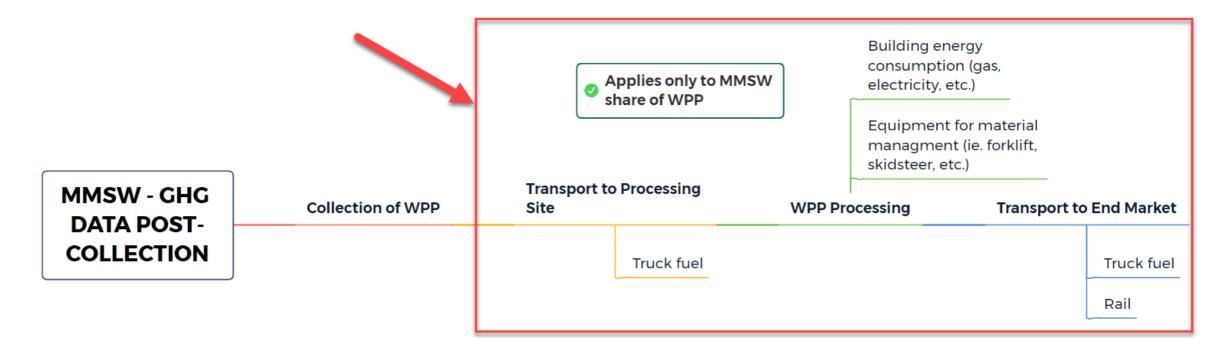
Stewardship Western

• Post-Collection refers to any material management activities that take place <u>after</u> initial collection of WPP.



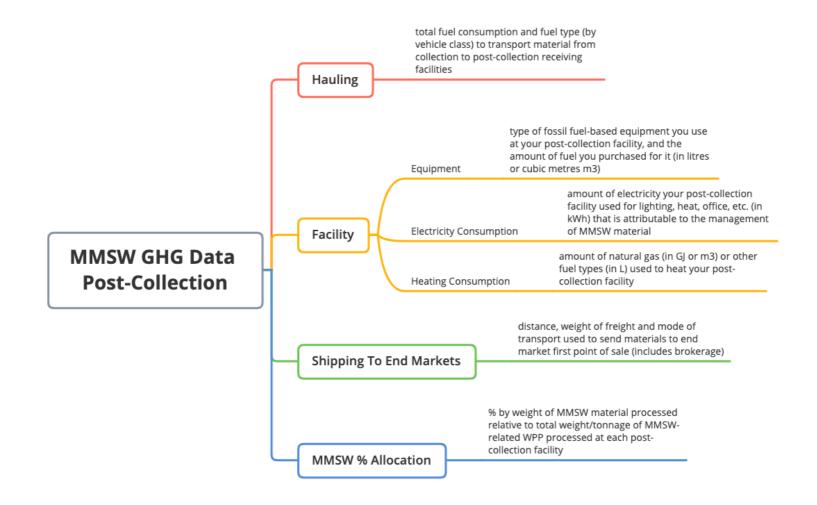
#### **Post-Collection Boundaries Type 2**

• Or, material may be hauled directly to a processing facility for sorting and sale to remanufacturing markets.





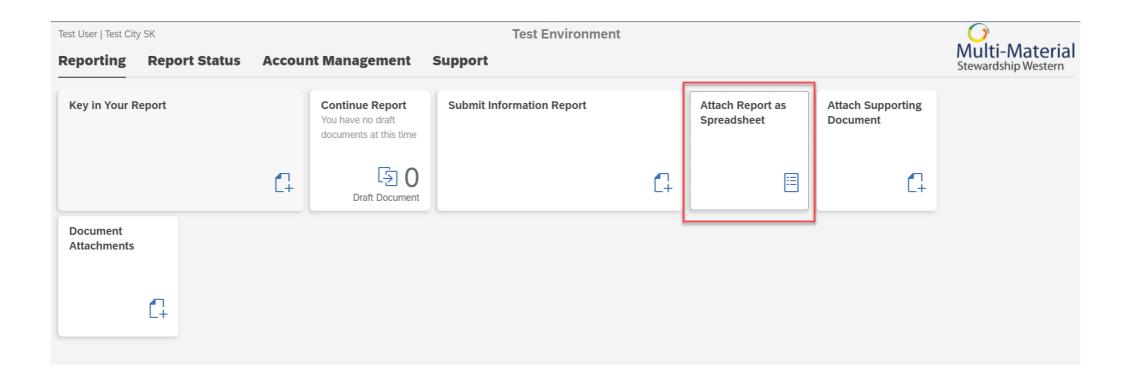
#### What GHG Data Do You Report for Post-collection?





#### **Upload Spreadsheet**

• Collectors have the option to use this spreadsheet to enter GHG data then upload all information at once



### **Upload Spreadsheet**

Introduction of three new worksheet tabs:

- 1. Instructions-GHG reporting tab has all the instructions and description about how to fill the GHG report and upload it to the portal
- 2. Instructions-Material reporting tab has all the instructions and description about how to fill the Materials report (Claims Reporting)
- 3. Originating sites tab has the list of all the originating site associated with the contract

|               | Save Spreadsheet as<br><u>TXT file</u> |              | <u>Clear Spreadshee</u><br><u>Data</u> | <u>t</u> |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|---------------|--|--------------|--|----------|---|---------------------------------------|-----------------------|---------------------------------|----------------|----------------|---------------|------------------------|----------------|-------------------------|----------|
| ntract Number | Document Number                        | Service Type | Reference                              | Comments | Reporting<br>Period Start<br>(DDMMYYYY) | Reporting<br>Period End<br>(DDMMYYYY) | Originating Site Name | Originating Site<br>Postal Code | Not Applicable | Not Applicable | Emission Type | Type of<br>Measurement | Not Applicable | % attributed<br>to MMSW | Quantity |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              |  |          |   |                                       |                       |                                 |                |                |               |                        |                |                         |          |
|               |  |              | <u>ر</u>                               | 1        |   | 2                                     |                       | 3                               |                |                |               |                        |                |                         |          |

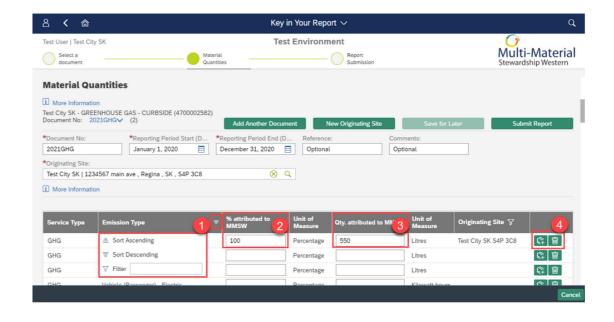


#### Sort & Filter

#### **Sort & Filter Functionality:**

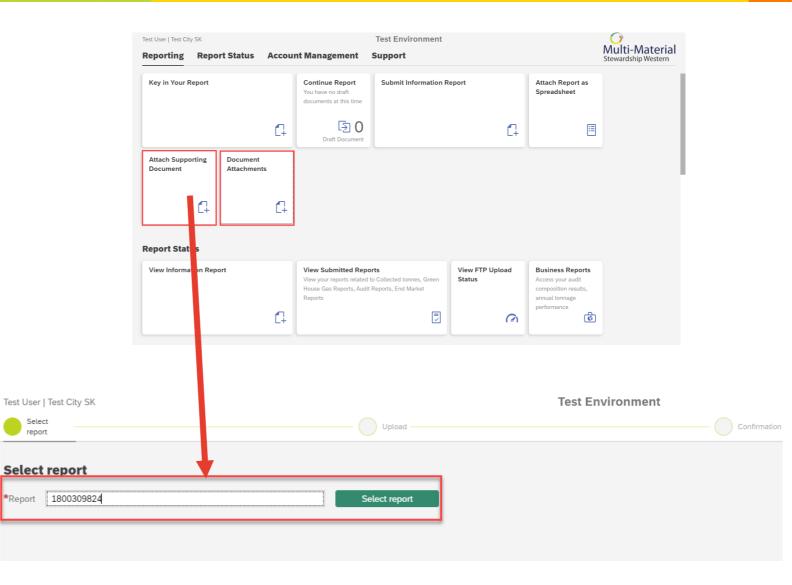
Select the upside-down pyramid to display filter options:

- Sort by ascending or descending emission type name
- Using the filter filed: Type in your key word and hit 'enter'. To remove the filter criteria, select the icon again, delete the text and hit 'enter'.



#### Methodology

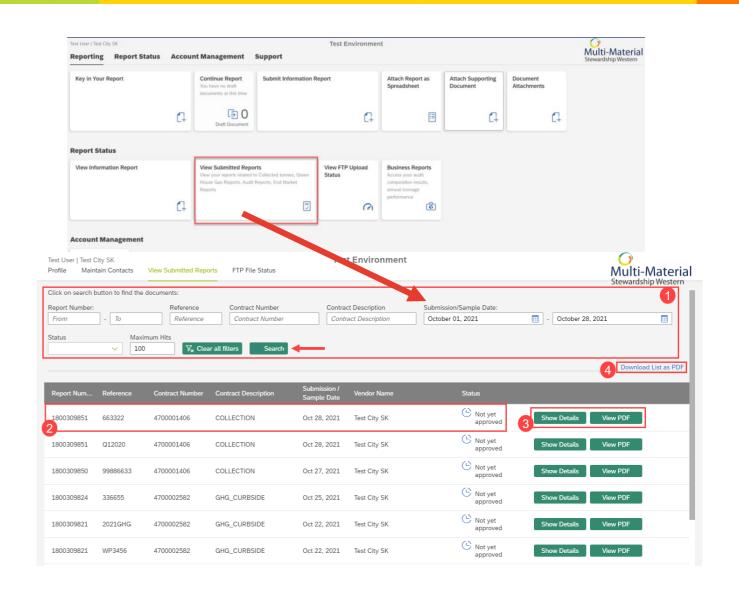
- The Attach Supporting Document tile found on the home page is where documentation can be submitted in order to support and substantiate GHG claims.
- Please have your Report Number ready (1800\*\*\*\*\*). This can be found in the View Submitted Reports section of the portal.





#### Year Over Year Comparison

- Search by report number, contract description, submission date or status. Click 'Search' to populate the list of reports that matches the criteria entered.
- 2. The table will display the details for each report.
- 'Show Details' will display an overview of the submitted report details. 'View PDF' will open a more thorough PDF version of the submitted report, which can then be downloaded.
- 4. 'Download List as PDF' will display a PDF version of the submitted report list.





**Fleet** 

- Class of Vehicle (s) used
  - Light Duty Truck
  - Heavy Duty
- Total amount and type of fuel consumed by each vehicle class (e.g. Heavy Duty vehicle; 1,000 liters of diesel)?

| Test User   Test City SK   |                                      |              |                       | Test E          | nvironment |           |             |                      |                    | 0   |
|----------------------------|--------------------------------------|--------------|-----------------------|-----------------|------------|-----------|-------------|----------------------|--------------------|---|
| Select a                   |                                      |              | aterial               |                 |            | Report    | t<br>ission |                      |                    | Multi-Materi<br>Stewardship Westerr                       |
| Material Quantitie         | 25                                   |              |                       |                 |            |           |             |                      |                    |   |
| i More Information         |                                      |              |                       |                 |            |           |             |                      |                    |   |
| Test City SK - GREENHOUSE  | E GAS - CURBSIDE (47                 |              |                       |                 |            |           |             |                      |                    |   |
| Document No: New Docum     | nentv (1)                            |              |                       |                 |            | Add Anoth | er Document | New Originating Site | Save for Later     | Submit Report   |
| Document No:               | *Reporting Period Start (DDMMYY)     |              | *Reporting Period End |                 | Reference: |           | Comr        | nents:               |                    |   |
|                            | Mmmm d, yyyy                         | <b></b>      | Mmmm d, yyyy          | <b></b>         |            |           |             |                      |                    |   |
| Originating Site:          |                                      |              |                       |                 |            |           |             |                      |                    |   |
| Search for name or address | s, minimum 3 characters              |              |                       | Q               |            |           |             |                      |                    |   |
| i More Information         |                                      |              |                       |                 |            |           |             |                      |                    |   |
|                            |                                      |              |                       |                 |            |           |             |                      |                    |   |
| Service Type               | Emission Type 🛛 🖓 🖉                  | 🛎 🛛 % attrib | outed to MMSW         | Unit of Measure |            | Quantity  |             | Unit of Measure      | Originating Site 🏹 |   |
| GHG                        | Vehicle (Heavy Duty) - Biodiesel     |              |                       | Percentage      |            |           |             | Litres               |                    | (C) (D)   |
| GHG                        | Vehicle (Heavy Duty) - CNG           |              |                       | Percentage      |            |           |             | Cubic meter          |                    |   |
| GHG                        | Vehicle (Heavy Duty) - Diesel        | 100          |                       | Percentage      |            | 1000      |             | Litres               |                    |   |
| GHG                        | Vehicle (Heavy Duty) - Electric      |              |                       | Percentage      |            |           |             | Kilowatt hours       |                    |   |
| GHG                        | Vehicle (Heavy Duty) - Gasoline      |              |                       | Percentage      |            |           |             | Litres               |                    |   |
| GHG                        | Vehicle (Heavy Duty) - Natural Gas   |              |                       | Percentage      |            |           |             | Litres               |                    | [<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) |
| GHG                        | Vehicle (Heavy Duty) - Propane       |              |                       | Percentage      |            |           |             | Litres               |                    |   |
| GHG                        | Vehicle (Heavy) - Biodiesel Distance |              |                       | Percentage      |            |           |             | Kilometer            |                    |   |
| GHG                        | Vehicle (Heavy) - Biodiesel Weight   |              |                       | Percentage      |            |           |             | Kg                   |                    |   |
| GHG                        | Vehicle (Heavy) - CNG Distance       |              |                       | Percentage      |            |           |             | Kilometer            |                    | (C)   |
| GHG                        | Vehicle (Heavy) - CNG Weight         |              |                       | Percentage      |            |           |             | Kg                   |                    |   |
| GHG                        | Vehicle (Heavy) - Diesel Distance    |              |                       | Percentage      |            |           |             | Kilometer            |                    |   |
| GHG                        | Vehicle (Heavy) - Diesel Weight      |              |                       | Percentage      |            |           |             | Кg                   |                    |   |
| GHG                        | Vehicle (Heavy) - Electric Distance  |              |                       | Percentage      |            |           |             | Kilometer            |                    |   |

#### **Hauling Mileage**

- If the total amount and type of fuel consumed per vehicle class is not available, then we will need to know the number of kilometers travelled by each vehicle type (i.e. total mileage) in order to calculate the estimated volume of fuel consumed.
- Reporters can upload their methodology summary for reporting in Kms from within the portal





• We would like to know what kind(s) of fossil fuelbased equipment you use at your/sub-contractor's facility.



- forklifts
- skid steers
- loaders
- balers

- gasoline
- diesel
- liquefied petroleum gas (propane)
- natural gas

#### Equipment

- Amount of fuel purchased for your/sub-contractor/third party's equipment.
  - record the total in litres
- If different pieces of equipment use different fuels, please record the equipment and fuel usage separately.
- Please also include the percent of the time this type of equipment is used for MMSW-related use.

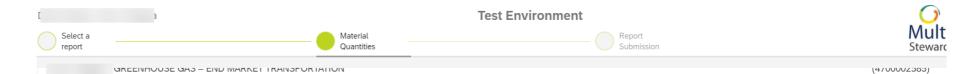


### **Example – Equipment**

| Type of       | Forklift   | Type of       | Front-end   | ]                                |  |  |            |   |                           |                      |          |                                 |                          |     |
|---------------|------------|---------------|-------------|----------------------------------|--|--|------------|---|---------------------------|----------------------|----------|---------------------------------|--------------------------|-----|
| Equipment     |            | Equipment     | loader      |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| % of the time | 25%        | % of the time | 10%         | Material G                       |  |  |            |   |                           |                      |          |                                 |                          |     |
| dedicated to  |            | dedicated to  |             | Document No:                     | GREENHOUSE GAS -<br>Test12345 (1)        | DEPOT (4                                     |            |   | A                         | Add Another Document | New O    | riginating Site                 | Save for Lat             | ter |
| MMSW          |            | ANASW         |             | *Document No:<br>Test12345       |  | *Reporting Period Start (<br>January 1, 2020 | DDMMYY     | *Reporting Period End<br>January 31, 2020 | DDMMYY                    | Reference:           |          | Comments:<br>Jan - GHG - Equipm | ent data                 |     |
| materials     |            | materials     |             | *Originating Site<br>Community 1 |  | L  |            |   | ⊗ Q                       |                      |          |                                 |                          |     |
| Type of Fuel  | Diesel     | Type of Fuel  | Dieser      |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| Used          |            | Used          |             | GHG                              | Emission Type                            |  | % attribut | ed to MMSW                                | Unit of Mea<br>Percentage | isure                | Quantity |                                 | Unit of Measu<br>Litres  | ire |
|               |            |               |             | GHG                              | Forklift - CNG<br>Forklift - Biodiesel   |  |            |   | Percentage                |                      |          |                                 | Cubic meter              |     |
| Month         | Total Fuel | Month         | Total Fuel  | GHG                              | Forklift - Diesel                        |  | 25         |   | Percentage<br>Percentage  |                      | 99.5     |                                 | Litres<br>Litres         |     |
|               | Usage (L)  |               | Usage (L)   | GHG                              | Forklift - Natural G                     | as   |            |   | Percentage<br>Percentage  |                      |          |                                 | Litres<br>Kilowatt hours |     |
| January       | 398        | January       | 612         |                                  | Front End Loader -                       |  |            |   | Percentage                |                      |          |                                 | Cubic meter              |     |
| January (MMSW | 398 x .25  |               | 612 x .10 = | GHG                              | Front End Loader -<br>Front End Loader - |  | 10         |   | Percentage<br>Percentage  |                      | 61       |                                 | Litres<br>Litres         |     |
| allocation)   | =          | (MMSW         | 61 L        |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |
| ,             | 99.50 L    | allocation)   |             |                                  |  |  |            |   |                           |                      |          |                                 |                          |     |



#### **Electricity Consumption**



| Month   | Usage (kWh) |
|---------|-------------|
| January | 1,394       |

#### **Material Quantities**

| City of Regina - GREENHOUSE GAS - |  |                      |                                    |                |     |
|-----------------------------------|--|----------------------|------------------------------------|----------------|-----|
| Document No: New Document         |  | Add Another Document | New Originating Site               | Save for Later | Sub |
| Document No:                      | *Reporting Period Start (DDMMYY       *Reporting Period End (DDMMYY         January 1, 2020       Image: Compare the second | Reference:           | Comments:<br>Jan - electricity GH0 | G              |     |
| Originating Site:                 |  | 1                    |                                    |                |     |
| Community 1                       | (X) (X)  |                      |                                    |                |     |

| Service Type | Emission Type           | % attributed to MMSW | Unit of Measure | Quantity | Unit of Measure |
|--------------|-------------------------|----------------------|-----------------|----------|-----------------|
| GHG          | Indoor floor space      |                      | Percentage      |          | Square foot     |
| GHG          | Outdoor floor space     |                      | Percentage      |          | Square foot     |
| GHG          | Electricity Consumption | 100                  | Percentage      | 1394     | Kilowatt hours  |
| GHG          | Heating - Natural Gas   |                      | Percentage      |          | Cubic meter     |
| GHG          | Heating - Natural Gas   |                      | Percentage      |          | Gigajoule       |
| GHG          | Heating - Butane        |                      | Percentage      |          | Litres          |
| GHG          | Heating - Diesel        |                      | Percentage      |          | Litres          |



#### **Facilities - Heating Consumption**

- Record how much is being consumed at each post-collection facility.
  - natural gas
  - diesel, kerosene, light fuel oil, heavy fuel oil, propane, ethane, butane
- For natural gas, the amount should be in gigajoules or cubic metres (GJ or m3); other fuel types should be reported in litres (L).
- OR if the post-collection facility is your sub-contractor's, or a third-party organization, then you can report the total area of the facility in square metres or square feet and the type of fuel used for heating the building.



#### **Shipping To End Markets Reporting**



- What is the total distance waste packaging and paper was shipped to end markets?
- Please report this data using any one of the following three formats:
  - 1. Total kms + average weight per shipment
  - 2. Average kms per shipment + total weight
  - 3. Total kms + total weight + number of shipments
- Also, please report what the mode of transport is for each material. Is it by ground transport, marine, or rail?

### **Allocating Share of GHG Data**





#### How Do You Allocate for MMSW Share of GHG?

 MMSW recognizes that hauling, facility activities, and shipping to end markets may not be entirely attributed to your MMSW-related WPP, and therefore requires that you report only data as it relates to MMSW's allocation of the overall activities.



#### **Hauling – Shared Routes**

 Check with your sub-contractor to determine if your collected WPP is on a shared route with other collectors. If it is, the amount of GHGs generated by hauling activities will need to be allocated based on your annual share of WPP hauled to receiving facilities.



#### **Example Allocation Shared Routes**

| Total Fuel U        | sage = 750 L               |
|---------------------|----------------------------|
| Community A         | 80                         |
| Households          |                            |
| Community B         | 20                         |
| Households          |                            |
| Total Households On | 100                        |
| Full Truck          |                            |
| Community A Share   | 80% x 750 L = <b>600 L</b> |
| GHG                 |                            |
| Community B Share   | 20% x 750 L = <b>150 L</b> |
| GHG                 |                            |

| Select a report                  |                   |  | Material<br>Quantities        | Tes                      | t Environment         | Report<br>Submission |                     |                      | Multi-Material<br>Stewardship Western |                                       |
|----------------------------------|-------------------|--|-------------------------------|--------------------------|-----------------------|----------------------|---------------------|----------------------|---------------------------------------|---------------------------------------|
|                                  | - GREENHOUSE (    | GAS – END MARKET TRA                         | ANSPORTATION                  |                          |                       |                      |                     | (47                  | 5)                                    |                                       |
| Material G                       | antities          |  |                               |                          |                       |                      |                     |                      |                                       |                                       |
|                                  | GREENHOUSE GA     | S - DEPOT (47 44                             | 1)                            |                          | Add Another Documer   | nt New (             | Driginating Site    | Save for Later       | Submit Report                         |                                       |
| *Document No:                    |                   | *Reporting Period S                          |                               | ting Period End (DDMMYY) | Reference:            |                      | Comments:           |                      |                                       |                                       |
| *Originating Site<br>Community A | e:                |  |                               | 8 (                      | L.                    |                      |                     |                      |                                       |                                       |
| Service Type                     | Emission Type     |  | % attributed to MN            | ISW Unit of              | Measure               | Quantity             |                     | Unit of Measure      | Originating Site                      |                                       |
| GHG                              | Vehicle (Light D  | ıty) - Diesel                                |                               | Percent                  | age                   |                      |                     | Litres               |                                       |                                       |
| GHG                              | Vehicle (Light Du | ıty) - Natural Gas                           |                               | Percent                  | age                   |                      |                     | Litres               |                                       |                                       |
| GHG                              | Vehicle (Light Du | ıty) - Electric                              |                               | Percent                  | age                   |                      |                     | Kilowatt hours       |                                       |                                       |
| GHG                              | Vehicle (Heavy [  | Outy) - Biodiesel                            |                               | Percent                  | age                   |                      |                     | Litres               |                                       |                                       |
| GHG                              | Vehicle (Heavy [  | Outy) - Diesel                               | 80                            | Percent                  | age                   | 600                  |                     | Litres               |                                       |                                       |
| GHG                              | Vehicle (Heavy [  | Outy) - Natural Gas                          |                               | Percent                  | age                   |                      |                     | Litres               |                                       |                                       |
| GHG                              | Vehicle (Heavy [  | Outy) - Electric                             |                               | Percent                  | age                   |                      |                     | Kilowatt hours       |                                       |                                       |
|                                  |                   | Select a report - GRE                        | ENHOUSE GAS - END MAR         | Qu                       | terial<br>antities    | Test En              | vironment           | Report<br>Submission | (4                                    | Multi-Material<br>Stewardship Western |
|                                  |                   | Material Quan<br>GREEN<br>Document No: New D | HOUSE GAS - DEPOT (470        | 0002584)                 |                       | Ac                   | id Another Document | New Originating Si   |                                       | Submit Report                         |
|                                  |                   | *Document No:                                | *Reporting                    | Period Start (DDMMYY     | *Reporting Period End | _                    | Reference:          | Comments             |                                       |                                       |
|                                  |                   |  | Mmmm d                        |                          | Mmmm d, yyyy          |                      |                     |                      |                                       |                                       |
|                                  |                   | *Originating Site:<br>Community B            |                               |                          |                       | ⊗ Q                  |                     |                      |                                       |                                       |
|                                  |                   | Service Type Emis                            | ssion Type                    | % attribu                | ted to MMSW           | Unit of Meas         | ure                 | Quantity             | Unit of Measure                       | Originating Site                      |
|                                  |                   | GHG Vehi                                     | cle (Light Duty) - Diesel     |                          |                       | Percentage           |                     |                      | Litres                                |                                       |
|                                  |                   | GHG Vehi                                     | cle (Light Duty) - Natural Ga | as                       |                       | Percentage           |                     |                      | Litres                                |                                       |
|                                  |                   | GHG Vehi                                     | cle (Light Duty) - Electric   |                          |                       | Percentage           |                     |                      | Kilowatt hours                        |                                       |
|                                  |                   | GHG Vehi                                     | cle (Heavy Duty) - Biodiesel  |                          |                       | Percentage           |                     |                      | Litres                                |                                       |
|                                  |                   | GHG Vehi                                     | cle (Heavy Duty) - Diesel     | 20                       |                       | Percentage           |                     | 150                  | Litres                                |                                       |
|                                  |                   | GHG Vehi                                     | cle (Heavy Duty) - Natural G  |                          |                       | Percentage           |                     |                      | Litres                                |                                       |



#### **Facilities - Allocation**

- The percent of annual MMSW weight of material processed by the facility relative to the total weight/tonnage of your WPP processed would be used as the percent allocation.
- This would then be applied to the total energy use for the facility to determine only the MMSW portion of GHG data to be reported.



#### **Facilities – Allocation Example**

• The following table provides an example of this allocation. For this example, the collector is the 'Town of Gotham' and is part of the MMSW program.

| Annual tonnes WPP to MRF – all sources         | 1000        |
|--|-------------|
| Town of Gotham annual tonnes WPP to MRF        | 300         |
| Percent share applied to facility GHG data for | 300/1000 =  |
| Town of Gotham                                 | 30%         |
| Total electricity used by MRF                  | 700 kWh     |
| Total electricity usage reported by Town of    | 700 x .30 = |
| Gotham   | 210 kWh     |



#### **Shipping To End Market - Allocation**

- The percent of annual weight of MMSW WPP shipped to end markets would be used as the percentage allocation.
- This would then be applied to the total fuel use for shipping to end markets to determine your GHG data to be reported.



#### **Shipping To End Market – Allocation Example**

 The following table provides an example of this allocation. For this example, the collector is the 'Town of Gotham' and is part of the MMSW program.

| Annual tonnes WPP shipped to market           | 975         |
|---|-------------|
| Town of Gotham annual tonnes WPP              | 278         |
| shipped to markets                            |             |
| Percent share applied to GHG data for Town    | 278/975 =   |
| of Gotham                                     | 29%         |
| Total fuel used for shipping to end market(s) | 890 L       |
| Total fuel usage reported by Town of          | 890 x .29 = |
| Gotham  | 258 L       |





#### Please submit via the webinar Q&A button:







#### **Contact Information/Resources**





• 1-855-886-4558 (option 4)

www.mmsk.ca/ghg

| CIRCULAR  |  |                           |
|---|--|---------------------------|
| Q How can we help you?  |  | - <b>1</b> :              |
| Home » Reporting » Service Providers » M MI   | MSW 🔹 📦 MMSW Portal User Guide                                       |                           |
| MMSW Portal User Guide  |  |                           |
| Last updated: Nov 8, 2022   |  |                           |
| MMSW Collectors and municipalities are required to submit reporting through t<br>operations (quarterly/yearly).   | he WeRecycle Portal for WPP claims (monthly/quarterly) and GHG emis  | ssions related to their   |
| Collectors can access the Portal at any time with their provided logins. MMSW h<br>claims and/or reports, manage contacts and view previously submitted data.   | as provided the resources below to assist you with understanding how | to navigate the portal, s |
| Reporting of GHG 2022 data is largely the same as last year, with some enhance  | nents to the Portal based on collector feedback, including:          |                           |
| Upload Spreadsheet – Excel template has instructions tab and list of ori  | ginating sites.  |                           |
| <ul> <li><u>Sort and Filter</u> – New options for managing list of GHG emission data of the second se</li></ul> |  |                           |
| <ul> <li><u>Attach Supporting Document</u> – Methodology must be attached directly</li> </ul>   |  |                           |
| <u>Shipping to End Markets</u> – Three options now available for distance and   | I weight.  |                           |
| All Articles Learning Guides  |  |                           |
| B WeRecycle Portal - Getting Started  | Home Page  |                           |
| Account and Contact Management  | Submit a WPP Claim via Key Entry                                     |                           |
| Submit a GHG Report via Key Entry (MMSW)  | Submit a WPP Report as Spreadsheet                                   |                           |
|   | _  |                           |
| Submit a GHG Report via Spreadsheet (MMSW)  | No Emission GHG Report (MMSW)  |                           |

- https://knowledge.werecycle.ca/Reporting/Service Providers/MMSW
- Please use the portal user guide it will make it much easier  $\bigcirc$



# **Thank You!**



