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



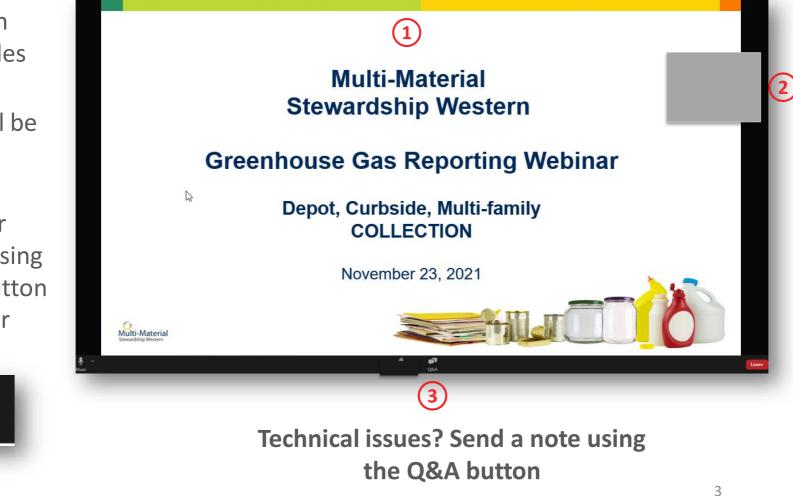
Webcast Information

Main screen (1)displays slides

2 Speaker will be on video

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

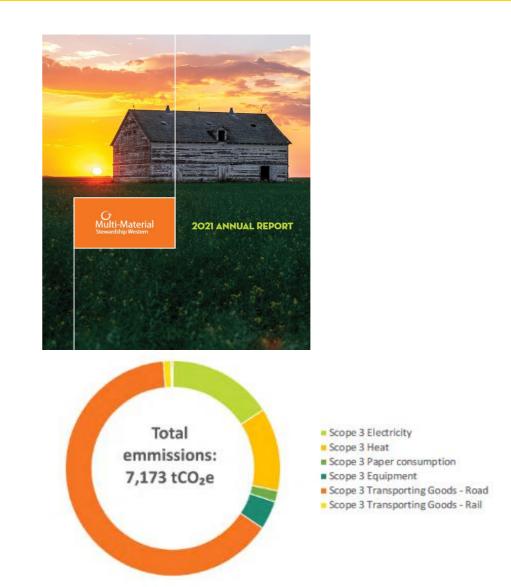
0&A



: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! 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 Measure	Qty. attributed to MMSW	Unit of 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 < 🏠		Key in Your	Report V				(
Test User Test City SH	(Test Envi	ronment			0	
Select a	Material Quantities		Report Submission	n		Multi-N 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 Measure Qty.	attributed to MMSW	Unit of 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? 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 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

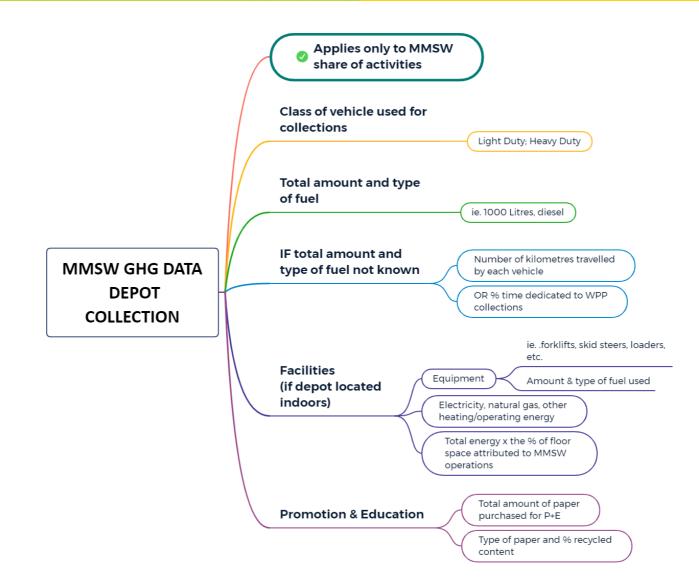


Regional Waste Authorities

- 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.

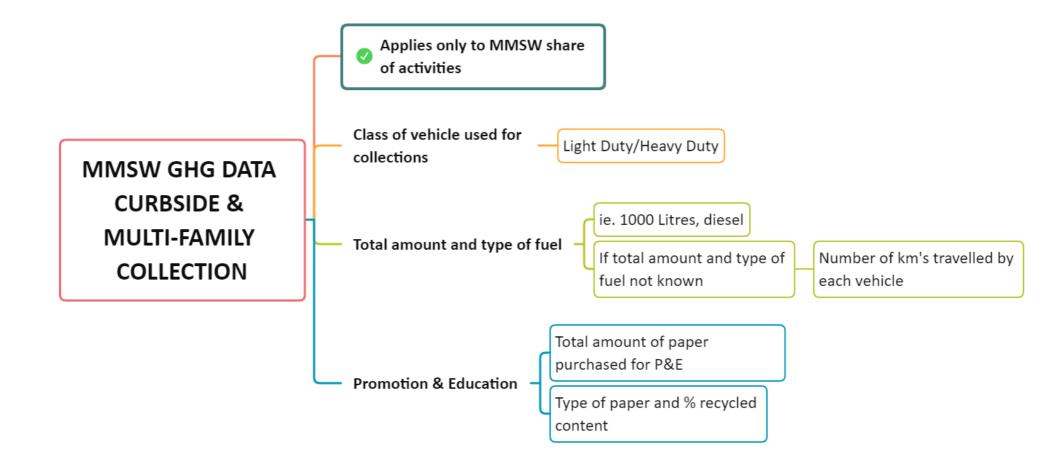


GHG Reporting for Depot Programs





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

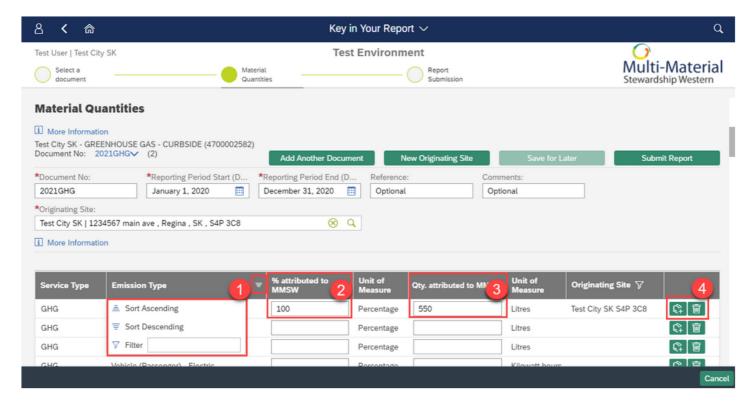


Sort & Filter

Sort & Filter Functionality:

Select the upside-down pyramid to display filter options:

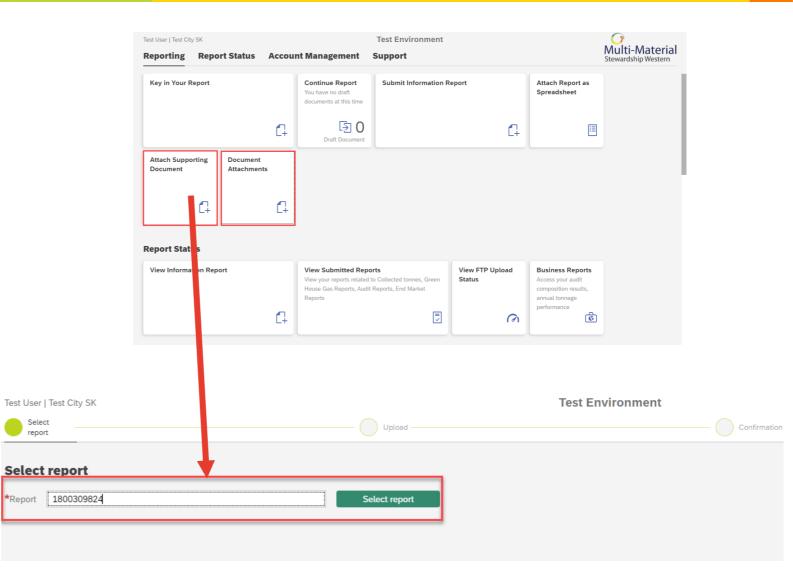
- Sort by ascending or descending emission type name
- Using the filter field: Type in your key word and hit 'enter'. To remove the filter criteria, select the icon again, delete the text and hit 'enter'.





Methodology

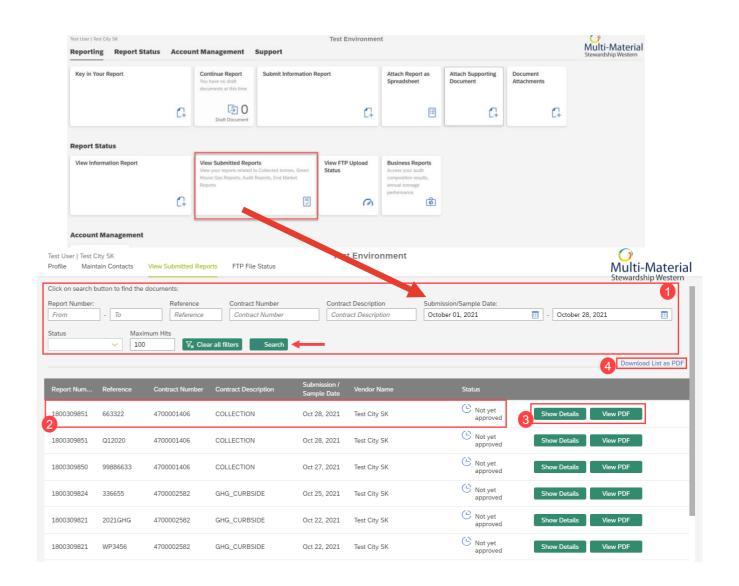
- The Attach Supporting Document tile found on the home page is where documentation can be submitted in order to support and substantiate GHG claims.
- Please have your Report Number ready (1800*****). This can be found in the View Submitted Reports section of the portal.





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 Measure	Qty. attributed to MMSW	Unit of 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 ardship Western 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 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

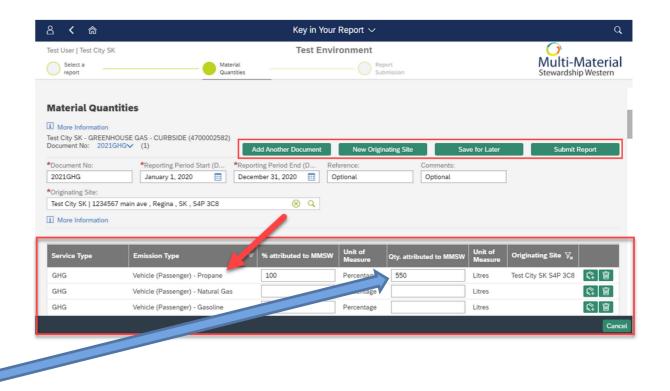
• If the collection vehicle used for your residential WPP recycling program also collects other non-WPP materials (ie. organics, garbage, commercial material, etc.) during the year, you must allocate the share of fuel or kilometres driven to only the activities involved with collection of WPP for your 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 = 600 L					
GHG						
Community B Share	20% x 750 L = 150 L					
GHG						

Select a report				Material Quantities	Tes	Environment	R	leport jubmission				Mu) Iti-Material 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 antities		Test En	vironment	Report Submissio	n				Multi-Materia Stewardship Western
			GREENHOUSE	GAS – END MARKET TRANS	PORTATION									(4)
		Material Qu - GF 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									
		Originating Site: 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



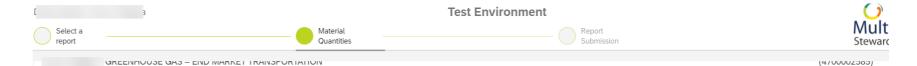


Facilities

• 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

Material Qua	antities
---------------------	----------

City of Regina - GREENHOUSE GAS - Document No: New Document			Add Another Document	New Originating Site	Save for Later	Su
*Document No:	*Reporting Period Start (DDMMYY January 1, 2020	*Reporting Period End (DDMMYY January 31, 2020	Reference:	Comments: 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 GHG	Heating - Natural Gas Heating - Natural Gas		Percentage Percentage		Cubic meter Gigajoule
	0		5		



Heating Consumption

• Record how much is being consumed at each facility

Fuel Type	Unit
Natural Gas	GJ/m3
Diesel, kerosene, light fuel oil, heavy fuel oil, propane, 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 - Test12345 (1)	DEPOT (4			A	Add Another Document	New O	riginating Site	Save for Lat	ter
MMSW		ANASW		*Document No: Test12345		*Reporting Period Start (January 1, 2020	DDMMYY	*Reporting Period End January 31, 2020	DDMMYY	Reference:		Comments: Jan - GHG - Equipm	ent data	
materials		materials		*Originating Site Community 1		L			⊗ Q					
Type of Fuel	Diesel	Type of Fuel	Dieser											
Used		Used		GHG	Emission Type		% attribut	ed to MMSW	Unit of Mea Percentage	isure	Quantity		Unit of Measu Litres	ire
				GHG	Forklift - CNG Forklift - Biodiesel				Percentage				Cubic meter	
Month	Total Fuel	Month	Total Fuel	GHG	Forklift - Diesel		25		Percentage Percentage		99.5		Litres Litres	
	Usage (L)		Usage (L)	GHG	Forklift - Natural G	as			Percentage Percentage				Litres Kilowatt hours	
January	398	January	612		Front End Loader -				Percentage				Cubic meter	
January (MMSW	398 x .25		612 x .10 =	GHG	Front End Loader - Front End Loader -		10		Percentage Percentage		61		Litres 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 notebook and lined writing paper, envelopes, fine book papers, text and cover grades (often beautiful designer papers), report covers, "post-it" notes, some 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

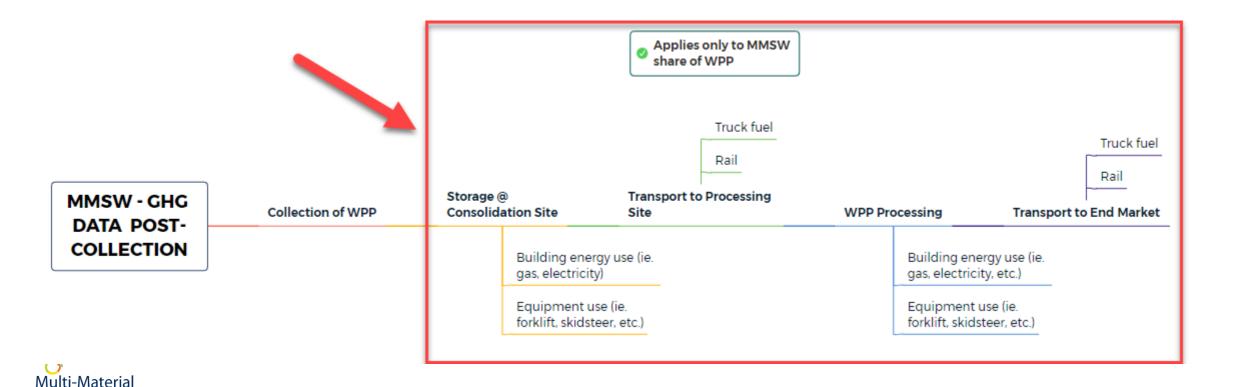
- As a municipality, regional waste authority or First Nations community, do you directly:
 - Transport collected WPP to a receiving facility such as a consolidation site or a material recovery facility (MRF)?
 - Operate/own a receiving facility such as a consolidation site or MRF?
 - Process or sort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



Post-Collection Boundaries Type 1

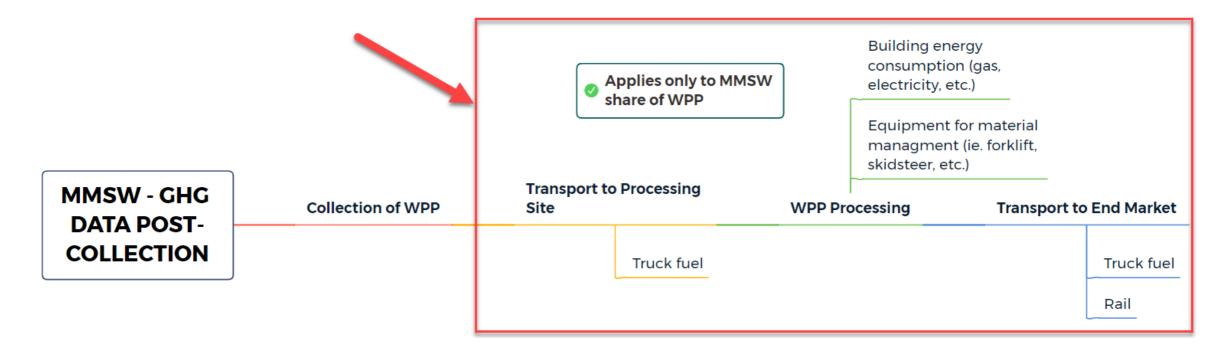
Stewardship Western

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



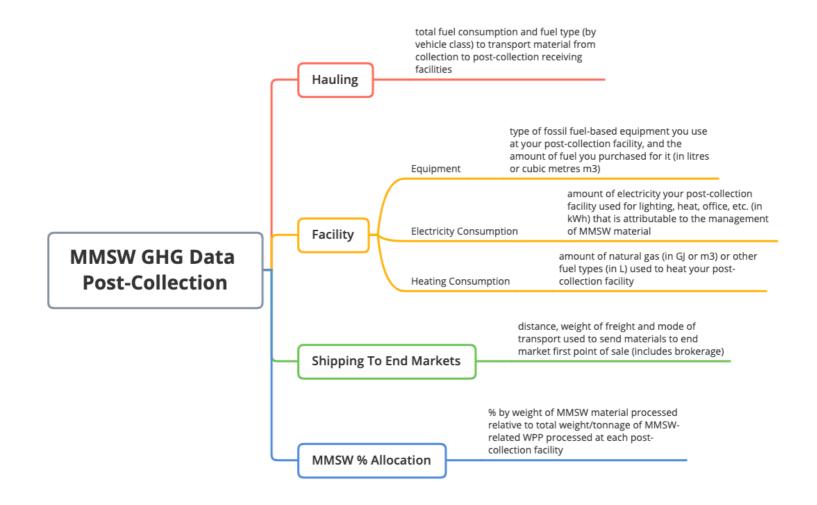
Post-Collection Boundaries Type 2

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





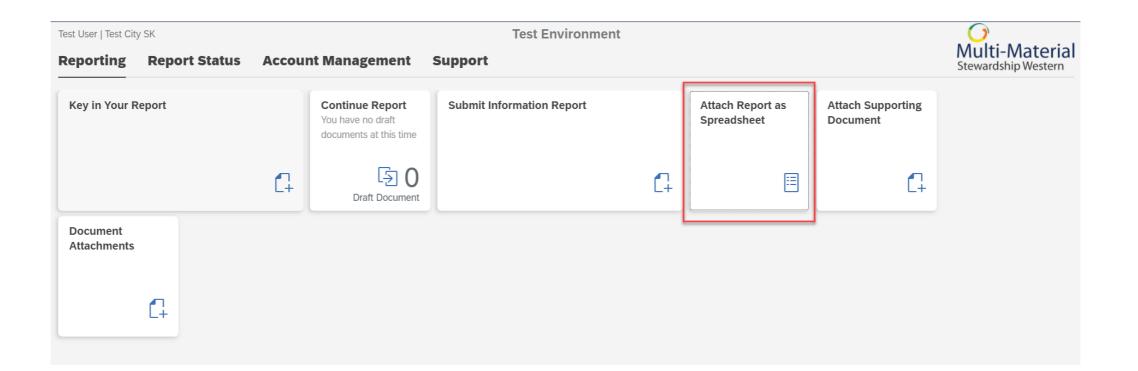
What GHG Data Do You Report for Post-collection?





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

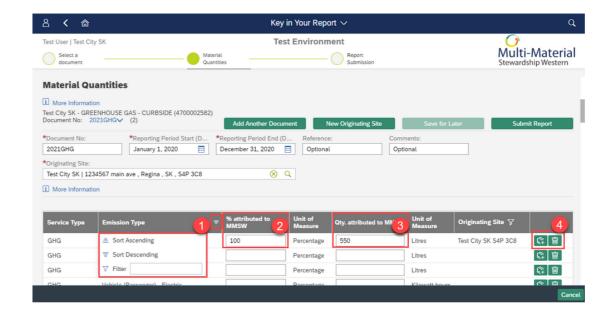


Sort & Filter

Sort & Filter Functionality:

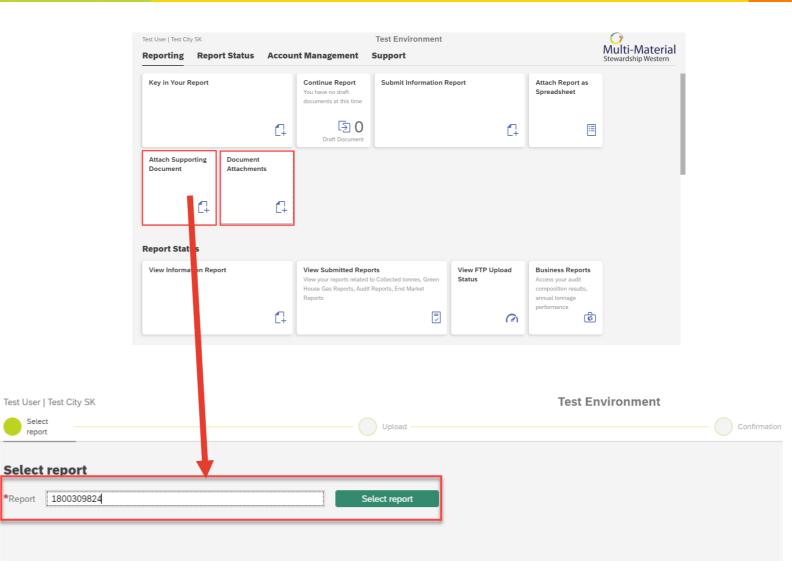
Select the upside-down pyramid to display filter options:

- 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

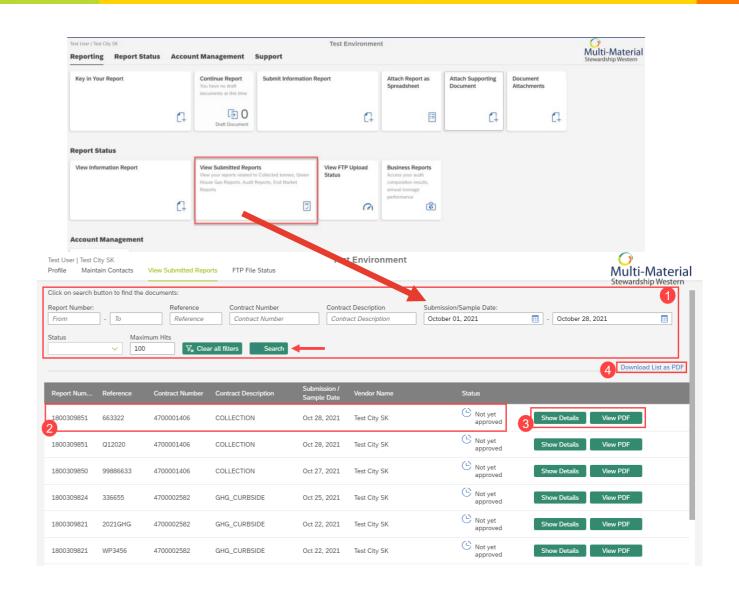
- The Attach Supporting Document tile found on the home page is where documentation can be submitted in order to support and substantiate GHG claims.
- Please have your Report Number ready (1800*****). This can be found in the View Submitted Reports section of the portal.





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 ission			Multi-Materi 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		Mmmm d, yyyy							
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		[(1) (1) (1) (1) (1) (1) (1) (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.

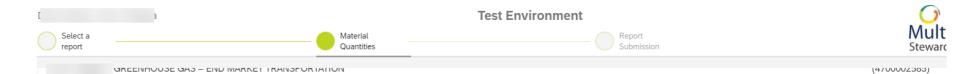


Example – Equipment

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 - Test12345 (1)	DEPOT (4			A	Add Another Document	New O	riginating Site	Save for Lat	ter
MMSW		ANASW		*Document No: Test12345		*Reporting Period Start (January 1, 2020	DDMMYY	*Reporting Period End January 31, 2020	DDMMYY	Reference:		Comments: Jan - GHG - Equipm	ent data	
materials		materials		*Originating Site Community 1		L			⊗ Q					
Type of Fuel	Diesel	Type of Fuel	Dieser											
Used		Used		GHG	Emission Type		% attribut	ed to MMSW	Unit of Mea Percentage	isure	Quantity		Unit of Measu Litres	ire
				GHG	Forklift - CNG Forklift - Biodiesel				Percentage				Cubic meter	
Month	Total Fuel	Month	Total Fuel	GHG	Forklift - Diesel		25		Percentage Percentage		99.5		Litres Litres	
	Usage (L)		Usage (L)	GHG	Forklift - Natural G	as			Percentage Percentage				Litres Kilowatt hours	
January	398	January	612		Front End Loader -				Percentage				Cubic meter	
January (MMSW	398 x .25		612 x .10 =	GHG	Front End Loader - Front End Loader -		10		Percentage Percentage		61		Litres 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: 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 = 600 L
GHG	
Community B Share	20% x 750 L = 150 L
GHG	

Select a report			Material Quantities	Tes	t Environment	Report Submission			Multi-Material 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 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 antities	Test En	vironment	Report Submission	(4	Multi-Material Stewardship Western
		Material Quan GREEN 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: 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?		- 1 :
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 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 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.	
 <u>Sort and Filter</u> – New options for managing list of GHG emission data of the second se		
 <u>Attach Supporting Document</u> – Methodology must be attached directly 		
<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!



