

Single Window GHG Reporting system: BC overview for 2013 reporting cycle

<https://ec.ss.ec.gc.ca/>

1. SWIM / BCGHG overview and updates for the 2013 cycle
2. WCI methods updates for the 2013 cycle
3. Lessons-Learnt from GHG Reporting (VBs)

Feb 12, 2014



One Window GHG Reporting system: BC overview for 2013 reporting cycle

<https://ec.ss.ec.gc.ca/>

BC One Window Guidance webpage: (2013 documents coming soon)

<http://www.env.gov.bc.ca/cas/mitigation/ggrcta/reporting-regulation/guidance/>

BC One Window announcements webpage:

http://www.env.gov.bc.ca/cas/mitigation/ggrcta/reporting-regulation/one_window.html

2012 Facility GHG Emissions report summaries (with BC Facility IDs):

<http://www.env.gov.bc.ca/cas/mitigation/ggrcta/reporting-regulation/2012-emissions-reports-pdf.html>

Email: GHGReporting@gov.bc.ca



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Single Window: SWIM

- BC Facility ID (required for 2013 emissions report) :

[Facilities](#) > [Identifiers](#) > [Identifiers](#)

Home > BCTestOrg1 > TestFac01 > Identifiers

Identifiers

* Required fields are marked with an asterisk (*).

NAICS Code Identifiers Permits

Type of Identifier AB ERCB Facility ID Number (Upstream Oil & Gas only)

Identifier

National Pollutant Release Inventory Identifier	<input type="text" value="123456"/>
BC GHG ID	<input type="text" value="1233455678"/>
BC Oil & Gas Facility Code (Upstream Oil & Gas only)	<input type="text" value="77755"/>

Single Window: SWIM

- NAICS codes – easy to locate/update within a built-in hierarchy :

Facilities > Identifiers > NAICS code

The screenshot displays the 'Identifiers' page in the SWIM application. The breadcrumb trail is 'Home > BCTestOrg1 > TestFac01 > Identifiers'. The page title is 'Identifiers'. A note states: '* Required fields are marked with an asterisk (*).' There are three tabs: 'NAICS Code' (selected), 'Identifiers', and 'Permits'. The 'NAICS Code' tab contains a table with columns 'NAICS code', 'Code', and 'Description'. The table has three rows: 'Primary' with code '211113' and description 'Conventional Oil and Gas Extraction', 'Secondary', and 'Tertiary'. A 'Delete' button is visible below the table. A search box with the value '211113' and a magnifying glass icon is present. A dropdown menu is open, showing a hierarchical tree of NAICS codes. The tree structure is as follows:

- NAICS Codes
 - 11 Agriculture, Forestry, Fishing and Hunting
 - 21 Mining, Quarrying, and Oil and Gas Extraction
 - 211 Oil and Gas Extraction
 - 2111 Oil and Gas Extraction
 - 21111 Oil and Gas Extraction
 - 211113 Conventional Oil and Gas Extraction (highlighted)
 - 211114 Non-Conventional Oil Extraction
 - 212 Mining and Quarrying (except Oil and Gas)
 - 213 Support Activities for Mining and Oil and Gas
 - 22 Utilities
 - 23 Construction
 - 31-33 Manufacturing
 - 41 Wholesale Trade
 - 44-45 Retail Trade
 - 48-49 Transportation and Warehousing
 - 51 Information and Cultural Industries
 - 52 Finance and Insurance
 - 53 Real Estate and Rental and Leasing

Single Window: SWIM

- Once you have appropriate access, BC GHG module will appear on the Home screen:

Home | My Profile | Redeem EC Key | Request Access | Organizations | ec.gc.ca

Home

Single Window Information Manager

Home

My Profile

Redeem EC Key

Request Access

Organizations

Guidance

Logout

Single Window Information Manager

Attention Internet Explorer 11 (IE11) users

A bug with the IE11 browser is affecting the display of some areas of SWIM (Single Window Information Manager). To fix this problem you need to manually change your compatibility view settings.

1. In IE11, click Tools, then Compatibility View Settings.
2. Add the SWIM website (<https://ec.ss.ec.gc.ca/>) to the Compatibility View Settings box.

This is a display issue only, be assured that your data is not affected.

Welcome Konstantin Zahariev, to Environment Canada's Single Window. The Information Manager provides a common portal to facilitate reporting of administrative information to multiple programs. For help using Single Window Information Manager (SWIM), please refer to Guidance on the left menu.



BC Greenhouse Gas
Greenhouse Gas Reporting for the province of British Columbia

[Chemicals Management Plan](#)
Jointly delivered by Environment Canada and Health Canada, the Chemicals Management Plan identifies and addresses environmental and health risks under various federal laws.




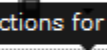














Single Window: BCGHG

- Reporting Dashboard improvements:

Reporting Dashboard

Report(s)  

Company List: TESTORG_CA-BC (20 facilities) | Year: 2013 | Report Category: Annual Report


Status	Facility Name	Report Type	Status	Actions
	▶ Test CA-BC Facility 5	L_c	Ready to Submit	
	▶ Test CA-BC Facility 4	IF_a	Submitted (01/30/2014 08:05:38)	 Actions for row #3
	▶ Test CA-BC Facility 18	EIO	Submitted (01/30/2014 08:04:28)	 
Facility Address: 456 onetwothree Lane Southeast, Healtyn (British Columbia) Modified Date/Time: 01/30/2014 08:04:28				
	▶ Test CA-BC Facility 3	SFO	Submitted (01/30/2014 08:04:09)	
	▶ Test CA-BC Facility 1	SFO	Submitted (01/30/2014 08:03:46)	
	▶ Test CA-BC Facility 2	SFO	Submitted (01/30/2014 08:03:36)	
	▶ Test CA-BC Facility 19	LFO	 (3/15)	
	▶ Test CA-BC Facility 6		New	


Custom Fuel List Add New Report

SW system: BC GHG


- Improved (and smarter) error messaging:

NAICS Code *

 • The facility physical address postal code provided does not fall within British Columbia. It should start with a "V".

Physical Address 

Geographical Address

 • Value for Latitude (N) must be between 48.00000 and 60.00000
• Value for Longitude (E) must be between -114.00000 and -134.00000

Latitude (N) (dd.mmmmm) **

Longitude (E) (ddd.mmmmm) **

- Operator Contact

SW system: BC GHG

- When entering fuel (and emissions) data:
 - Fuel units are explicit
 - “Smart” checks for required HHV and/or CC
 - Warning if HHV/CC outside expected range for that fuel

Natural Gas (Sm³)



- Weighted annual average CC (Carbon Content) of this fuel is required, based on your choice of fuel and calculation methodology for CO2 emissions.

Fuel *

Natural Gas (Sm³)

Annual Fuel Amount *

111.12

Annual Weighted Average High Heating Value (GJ/unit fuel) **

35

Annual Weighted Average Carbon Content (weight fraction) **

Annual Steam Generation (kg) **

66

Emissions for Fuel

N/A	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>				
<input type="checkbox"/>	CO2 nonbio	Methodology 3 (measured CC/\$)	5.5	5.5
<input type="checkbox"/>	CH4	Default HHV/EFc	5.5	115.5
<input type="checkbox"/>	N2O	Measured HHV/EFc	2.2	682.0

SW system: BC GHG

- Additional info in Comments page:
 - Electricity Consumption (kWh)
 - List of facilities contained in L_c report

Comments

Report Progress: 6/6 Page Status: Incomplete

- This section is optional.

- Enter any comments you wish to include related to the information you have reported.
- Comments provided are **not** published.
- You may provide additional comments related to the reported GHG emissions data to better explain your information. (e.g. justification of any large changes in emissions from the previous year.)
- Enter your company or facility website if you wish to provide more information. (e.g. contextual information on environmental activities, etc.)

Website

Electricity Consumption (kWh)

Names of the facilities represented in this L_c report.

Facility Name: *

Comments: (max 4000 characters)

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Web: <http://www.env.gov.bc.ca/cas/mitigation/ggrcta/reporting-regulation/amendedquantificationmethods.html>

Feb 12, 2014



WCI methods updates for 2013 reporting cycle

- **Changes due to direct changes in Regulation for 2013 reporting**

- NONE – the Reporting Regulation is the same, has not been updated for 2013

- **Changes due to WCI quantification methods updates for 2013 reporting**

- Some quantification methods were updated Dec. 2013 for 2013 reporting:
 - WCI.350 and WCI.360 methods were updated
 - other minor changes to various activities

- **NOTE: Current WCI quantification methods documents, as applicable:**

- WCI Essential Requirements for Mandatory Reporting – 2013 Addendum to Canadian Harmonization Version
- Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2012 Update)
- Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2011)

WCI methods updates for 2013 reporting cycle

Summary of Activities and applicable WCI documents (1 of 2)

WCI Essential Requirements for Mandatory Reporting – 2013 Addendum to Canadian Harmonization Version				Bolded Year:	Major update
Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2012 Update)				Green hilghlight:	Last complete copy
Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2011)					
2013	2012	2011	Attributable Activity		
	2012	2011	§ WCI.020 General Stationary Combustion		
		2011	§ WCI.030 Refinery Fuel Gas Combustion		
	2012	2011	§ WCI.040 Electricity Generation		
		2011	§ WCI.050 Adipic Acid Manufacturing		
		2011	§ WCI.060 Imported Electricity		
		2011	§ WCI.070 Primary Aluminum Production		
		2011	§ WCI.080 Ammonia Manufacturing		
2013	2012	2011	§ WCI.090 Cement Manufacturing		
		2011	§ WCI.100 Coal Storage		
		2011	§ WCI.110 Electronics Manufacturing		
		2011	§ WCI.120 HCFC-22 Production and HFC-23 Destruction		
2013		2011	§ WCI.130 Hydrogen Production		
		2011	§ WCI.140 Glass Production		
		2011	§ WCI.150 Iron and Steel Manufacturing		
2013	2012	2011	§ WCI.160 Lead Production		
		2011	§ WCI.170 Lime Manufacturing		
		2011	§ WCI.180 Carbonates Use		
		2011	§ WCI.200 Petroleum Refineries		

WCI methods updates for 2013 reporting cycle

Summary of Activities and applicable WCI documents (2 of 2)

WCI Essential Requirements for Mandatory Reporting – 2013 Addendum to Canadian Harmonization Version				Bolded Year:	Major update
Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2012 Update)				Green highlight:	Last complete copy
Final Essential Requirements for Mandatory Reporting – Amended for Canadian Harmonization (2011)					
2013	2012	2011	Attributable Activity		
	2012	2011	§ WCI.210 Pulp and Paper Manufacturing		
		2011	§ WCI.220 Soda Ash Manufacturing		
2013		2011	§ WCI.230 Electricity Transmission (and Emissions from Electr. Equip. in El. Generation)		
2013	2012	2011	§ WCI.240 Zinc Production		
		2011	§ WCI.250 Underground Coal Mines		
2013		2011	§ WCI.260 Nickel and Copper Metal Production		
		2011	§ WCI.270 Ferroalloy Production		
2013		2011	§ WCI.280 Mobile Equipment at Facilities		
		2011	§ WCI.290 Magnesium Production		
		2011	§ WCI.300 Petrochemical Manufacturing		
		2011	§ WCI.310 Nitric Acid Manufacturing		
2013		2011	§ WCI.340 Phosphoric Acid Production		
2013	2012	2011	§ WCI.350 Natural Gas Transmission and Distribution		
2013	2012	2011	§ WCI.360 Petroleum and Natural Gas Production and Natural Gas Processing		

WCI methods updates for 2013 reporting cycle

Non-Oil/Gas 2013 updates (examples):

32. **WCI.282(b) (Mobile Combustion)** is amended by changing “litres” to “kilolitres”
33. **WCI.132(b) (Hydrogen Production)** is amended by changing “litres” to “kilolitres”
34. **WCI.343(a) (Phosphoric Acid Production)** is amended by changing “carbonate” to “carbon”:
 - a. The C_f parameter definition is revised so that “carbonate” instead reads “carbon”
 - b. The 3.664 parameter definition is revised to append “from Carbon to CO₂” at the end of the existing definition
35. **WCI.090 (Cement Production)** is amended by accounting for the contribution of organic carbon component
 - a. In WCI.91, the word “natural” is replaced by “ordinary Portland”
36. **WCI.261 (Nickel and Copper Metal Production)** is amended by changing “three main processes” to “four main processes” and adding “as well as the SX-EW process” after “carbon electrodes in electric arc furnaces”

WCI methods updates for 2013 reporting cycle

Oil/Gas 2013 updates (WCI.350 and WCI.360): (1 of 2)

Substantive Oil and Gas Updates		
Section	Update	Rationale
353(a), 352(a.1) 363(a), 363(a.1) Tables 350-6, 360-6 High bleed pneumatic devices and pumps and 353(b.1), 363(b.1) Intermittent bleed devices	Incorporates results of BC pneumatic field study, makes metering optional and provides for more detailed equations which would allow for more accurate quantification if a facility has sufficient information. Allows manufacturer data to be used for compressor starters.	Results of the Prasino field study of 765 BC pneumatic devices and pumps have been incorporated. Results provide high quality emission factors based on statistically valid data and replace previous inaccurate emission factors. Addresses data gap for some compressor starters
363(c) Acid gas removal	Prioritizes quantification using outlet meter data, provides flexibility for differing H ₂ S content knowledge and clarifies calibration requirements for AGR inlet meters due to corrosivity of acid gas	Calculation using outlet gas volume removes approximate 6% high bias from inlet gas calculation.
353(c.1) and 363(g.1) Third-party line hits	Allows for use of method in development by the Canadian Energy Partnership for Environmental Innovation, quantification method for service tee drill or punch opening hits, and weighted average approach to be used for punctures. Corrects technical issues and modifies the delineation for use of the two quantification methods.	Existing third party line hit method was applicable to transmission and gathering systems, but not distribution systems. New method for distribution systems is in development and is incorporated by reference when complete.
353(e), 363(l) Centrifugal compressor venting and 353(f), 363(m) Reciprocating compressor venting	Clarifies the compressor's operational modes and ensures that all emissions from compressor modes are summed. Corrects overestimate for small centrifugal compressors using default emission factors.	Clarification, error correction and addresses potential safety issue.

WCI methods updates for 2013 reporting cycle

Oil/Gas 2013 updates (WCI.350 and WCI.360): (2 of 2)

363(h) Storage tanks	Allows for two additional quantification methods (including new California method) to be used given the inherent uncertainty of storage tank emissions quantification	Allows for use of correlation equation methods currently used by industry which are the same or better level of accuracy as existing methods – storage tank quantification is inherently uncertain unless flash test method is used.
363(o) Population count	Clarifies interaction of population count and leak detection methods	Allows for higher accuracy leak detection method to be used for facilities where not required.
357 and 367 Tables and Direction for use of Tables	Updates tables for results of BC pneumatic study and revised EPA factors and adds missing column. Clarifies language and ensures that industry updated emission factors are required only when they can be reasonably developed using existing leak detection data	Incorporates revised BC and EPA tables, adds missing data. Clarifies application when previously a significant burden could have been interpreted to be the intent of the clause.

NOTE: You could peruse the unofficial redline versions of WCI.350 and WCI.360

Current versions of quantification methods:

[WCI Essential Requirements for Mandatory Reporting – 2013 Addendum to Canadian Harmonization Version \(December 20, 2013\)](#) (PDF)

Unofficial redline version incorporating December 20, 2013 updates to [WCI.350](#) (PDF) and [WCI.360](#) (PDF)

Web: <http://www.env.gov.bc.ca/cas/mitigation/ggrcta/reporting-regulation/amendedquantificationmethods.html>

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Lessons-Learnt from GHG Reporting (Industry)

•In SWIM:

- Please use consistent facility/company names
- Geographic coordinates need to be to 5 decimal places, not less, and within BC
- Please enter the facility BC Facility ID in SWIM before you get to your 2013 report (you can get it from 2012 published reports)
- Make sure you do not have multiple levels of access roles:
problems may occur as lower access interferes with higher level access
So leave only the highest level access role you need
And delete all concurrent lower access roles **you** have

The screenshot shows the 'Manage Access' page in the SWIM system. The page title is 'Manage Access' and it contains a table of users with access to the organization. The table has two columns: 'User' and 'Role'. There are two rows of data, both for 'Konstantin Zahariev'. The first row shows the role 'BC Greenhouse Gas Reporting Lead - All Facilities' and the second row shows 'Single Window Information Manager SWIM Organization Lead'. There are buttons for 'Grant Access...' and 'Delete all selected'.

Home > BCTestOrg1 > Manage Access

Single Window Information Manager

Home

My Profile

Redeem EC Key

Request Access

Organizations

BCTestOrg1

Contacts

Parent Organizations

Manage Access

Facilities

Manage Access

The table below contains all of the users that have access to your organization. To create program r use the Grant Access function. Users roles and permissions can be removed by selecting users and us

Grant Access...

	User	Role
<input type="checkbox"/>	Konstantin Zahariev	BC Greenhouse Gas Reporting Lead - All Facilities
<input type="checkbox"/>	Konstantin Zahariev	Single Window Information Manager SWIM Organization Lead

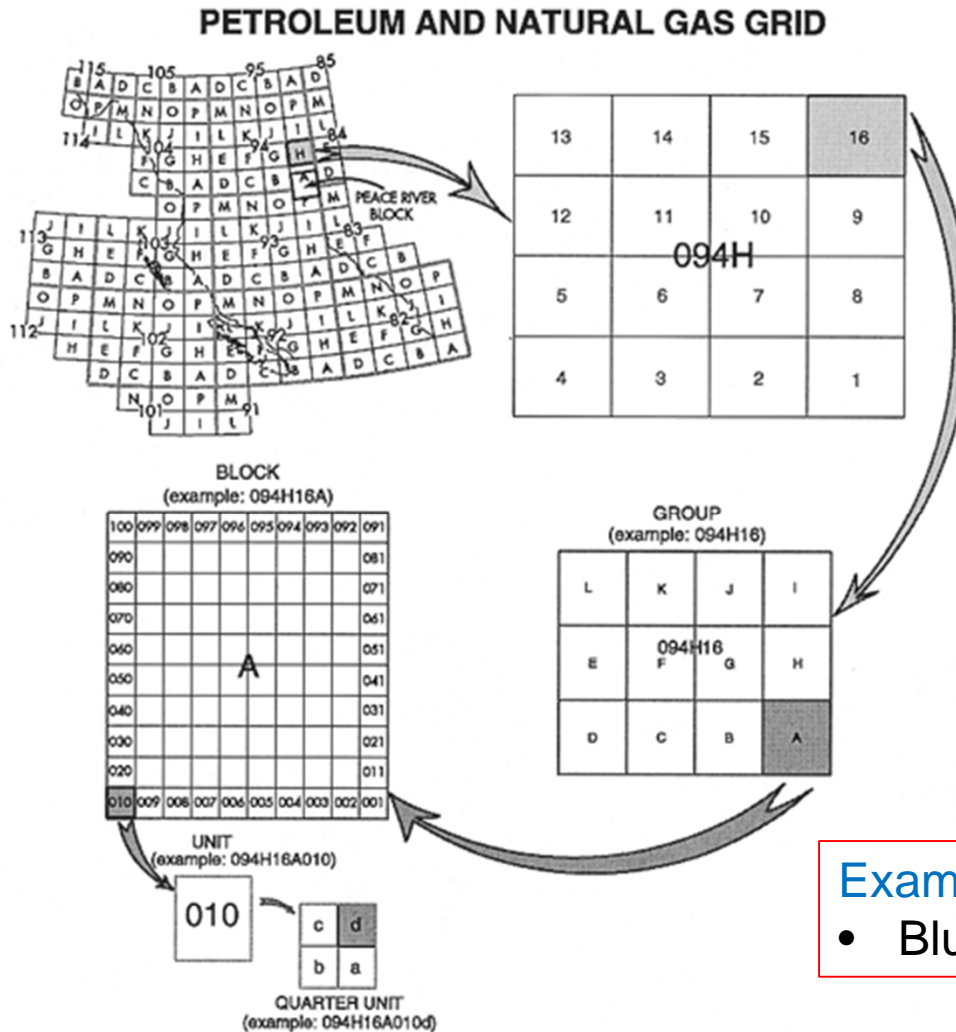
<< < Page 1 / 1 > >>

Delete all selected

Lessons-Learnt from GHG Reporting (Industry)

- In SWIM

- Enter PNG grid coordinates as part of facility name where no physical address:



Example:

- Blueberry D-50-C/94-A-13

Lessons-Learnt from GHG Reporting (Industry)

• In SWIM/BCGHG:

- The Operation Representative has to be of appropriate seniority (it's a regulatory requirement)
- Enter their Position in SWIM > Contacts

"operation representative" means,

(a) in the case of a single operator of a reporting operation,

(i) if the operator of the reporting operation is an individual, the operator,

(ii) if the operator of the reporting operation is a corporation,

(A) a senior officer of the corporation, or

(B) the individual with primary responsibility for the operations and management of the reporting operation, or

Lessons-Learnt from GHG Reporting (Industry)

• In SWIM:

- Check that NAICS codes are correct and in the right order (Primary)

The screenshot displays the 'Identifiers' page in the SWIM system. The left sidebar contains navigation options: Single Window Information Manager, Home, My Profile, Redeem EC Key, Request Access, Organizations (with sub-items BCTestOrg1, Contacts, Parent Organizations, Manage Access, Facilities, and TestFac01), and Identifiers (highlighted). The main content area is titled 'Identifiers' and includes a note: '* Required fields are marked with an asterisk (*).'. Below this, there are three tabs: 'NAICS Code' (highlighted), 'Identifiers', and 'Permits'. A table lists NAICS codes with columns for 'NAICS code', 'Code', and 'Description'. The first row is marked 'Primary' and has the code '211114' with a search icon. The second row is marked 'Secondary' and has the code '486210' with a search icon. The third row is marked 'Tertiary' and has an empty code field with a search icon. At the bottom of the table, there are two buttons: 'Delete all selected' and 'Save NAICS Code'.

	NAICS code	Code	Description
<input type="checkbox"/>	Primary	211114	Non-Conventional Oil Extraction
<input type="checkbox"/>	Secondary	486210	Pipeline Transportation of Natural Gas
	Tertiary	<input type="text"/>	

Lessons-Learnt from GHG Reporting (Industry)

• In BCGHG:


➤ Entering data

- Additional information required to be reported for each quantification method must be entered (e.g. CC, HHV, emissions by fuel type, amount of fuel consumption, etc.)
- Ensure mandatory additional reportable information (file upload) is provided

- Additional Reportable Information as per WCI.352(i)(1)-(12)

Volume of Natural Gas Throughput (BOE) **

File Name Date

Version: 3.1.2

Lessons-Learnt from GHG Reporting (Industry)

- In BCGHG:

- Uploading files

- Please make sure uploaded files are not password-restricted or locked in any way
 - If possible, avoid uploading pdf image files – readable pdf or the source Word file is preferred (easier to process contents)
 - Only upload the Verification statement/report in the LFO (or SFO) report
no need to also upload copies to each IF_a, IF_b, L_c facility reports

Lessons-Learnt from GHG Reporting (Industry)

- In BCGHG:

- Facility report configuration within a LFO

- BCGHG uses non-overlapping domains for facility types/reports:

- Type IF_a means facility with emissions $E \geq 10,000$ tCO₂e

- Type IF_b means facility with emissions $1,000 \leq E < 10,000$ tCO₂e

- Type L_c means *aggregate* report for all facilities

- with emissions $E < 1,000$ tCO₂e

- This avoids (perception of) asking for duplicative information
(whereas Reporting Reg. S. 12(4)(c) refers to aggregate info for all
with emissions $E < 10,000$ tCO₂e)
- It also makes E checks more intuitive for all LFO-related reports:
 $E(\text{LFO}) = \text{sum}(E(\text{IF}_a)) + \text{sum}(E(\text{IF}_b)) + E(\text{L}_c)$

Lessons-Learnt from GHG Reporting (VBs)

• Verification Bodies:

- Updated 2013 Verification Statement and Conflict of Interest templates will be available shortly on our website
- Ministry now publishes verification status /verification body (see 2012)
- Ministry is doing site visits and as part of that we review verification results
- Verification site visits requirements and timing:

23 (3) Site visits required under subsection (2) (d) must comply with the following:

(a) for a single facility operation, a visit to the facility;

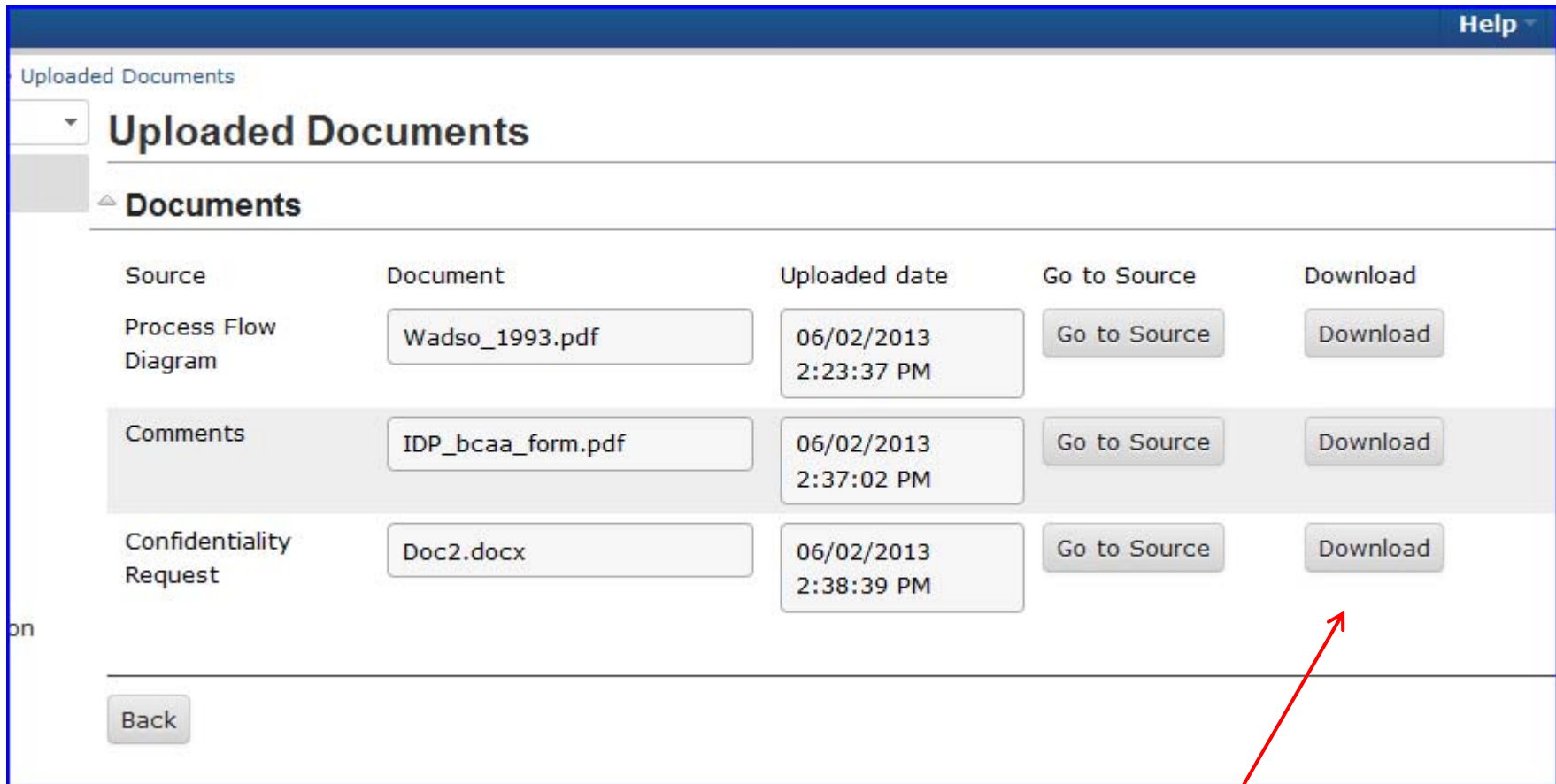
(b) for a linear facilities operation, at least one site visit must be made to each individual facility within a reporting operation where emissions exceed 25 000 tonnes of carbon dioxide equivalent;

(c) for both single facility operations and linear facilities operations, at least one site visit must be made to the head office, regional office or other location of central data management, if different from the facilities visited under paragraph (a) or (b);

(d) for a linear facilities operation, additional site visits must be made to sources within the operation if necessary to provide a reasonable level of assurance that the emissions report is materially correct.

Lessons-Learnt from GHG Reporting (VBs)

- See all uploaded files in one place:
 - accessible from left-hand menu (at bottom)



The screenshot displays a web interface titled 'Uploaded Documents'. It features a table with the following columns: Source, Document, Uploaded date, Go to Source, and Download. The table lists three documents: 'Wadso_1993.pdf' (uploaded 06/02/2013 at 2:23:37 PM), 'IDP_bcaa_form.pdf' (uploaded 06/02/2013 at 2:37:02 PM), and 'Doc2.docx' (uploaded 06/02/2013 at 2:38:39 PM). A red arrow points to the 'Download' button for the 'Doc2.docx' document. A 'Back' button is located at the bottom left of the interface.

Source	Document	Uploaded date	Go to Source	Download
Process Flow Diagram	Wadso_1993.pdf	06/02/2013 2:23:37 PM	Go to Source	Download
Comments	IDP_bcaa_form.pdf	06/02/2013 2:37:02 PM	Go to Source	Download
Confidentiality Request	Doc2.docx	06/02/2013 2:38:39 PM	Go to Source	Download

- Files attached to a report can be downloaded for examination

Lessons-Learnt from GHG Reporting (VBs)

- Please check that all information noted in previous slides for industry has been properly entered (including admin. data)
- Please ensure that emission ratios for secondary gases make sense and that totals for smaller fuels are properly calculated

For example, that CH₄ and N₂O emissions makes sense for a CO₂ emission from a given amount of combusted fuel.

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QUESTIONS / FEEDBACK?

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Email: GHGReporting@gov.bc.ca



Ministry of Environment



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