-March 15, 2019 File: 280-20 CLIFF/eApprovals #: 340680/13568

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy (ENV)

**SUBJECT:** Minister meeting with the College of Applied Biology to discuss the Professional Governance Act (PGA), including the Right to Practice and how it affects scope of practice.

#### **BULLET RESPONSE:**

## Practice Rights

- The College of Applied Biology (College) submitted feedback to the intentions paper on March 4, 2019, outlining the work they have commenced to support the granting of practice rights to the College, including:
  - Holding scope of practice workshops across the province with registrants, other professions and non-registered applied biology practitioners;
  - Working with other regulating professional associations to define mechanisms to address overlap issues when they arise; and
  - Establishing a Credentials Task Force for developing achievable pathways for non-registrant biologists to become accredited, regulated professionals.
- s.13

#### Discipline hearing

- Since 2003, the College has received 59 complaints filed against registrants regarding conduct issues with 10 percent% resulting in a conditional admission of wrongdoing which usually leads to some form of sanction (e.g. the registrants profession practice is subject to review).
- The College's first discipline hearing took place in 2018 for an R.P.Bio accused
  of professional misconduct in his dealings with the District of Saanich's
  Environmental Development Permit Area (EDPA) (since repealed).
- The College issued a citation alleging that the respondent was in conflict of
  interest, made negative personal comments about a fellow R.P.Bio and staff
  person at Saanich, and did not undertake proper due diligence in his work and
  reports regarding exempting properties from the EDPA.
- The College received a signed discipline decision on Dec 6, 2018, from the Disciplinary Panel confirming that the respondent contravened Principles 3, 4 and 8 of the Code of Ethics.
- The sanction phase of the disciplinary process has yet to commence.

## Indigenous knowledge training

• The College believes that the path ahead needs to recognize Indigenous Knowledge and the role it plays in resource management.- To that end, the College has accredited three training providers that provide applied biology technician training in Indigenous communities.

Contact:Alternate Contact:Prepared by:Jennifer McGuire, ADMLeon GaberRebecca FreedmanEnvironmental SustainabilityProfessional RelianceProfessional Relianceand Strategic Policy DivisionESSPESSP250-387-9997778-698-4850778-698-4862

[Insert additional rows if needed]

E	NV Approva	als						
Reviewed by	Initials	Date						
DM	MZ	March 27/19						
DMO	<u>KK</u>	March 26/19						
ADM	JLM	March 25/19						
Dir./Mgr.	<u>LG</u>	March 21/19						
Author	RB	March 12/19						

March 21, 2019 File: 280-20 CLIFF/eApprovals #: 343400/13918

**PREPARED FOR:** Honourable John Horgan, Premier of British Columbia

**SUBJECT:** Recommendation on an invitation from Transport Canada to a Southern Resident Killer Whale Traffic Separation Scheme Technical Workshop, March 29 2019 – decline invitation

#### **BULLET RESPONSE:**

- Transport Canada colleagues in Ottawa have formally flagged to provincial staff that this meeting on March 29, 2019, has been cancelled.
  - Transport Canada has heard from Indigenous groups that they would prefer bilateral conversations on the scope of the study, therefore it is unlikely that this meeting will be rescheduled.
- The Premier was invited to provide a welcome at this event by an attendee (Lorne Underwood, Tsawout First Nation), not by the organizer, Transport Canada.
  - Due to this, the Premier's Office will likely not receive a formal cancellation of the event.

#### Background

- The Government of Canada is leading multiple simultaneous efforts to advance the protection and recovery of southern resident killer whales (SRKWs).
  - Timelines are extremely tight, with some proposed measures expected to come into place this spring.
- Transport Canada is leading all vessel traffic-related measures to protect SRKWs and was leading the SRKW Traffic Separation Scheme Technical Workshop ("workshop"), now cancelled.
- This workshop was intended for Indigenous groups and Tribes from Canada and the US.
- The workshop was to be a technical-level forum to discuss very preliminary ideas about possible additional measures to address marine transportation-related threats.
  - Possible measures may include trials to move traffic within the shipping lanes further away from key foraging areas; voluntary vessel slowdowns to reduce shipping-related noise; or, putting in place a buffer zone/distance limit for whale watching and recreational boats.
- This is the very initial stage of considering other vessel-related measures.
  - The purpose of the workshop was to scope a potential feasibility study to determine if these are ideas that can even be considered.
  - Significant work, including future workshops, would be necessary to advance any of these possible measures. For instance, it would likely be years before something such as moving an international shipping lane could be completed.

## **Contact:**

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## Prepared by:

Kira Stevenson, Sr Policy Advisor ESSP, Strategic Policy Branch 778-698-4401

EN	V Approvals	S
Reviewed by	Initials	Date
a/DM	JS	Mar 21/19
DMO	DC	Mar 21/19
ADM	n/a	
Dir./Mgr.	LP/AD	Mar 21/19
Author	KS	Mar 21/19

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s.13

May 4<sup>th</sup>, 2018 CLIFF/tracking #: 315286

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**SUBJECT:** Meeting with Cement Association on May 8 at 2:30pm regarding: 1) use of waste materials as a lower carbon fuel; 2) mandate use of portland-limestone cement (PLC); 3) mandate "best bid wins" philosophy.

#### **BULLET RESPONSE:**

#### Issue

- The Cement industry is asking the Province to prohibit the construction of new waste incinerators and direct Metro Vancouver (MV) to consider using municipal solid waste (MSW) to produce lower carbon fuels for use in cement kilns.
- The Cement industry wants the province to mandate the use of PLC cement used in all BC public sector infrastructure and apply a three-screen process for bids that includes life cycle-cost, lowest carbon, and best available solution.

### **Background**

- Regional Districts (RDs) are responsible under the Environmental Management Act (EMA) to manage municipal solid waste (MSW) and recyclable material through the development and implementation of a solid waste management plan (SWMP) and bylaw(s). SWMPs are approved by the Minister.
- MV has delegated authority under EMA to regulate air discharges within its geographic boundary.
- In December 2015, MV put their new waste-to-energy (WtE) procurement process on hold, citing uncertainty around future waste volumes and continued reduction in residual waste.
- The Province had previously provided the cement industries with \$27M in capital support for upgrades that allow for additional alternative fuel capacity.
- MV has been undertaking test pilots in regards to drying of biosolids and feasibility studies for material sorting facilities for construction and demolition materials, two material sources of interest to the Cement industry.

#### Discussion

## 1) Use of waste materials as low carbon fuel

- The use of waste materials as a feedstock for alternative fuel will require an amendment to MV's existing SWMP, an operational certificate or permit, and public consultation.
- This process is considered a disposal activity. Solid waste materials going to cement kilns for alternative fuel, such as tires, has received negative reaction from stakeholders.

Ministry policy is based on the 5 R pollution prevention hierarchy which
prioritizes solutions that achieve higher levels of waste reduction, product reuse
and recycling. Energy recovery processes (including low carbon fuel transition)
are an allowable activity under the *Environmental Management Act*, but should
only be undertaken once the higher options have been considered. For example,
non-recyclable plastic residuals from a recycling facility.

s.13;s.16

#### **Discussion: 2) Mandate portland-limestone cement (PLC)**

- Climate Action Secretariat (CAS) has published guidance for public sector organizations (PSO) on the use of low carbon materials within LEED – i.e. how use of these materials counts towards LEED certification.
- Federal Government Leadership Group under CCME/Pan-Canadian Framework
  has proposed doing a lifecycle assessment (LCA) of different building materials
  to help inform Provinces and Territories making policy for PSO buildings.

s.13

## Discussion: 3) Mandate "best bid wins" philosophy

 BC is reviewing its procurement practices (CITZ/JTT Procurement Transformation Project) that may put greater emphasis on non-budgetary considerations in public procurement, including potentially the three-screen approach.

#### **Recommended Response**

## 1) Use of waste materials as low carbon fuel

- The Ministry cannot direct MV to consider producing fuel from waste materials or prohibit the construction of new waste incinerators.
- The use of refuse derived fuel as a low carbon fuel is not consistent with a circular economy approach. Alternative fuel solutions must ensure they do not hamper efforts to achieve higher levels of waste prevention, recycling and investment in activities ranked higher in the waste hierarchy.
- Public consultation would be required for MV to take this approach as they would need to revise their SWMP. Increasing capacity in the region for any incineration or burning of waste would likely receive significant stakeholder opposition.
- The Ministry encourages the Cement Association of Canada to discuss their business case with MV as the responsible authority for solid waste management and the regulator of air dischargers.

## 2) Mandate portland-limestone cement (PLC)

s.13

## 3) Mandate "best bid wins" philosophy

• BC is reviewing its procurement practices but decisions on this are not likely until 2019 and beyond.

Contact:Alternate Contact:Prepared by:David Morel, ADMSonya Sundberg,Avery Gottfried/David ConeyEnvironmental ProtectionDirectorSenior Policy Specialist/ManagerDivisionEPD/Vic/ESBEPD/Vic/ESB / ENV/CAS778 698-5461778-698-4906778-584-1824

ENV	V Approvals	
Reviewed by	Initials	Date
DM	MZ	18/05/07
DMO	KK	18/05/07
ADM	TG	18/05/07
ED	КО	18/05/04
Dir./Mgr.	SS	18/05/04
Author	AG	18/05/04

## MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY INFORMATION NOTE

March 25, 2019 File: 280-20

CLIFF/eApprovals #: 343276/13889

PREPARED FOR: Honourable John Horgan, Premier of British Columbia

**ISSUE:** Update on the Victoria Wastewater Treatment construction program

#### **BACKGROUND:**

The Capital Regional District (CRD) Wastewater Treatment project began construction activities in the spring of 2017 at the site of the new McLoughlin Point Wastewater Treatment Plant. The new wastewater treatment system is expected to be fully operational by December 31, 2020, in accordance with provincial and federal requirements. A project overview map is provided in appendix 2.

The major project construction components are on track and are expected to be completed by the fall of 2020. The table below provides additional detail about construction timelines for the major project components.

<b>Major Project Construction Components</b>	Date Started	Timeline for Completion
McLoughlin Point Treatment Plant and outfall to the Strait of Juan de Fuca	Spring 2017	Fall 2020
Macaulay Point pump station and forcemain to McLoughlin Point	March 2018	Summer 2020
Sludge/residual pipeline from McLoughlin Point to Hartland Landfill	February 2019	Spring 2020
Residual Treatment Facility at Hartland Landfill	February 2018	Fall 2020
Clover Point pump station and Dallas Road forcemain to McLoughlin Point	October 2018	Summer 2019

The project is expected to cost \$765M, funded by the CRD (\$306 million), British Columbia (\$248 million), and the federal government (\$211 million). The CRD is responsible for any additional costs.

The project is still considered to be on budget. However, as reported in media in January 2019, and confirmed to ENV by CRD staff, there are cost pressures on certain aspects of the project, primarily as a result of escalation in the Vancouver Island construction market. The CRD is evaluating options to keep project on budget. An update will be provided to the Project Board on April 12<sup>th</sup> on this topic.

CRD project staff also report that the CRD continues to invest significant efforts in communications and engagement and has built good relationships with the Project's many stakeholders, including federal, provincial and local governments and First Nations, as well as local businesses and residents. Construction has and will continue to cause localized traffic and noise impacts to CRD residents. Detailed neighbourhood and street level construction updates and notices are available to the public on the <u>CRD project webpage</u>.

Provincial waste-discharge authorization processes under the *Environmental Management Act* are occurring concurrent with construction activities and are on-track for completion well in advance of the December 2020 deadline for project completion. Attached are a map of the project and the project dashboard indicating progress on construction.

The Ministry of Municipal Affairs and Housing (MAH) is leading the provincial contribution in collaboration with Infrastructure Canada. MAH and the CRD project team keep in close contact as the project was folded by MAH.

has been in discussions with the CRD about the cost increases and are working toward mitigative measures to ensure the project will meet its originally approved scope, schedule and budget.

#### **SUMMARY:**

CRD appears to be on track to complete the Wastewater Treatment Project in accordance with the December 2020 deadlines. ENV staff remain in close contact with CRD project staff in relation to waste discharge authorization processes that are currently underway. The CRD is actively communicating with residents by way of project updates and detailed construction notices on their website.

#### **Attachments:**

- 1. Key Performance Indicators
- 2. Project Overview Map

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Reviewed by	Initials	Date
DM	MZ	Mar 28/19
DMO	KK	Mar 27/19
ADM	DM	Mar 26/19
Dir./Mgr.	AJD	Mar 25/19
Author	BV	Mar 25/19

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March 19, 2019 File: 280-20 BN CLIFF/eApprovals #:343383/13913

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy (ENV)

**SUBJECT:** Eagle Valley News Article – Ag Waste Regulatory Changes

#### **BULLET RESPONSE:**

- Ministry staff will verify the accuracy of the high-risk map for the Shuswap Lake Basin. If needed they will make necessary changes to ensure that all critical areas are included including the Shuswap River.
- Although the phosphorus-based triggers for nutrient management plans do not come into effect until 2024, many protective requirements come into effect immediately. These include:
  - o requiring soil testing;
  - prohibiting the release of contaminated runoff and leachate from farms into watercourses or beyond the property boundary;
  - prohibiting the land application of manure and other nutrient sources on snow-covered or frozen land, or in any conditions that result in the escape of nutrient sources;
  - limiting the amount of nutrients, including manure, that can be landapplied based on agronomic rates; and
  - providing for a Director to be able to add new high-risk areas and/or to require nutrient management plans in individual cases
- The phosphorus-based requirements are being phased in 2024 to:
  - o allow time for farmers to adapt their management practices;
  - o facilitate industry investment in infrastructure needed to deal with excess nutrients, phosphorus recovery technologies and meet CleanBC goals; and
  - ensure government develops appropriate nutrient management planning tools and guidance.
- ENV and the Ministry of Agriculture will continue to promote education and awareness with agricultural producers in Shuswap Lake Basin and other areas of the Province concerning nutrient (e.g., phosphorus) management.

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EN	ENV Approvals												
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A/DM	JS	Mar 21/19											
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Dir./Mgr.	CJ	Mar 19/19											
Author	MS	Mar 18/19											

February 27, 2019 File: 280-20 CLIFF/eApprovals #: 337379/13613

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy (ENV)

**SUBJECT:** Minister meeting with BC Trucking Association to discuss reductions in greenhouse gas (GHG) emissions within the heavy-duty commercial road transportation sector.

#### **BULLET RESPONSE:**

- The BC Trucking Association (BCTA) is a member-based, province-wide, non-partisan, non-profit motor carrier association formed to advance the interests of BC motor carriers.
- BCTA members operate more than 13,000 vehicles, employ 26,000 people, and generate approximately \$2 billion annually in revenues in BC.
- Meeting request came from BCTA's Director of Policy Cory Paterson, to have a
  meeting with Minister Heyman and Ministers of Transportation and Infrastructure
  (TRAN), Energy, Mines and Petroleum Resources (EMPR), and Finance (FIN).
- Heavy-duty vehicles are responsible for approximately 35 percent of GHG emissions from road transportation or about 14 percent of BCs total emissions.
- BCTA raised the following requests in their 2019/20 Budget submission:
  - Of Government to promote accelerated turnover of heavy duty commercial vehicles, by providing PST credits/exemptions, like those for production machinery and equipment. This exemption is proposed since 2017 and newer commercial vehicles, will increase fuel efficiency by 8 percent on average, and therefore will decrease GHG emissions by a similar amount.
  - Of note is that a survey done by BCTA in 2018 found that vehicles older than 2017 have seen their fuel efficiency reduced due to the requirement by the federal government to install emission control systems.
  - Government to invest in infrastructure improvements that reduce traffic congestion and stop-and-go traffic movements and encourage the most direct routing possible.
- BCTA has met with Ministers and key ministry officials of TRAN and FIN already. They are currently working with TRAN on fuel efficiency measures including the use of wide-base single tires and smart lifetable axles on trailers.
- ENV has overall CleanBC and climate action responsibility, however the specific items that BCTA would like to discuss reside with the other Ministries.
- CleanBC's modelling projects that heavy duty on-road vehicles (trucking)
  emissions will drop to 3.51 Mt in 2030 (from 6.55 Mt in 2015). The strengthened
  Low Carbon Fuel Standard is responsible for most of this projected reduction.
  The reduction occurs even as trucking activity increases by approximately 80
  percent.

- BC Budget 2019/20 includes \$3M for a new heavy-duty vehicle efficiency program to support fuel efficiency improvements and education on best driving practices.
- BC Budget also includes \$10M to expand incentives for clean buses, and medium and heavy-duty vehicles.

Contact:Alternate Contact:Prepared by:Jeremy Hewitt, ADMBen Finkelstein, ManagerAlvaro Diaz, Policy AnalystClimate Action SecretariatCommunities & Built Env.Communities & Built Env.778-698-4833778 698-4001778 698-7141

ENV	Approvals	
Reviewed by	Initials	Date
DM	MZ	3/06/2019
DMO	KK	3/05/2019
ADM	JH	2/28/2019
ED	CG	2/28/2019
Dir./Mgr.	BF	2/28/2019
Author	AD	2/27/2019

## MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY INFORMATION NOTE

February 12, 2019 File: ARCS-00280-20/197119F CLIFF/tracking #: 338265/13072

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**ISSUE:** 2017 Industrial Greenhouse Gas Emissions Report Publication

## **BACKGROUND:**

The *Greenhouse Gas Industrial Reporting and Control Act* (GGIRCA) stipulates emission reporting requirements for industrial facilities. The 2017 reporting year is the second emission reporting year under the Greenhouse Gas Emission Reporting Regulation. Previously, emissions were reported under the Greenhouse Gas Reduction (Cap and Trade) Act which was repealed with the implementation of GGIRCA.

Industrial operations emitting 10,000 or more tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) per year are required to annually report their greenhouse gas (GHG) emissions to the provincial government. Operations emitting 25,000 or more tCO<sub>2</sub>e must also have their reports verified by an accredited third party.

Emissions reports are submitted annually through Environment and Climate Change Canada's Single Window Reporting System by May 31 the following calendar year. Emission report summaries, including detailed information on each reporting operation, types and qunatities of greenhouse gas emissions, and report verification details, are published annually on the BC Ministry of Environment and Climate Change Strategy's website. A new report summary format has been used since the 2016 reporting-year to increase clarity and comparability with other jurisdictions. This format was applied retroactively to all reports dating back to 2010. The current publication includes the 2017 report summary and the updated summaries for the 2012-2016 reporting years.

### **DISCUSSION:**

Highlights from the 2017 industrial greenhouse gas emissions report summary include:

- BC's industrial reporting operations emitted 18.6 Mt CO<sub>2</sub>e neither including emissions from electricity imports nor including CO<sub>2</sub> from biomass.
- 666 facility emission reports were submitted from 126 reporting operations, including three electricity import operations;
- Total industrial GHG emissions from reporting operations, excluding electricity import operations and CO<sub>2</sub> from biomass in Schedule C, were 18.6 million tonnes of CO<sub>2</sub>e (Mt CO<sub>2</sub>e) in 2017, 1.1% higher than the 18.4 MT CO<sub>2</sub>e reported in 2016.
- 67.4% of the total emissions (i.e. 12.5 MT CO<sub>2</sub>e) were covered by the provincial Carbon Tax Act, which includes combustion activities (general stationary, mobile, flaring and some methane venting), but not the combustion of biomass in Schedule C.

- Oil and Gas Extraction; Mining and Smelting; and Forest Products were the highest GHG emitting sectors.
  - Top industrial emitters of attributable emissions (not including CO<sub>2</sub> emission from biomass) during 2017 were Spectra Energy
    Transmission, Teck Coal, Canadian Natural Resources Limited
    (CNRL), EnCana, Progress Energy, Lehigh, Rio Tinto Alcan, and Lafarge.

#### **NEXT STEPS:**

The Ministry proposes to post the 2017 industrial greenhouse gas emission report, and the updated reports for the 2012 through 2016 reporting years on the Ministry's website in late March.

#### **Attachments:**

- Attachment 1: 2017 BC Facilities GHG Report Summary
- Attachment 2: 2017 Industrial Emission Report Publication Q&As to be posted on the Ministry's website

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DM	MZ	2019/03/06							
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ADM	JH	2019/03/01							
ED	ND	2019/02/22							
Director	AF	2019/02/14							
Unit Head	HP	2019/02/12							
Author	AvR	2019/01/10							

#### 2017 The Province of British Columbia's Industrial GHG Reporting

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	Emissions Details by Source Categories, CO2e														Summary, t CO2e										
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LFO	5,962,123	-	212,824		55,241	498,539	1	67,147	886	1,051,036	-	1,824,443	16	-	232	19,309	7,511,696	1	2,104,415	56,143	-	232	19,309	9,691,797	
EIO																								1,260,837	
Summation	11,231,299	6,437,413	263,714		213,367	748,539	53,126	69,801	1,381	3,104,946	9,067,869	2,807,696	57,542	164	63,648	19,537	15,094,867	15,558,409	3,141,212	272,290	164	63,648	19,537	35,410,963	

- Note:

  1. Electricity import associated emissions is not currently included in the provincial inventory.

  2. Shanghal Energy Corporation did not submit their LFO report, and thus the LFO totals shown here doesn't include the data from Shanghal Energy Corporation.

  3. Adversely, Altken Creek Gas Storage U.C, likkuma Resources Corp. did not submit their individual reports, and thus their emissions are not reflected in the sheet "Individual".

#### 2017 BC Industrial Facilities GHG Report Update

#### **Reading Guide**

- 1 The data are current as of Nov 19, 2018, reported in through Single Window Reporting System managed by Environment and Climate Change Canada.
- 2 Reported data is subject to change due to updates to the reports are filed.
- 3 The results of third party verifications are included in the Linear Facilities Operations (LFO), Single Facility Operations (SFO), and Electricity Import Operations (EIO) tabs.
- The Individual Facilities Tab (i.e. "Individual", including IF\_a and L\_bc) contains administrative data and reported emissions for: (1) each individual facility within a linear facilities operation with emissions greater than or equal to 10,000 tonnes CO2e; and, (2) the aggregate of all individual facilities with each individual's emissions less than 10,000 tonnes CO2e within linear facilities operations. These totals are reflected in the corresponding LFO report.
- 5 The Linear Facilities Operation (LFO) Tab contains administrative data and reported emissions for each linear facilities operation.
- 6 Global Warming Potentials (GWPs) are based on 4th Assessment Report of International Panel on Climate Change (IPCC)
- 7 The emission quantities shown her are in "tonnes of carbon dioxide equivalent", i.e. t CO2e.
- 8 "CO2 Biomass" means the carbon dioxide emission from biomass
- 9 "CO2 fossil" means the conventional carbon dioxide emission, including CO2 from fossil combustion.
- 10 The "Fugitive and Vented" emissions include those of conventional fugitive, venting and process emissions from production processes such as cement production, lime production, aluminium production, glass production, hydrogen production.
- 11 Due to rounding, the summation value may not match exactly the sum of each individual value in the table.
- 12 EIO refers to "Electricity Import Operation". Emission associated with EIO is not currently included in the provincial inventory.
- 13 IF a refers to facilities within LFO with emissions greater than or equal to 10,000 toones of CO2e.
- 14 L\_bc refers to a "virtual facility" that is aggregated from all facilities within the LFO with each individual's emissions less than 10,000 tonnes of CO2e.
- 15 LFO refers to "Linear Facilities Operation" which is an aggregated "virtual facility" with the aggregation of each individual facility within the linear facility operation.
- 16 SFO refers to "Single Facility Operation".
- 17 In column G "Regional District" is determined according to the latitude and longitude values provided by the reporter. Blank means that the latitude and longitude provided by a reporter are out of British Columbia.
- 18 Shanghai Energy Corporation did not submit their LFO report, and thus the LFO totals shown here doesn't include the data from Shanghai Energy Corporation.
- 19 Adversely, Aitken Creek Gas Storage ULC, Ikkuma Resources Corp. did not submit their individual reports, and thus their emissions are not reflected in the sheet "Individual".

#### 2017 The Province of British Columbia's Industrial GHG Reporting

		Administrative info	oratio-							Comban		Emissions	Details b	y Source Categor	ies, COse	Fugitive and	Gentled.			Summary, t COse Totals by Gas Type				Total Ma	Verification   Verification	rification
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British Calumbia Wythe and Fower Authority	Fort Melson-Seneration Station	221112 - Fossil-Fuel Sinch's Power Seneration	970	SEAR - COLID MORTHERN POORES MUNICIPALITY	Haren PeperT	NONEXP-2285 Name accelf #bchydro.com	26.60		571	201	$\overline{}$		-					264		173	294				HE & YOUNG LLP! Agree	Aller
British Calumbia Wyths and Fower Authority	Marcat Steel Senerating Station	221112 - Forsil Fael State's Power Seneration		54.8300 -133.134 MORTH CORST	Haren PaperT	NONEXE 2280 Name population of	39,403	5	21	835								18.6		22	824			29.292 6/5	0.0	10
Canadian Autoports Toyota Inc.	Canadian Autoparts Toxicta	33G365-Other Motor Which Parts Manufacturing	900	49.134 -123.023 METRO WANCOUNTR	Lynn Roles	MONRG 053 Ivns helpolitopeta.com			_	_	$\overline{}$	_	_	_	_			- 5		-		_		8.905 A/s	99	20
Consellian Farmet Products Util Confee Pula Util	Cito Sewmit	321113 - Spermits (except Shingle and Shake Mills) \$22113 - Albertranical Pula Mills		49.2667 -315.1 EAST 6007ENAM	Lindsoy Sahadak	DS0862-3586 Unders Sales Make Monitor com CR00380-5588 Decrea Sales Misselfor com	4.09		361	905	$\rightarrow$	-	_	_	_	-			994 44	06 36	- 596	_		50,347 (4)	0/8	30
Canfor Pulp Ltd.	Certin Toolor Pole Rothmond Pole Mill	SZITTZ-Chemical Pulp Mills	900	55.935 -122.694 PRACE FORE	James Karlek	12502962-3580 jason kotoleksiitsenherpuja cem	100.17	176806	1477	3321	1300	2046	- 1	- 7	3383514	1125 84	0	153.0		78 3109	11,770	_		\$1.067 Pri	construct Ages	lance.
Canfor Pulp Ltd.		SZILLZ-Chemical Pulp Mills	900	53.5036 -122.680 PBMSR.FORT GEORGE	James Spartice	\$200002.3767 james.spankielikumleguip.com	163.29		5.171	3,062	150	2,000			1364305			183			17,794	_		3.140.804 Po		Agus.
Canno Special Products	Clored Fart	321213 - Softwood Venoer and Physical Mills	970	50,7536 -118,218 DOLUMBIA 94,59MP	Marrely Anariyati	250835-1234 manacion/illoamedo.com	17.0%		30	135					4000			12.5		11	133			18,135 (6)	a pla	20
Capital Regional Clothirt	Harland Lendill	SEZZIE-Alleste Treatment and Disposal	570	46.3212 -129.275 CARTIN.	Chris Fabire	\$200000,3255 crabination be ex-	604	6338	1	63		3,635	4	6					54.4 15.	CM 5	53			16,063 (6)		nia.
Caribon Pulp and Report Company	Caribeo Palp and Paper Company	321112 - Chemical Pulp Mills	970	52.956 -122.483 CANSOD	Tim Richards	\$2500950,0056 tim.richanbililworthyser.com	167,603			A380					829,111	654 5.1		187.7						1,256,573 Pro	constrained Agree	April .
Catalog Paper Corporation	Crofton Shibles	322112 - Chemical Pulp Milh		45.879 -121.651 00WHDHRS VALUEY	Stian Houle	\$250\$345-6256. brian heule@cutulodosper.com	124.052			5,551	36,474	582	-6	_	1,096,455	888 63	36	180.5			33.008			1.782,602 Pro	censione ( Ages	Jex
Catalant Paper Corporation	Fort Alberti Encision	322122-Howspirit Milb	970	49.345 -124.81 M.SERN-CLR/00040T	LetyCross	\$250\$736-7585 larry.coordinatelystowner.com	30,580				$\rightarrow$	_	_	_	_	-			558 170			_		ABBLESS Pro		Aprix
Catalant Paper Corporation	Fored Sine Straton	333113 - Mechanical Pula Mills	970	49.8738 -124.552 sethet	Phillips	809465-202 seah bekanalidi selalahanga cam	58,600		5,295			_	_	_	_	-			004 658	53 5,295	8,687	_			constitute & Agree	Jess
CertainTeed Gypsem Canada Inc	Vencome: Wallboard Plant			40 DES - 122 998 METRO WASCOLARS	Acqueinchia.	800852-1402 Jacqueline.nail/suint.aphain.com	24.88		12	115	212	-		-4-	_	-		25.0		- 12	152	-	_	25,166	Missing Vent	loitien Stroment
Dramtnade Decitoshem Inc.	Chemicale Decreachers, North Yanzman Oller alkali Facility CRA Lamber Co. Ltd.	325181 - Alkal and District Membershing 321212 - Softwood Venez and Psycood Mills		45.775 -122.994 METRO WASCOUNTS	Tors Galanberg Tors (h)	HORBIA-1633 Torsupatenberpilituriesus ca	30.99		- 3	30	$\rightarrow$	-	_	-	_	-		16.5		-	- 59	-		31,058 A5 30,324 Pri	construent Agree	200
DPALumber Co. Unit. Dry of Nancouver	Venouser Lendill	SELECTION - Mission Treatment and Disposal		40.000 -123.004 METRO WASOLATE	Jacoban Coware	900835-3250 Tom/dilicipalamber zam 900806-3726 Jordan.com/calibratica.com	3.22	110	1 3	778		29.662	-	11	_			1 2		WT 36	135	_		37,100 her	ternet France Se Agree	Jen .
confiant Wood Industries Ltd.	Castland Wood Industries Ltd., Americ Stobies	321212 - Softwood Veneer and Psycood Mills	970	49.361 -122.994 METRO WINCOLNTR	Opeid Preson	808515-005 domestalinesellendesed.com	21.99		- 11	312		10002	-					23.5		11	122			23,068 (6)	nia nia	20
Configuration	Carolles Inc. 1970)	321113 - Septrally Joseph Shingle and Shake Mills	570	54,4657 -124186 BULKET-ATD4660	Sandra Kalk	250895-562 senda velalisantes com	30.585	5	34	221								26.5		14	223			26,613 (4)		nia .
Conflex Inc.	Machinelle She 2 & Power Plant	SZ1111 - Severally Joseph Shingle and Shake Mills	570	SS 3300 -123 L7S PRASE FORT GEORGE	Navin Mikintyns	2502927-8084 Japan meintyrellingsfes carry	5,40		1,885									3/		WS 1,888				265,550		yet though being abligated
Commis Coal Faceurous Ltd.	Cillian L'Brule Irline	233114-6ituminous Coal Mining	970	55.3658 -123.783 PEACE NATE	Michelle Marshall	2500342-3784 immershalldicommunicationm	49.752	2	62	2,799	843			15		133,713		56.5		133,773	3,217			186,586 (6)	n/a	10
Construe Coal Fiscasurous Ltd.	Willow Creek Mine	231114-6ituminous Goal Mining	970	55.4E13 -122.294 PEACE NATE	Andre Leftmost	250242-3784 alaforest@commercest.com	3.110	2	3.	95	28	_		-				2						2,157 (4)	role .	NO.
Commu Coal Faceurops Ltd.	Wolserine Mine	233134-Siturninous Coal Milning	970	55.0611 -121.253 PEACE NAME.	Michelle Marshall	\$250\$342.3794 romanhald/conumerosal.com	41.20	2	54	3,861	142	_		3		271,600		- 60		271,658	1,564			306,868 (4)	n/a	nia .
				49.278 -121.131 METRO WASCOUNTS	Hickory Descine	BIOMRSS-2118 Is desired to contract and a com-	50.62		45		$\rightarrow$	_	_	_	_		_	55.0		- 4		_		180,258 Pri		Jerr
Iomie in.	Namiores Mil 1970	321112-Chemical Pulp Mills		50.685 J.2E.484 THOMPSON RECOLA	Jean Claude Allaine	250404-876 Joan-Clarks allel call from Lans	134.95		A530		1365	$\rightarrow$	- 1	- 4	823,336	655 5	-	100		01 5.165		$\rightarrow$			cenate brand Ages	Agus.
Dunkley Lumber Ltd.	Darkley Lamber Ltd. Glovalus Mine SEDI	321111 - Seventh Jacoust Shinds and Shake Mills 211218 - Carpert Sec Ore Miletry		53.275 .121.47 CANSOO	Disug Perdus Fisherd Trembles	D10095-4355 oberdeellichelischenber.com D10090-1886 internitieslighrebarmins.com	27.000 87.000		20	200	$\rightarrow$	-	-	-	_			27.5			265	-		51.00% AA	n/a	All I
Eitealter Mines Ltd. Enseter Nanzauwer Sowerage and Ensinage District	Americal Information Treatment Plant	221326 - Groupe Treatment Facilities	500	52-331 -123-386 CAR-900 45-365 -123-989 METRO-WANCOUNTR		1738452-3538 antida knoppio stevannio dimetrovamo user arg		34.096	- 100	3,912	$\overline{}$	2417			_			87.0	100		1.952	_			1004	
Coaster Hans mover Sewerings and Engineer District	James School Management - Tourisment Plant	221326 - George Treatment Facilities	500	40.218 -129.292 METRO WASOLATE	Antico Microsco Stranscon	1738452-3538 antida knoosic stevannicilicatrosmouwer arg	1 3	9 9152		50	$\overline{}$	1,212	- 1		_				29 10	24 1	128	_		25,068 A5	1004	-0.
Create: Nanamous Sewarage and Engineer District	Meter Sarem ser Warte to Francis Facility	SELECTION - Minute Treatment and Disposal	970	40 1866 - 122 929 METRO WASCOLATE	Chris Aller	800612-688 Chra. Alandi metrouscouse any	113.48			5.295	-	2016						1334			1.245			287,478 Pri	rematerhouses Agree	Agus
10 Mining International Limited	Marry Size Project	231114-6ituminous Coal Mining	90	55-8622 -121-086 PEACE SIVER	Standon Lewis	250257-075 Investor, knowletching out com-		3	0	2									33	-	2					Agus
bunyaling Necrotics Uni.	Houseling Superio Ltd Deba			49,852 -121,006 METRO WASOUNTS	Chris Recekledu	BORNS-0594 chris.lendilesbyll/marxings.com	31.76		36	179								50.1	THE	16	179			\$2,542 MP		Acres
one Sound Pulp & Paper Corporation	House Sound Puls and Paper Mill	322112 Chemical Puls Mills		40 SZEZ - LZELABA SUMSKIME COACT	Georges Alexis	80488-188 georges electrifitype ra	61.683	7 983,588	3,955	5,380	53,622	558	40	1.65	954,241	752 54	tie.	51.7	880 0.315	85 1800	11.150			1,633,356 84	du Camina Freis Agros	Agree
Sally Dil Sperations Limited	Prince George Refiners	334116-Patroleum Fafineries	570	SS 5382 .122.699 PRASER FORT GEORGE	Mart Millard	\$250860-2585 matthox.millard@hoksenegs.com	53.251	3	43.	418	6.015		434	15 42,66	5	192	56	1435	960	3,215	456			141,675	Netice of De	level Verification
Interfer Corperation	Grant Forto Sevenil	321113 - Sewmits Jexcept Shingle and Shake Milliú	570	49 8369 JULIANT KOOTENAN SOUNDARY	Chris Stomert	\$250845-3488 chris.stowert@interfer.com	34.26	3	31	345								167		- 11	148			14.406 n/s	a gla	nia.
Frage: Products L.P.	Kinger Products L.P.	322121-Pager Jerosat Novasrind Mills		49 2014 . 122 996 METRO WACOUNTS	Cameton SPT	2604230-5252 cameran kiff@knaproreducts.ca	34.00	4 35.126	273	502		_	_	_	_			14.5	104 35	26 272	587			68,875 (A)	n/a	min.
Lafange Carolda Inc.	Kamlospa Plant	32TSUL-Cornent Manufacturing		SO MEZY - LZE ONE THOMPSON PRODUC	Stephanie Verpery	3604090-0056 strathanis sousevali Musacheloim com	150		0	- 5	_	_	_	_	_				158		5					Jers
Lefange Carcella Inc.	Fishmond Servent Plant	32TSSE-Conent Manufacturing		49 1911 -123 083 METRO WASCOUNTS	Allian Caoke	201241-4125 Ullan.cookedilahezehokim.com	235.56	4 75,802	200	531	$\rightarrow$		_	45225	-	345		580,		61.6	993	_			construent Ages	Aprix
Lastic Inc Vancouver Relinery	Lantic Inc Vancouver Refinery	331306-Super Mecufacturing	970	49.385 -121.082 METRO WINCOLNER	Gary Mustreett	806258-4589, amenhedrállantic ca	21.27	1	13.	362	$\rightarrow$	115	-		_			20.		36 13	140	$\rightarrow$	_	23,548 fm	vincomental See Agree	April.
Lehigh: Hanson Materials 156	Delta Rent	SZTSUL-Cerrent Menufacturing	90	49.1455 -123.023 METRO WASCOLATE	Clean Jung	806252-5611 sang@lehighsement.com	221,646	6 46576	561	1,525	$\rightarrow$	-	-	438.30		450		583		1060	1525	-				April
LHOIST MORTH AMERICA OF CAMIDA, INC. Markenie Dale Mill Conservation	Langku Plant Markensis Pulo MII	32110 - Unit Mendebuting 32113 - Chemical Pulis Mills	90	40.701 -122.601 METRO WASCOUNTS 55.2014 -123.158 STANC STICAT	John Halliday Viscon Show	2006881-4087 John helidestill heist zern C200297-3687 nobusellimerkendessin som	35.58 63.75		1,550	5400	34004	-	12	125 67		-		- SU		3043	5.585	_				Jens Jens
Molo-Cen Caruda	Milely Cost Canada	3315C3-Jose Faundries		SO RSTS - 128-096 THEMPSON-RECOLA	Fals MacRonald	2505T5-T780 rmacdenal/fillimolacea.ca	8.150		1	42		-			_			1		-	- 0			8,711 (6)		nin
Molo Cop Carvela	Mile Scott Canada Flant 2	3315/3-Jose Faundria		50.656 -126.087 THOMPSON-WCOLA	Fab MacRonald	250ETS-T780 / macdenal/fillmolacea.ca	11.95		- 6	67								12.0			107			13,005 (6)	nia	20
Mount Polks Mining Corposition	Mount Palicy Mine	211295 -All Other Metal One Mining	970	51.5906 -121.637 CANSOD	Luke Moger	3004488-3582 Imagen@imperialmetals.com	42.56	1	61	5.242								625	SAR	40	5.285			47,858 n/s	n/a	min.
Name into Spread Products Ltd.	Harmac Pacific Sparadiom	322112 - Chemical Pulp Mills	570	49 1361 -121.656 NWSABID	Oxid Stateley	\$50(112.321) disaminy@hamwapacific.com	86.79	285.646	2,332	A296	63,725	815	53	3 AX	867,305	703 5.4	95	136/	1254	30 3,068	9,586			1.581.568 Pro	rematerhouse   Agrox	Jens
New Gold	Sex-Rice.	211226 - Gold and Siver Ora Mining	970	50 MESS 128 SZE THOMPSON INCOLA	Scott Essisten	\$250E177.2785 scett Anidson@newgold.com	37,796		21	629								10.0	106	22	629			18,362 (4)	n ole	nik
Nepter Mare Felb	Riscoter Micro Palla Ltd	211251 - Cropper Zinc Gracklining		49.575 -125.580 STRATHCONA	Nicole Resoners	\$506387.5271 picole program@myrater.com	30.116		5	179	_	_	_	_	_			36.			179	_		30,300	Missing Verifi	
Parkland Sellining (S.C.) Ltd.	Barralis Refinery	SSALSE-Patroloum Faforeign		49 2944 - 122 989 METRO WASCOUNTS	All Connelly	BIOREST SCORE All Demonstraling Manuface	335.530	-	- 1	1,611	25.675	-	1997	T7 190,30	-	1442	8	532.5		5,356	1,627	-		538,779 9s	inter Considire Agree	Aprix
Peace River Coal Inc.	Trend Mine (970)	231114-6ituminous Coal Mining		54.544 .126.572 PEACE NATE	Michael Bettersen	80909 GNI mithel addessedlinglameton com	- 48	3	- 0	- 15	$\rightarrow$	$\rightarrow$	_						402		- 13	-		425 55	n/a	nia .
FerroryChern Canada (TD) Finnacia Removable Chergy - Leologian	Parcog Over Canada I.70 Promote Recomplete Energy - Lealington	325185 -M Other Book Inorganic Chemical Manufacturing 321995 -M other miscellaneous wood product room facturing	500	SS 5279 - 123 713 PRASER FORT GEORGE SO 2116 - 115 117 NORTH GROWADAN	Gleon Bourks First Loanks	(2500001-429) alem aparliculitare resolvem com (2180340-029) cross (per tealipirose lepellet com	36.29	-		301	$\rightarrow$	-	-	33.34	_	438	-	30.1		400	129	-		28,172	Libbalino Agree	Jess
Procede Removable Course Inc Burro Lake	Francis Secondos Tregs - Laringos Francis Secondos França Irc Farra Lake	321995All other micellaneous wood product restructuring	900	56.754 -125.451 #AMIT-910960	First Lorder	(735M3-CCS / rose (see kelligicose) spellet care	2000	81.992	851		100	-	- 4	60	_				200	611	1126	_		\$5,308 AV	- Inte	NACIONAL SOCIEDADES
Procede Remendable County Inc Mandowherk	Meadrafush	371995 All other miscellaneses wood project completization	970	53.3E15 -122.522 CAMBOO	Front Lorder	(718M) COS   rose (see log rose) species (see		54.142	613		588		1	16					140 SA		712			55,858 p.)	n/a	nia.
	William Lake	321998 -All other miscellanes a wood product runs facturing		51 1366 -123 127 CAMBOO	First Logika	(TISSMS-COS) case berkeliptowolepelet care	1.629	4	3.	30	400		1	21					112	1	53			6,175 (6)	nla nla	nia.
Posture Resources Inc.	Encejeck Geld Mine	211226 - Gold and Siver Ora Mining	570	SCHOOL THE REMAINSTRAF	Fabin McCall	\$10\$77.1927 rmcoel@knetion.com	36.58		30	590			1	A				164		25	585			17,457 (4)	n/a	nia.
No Tieta Alcan Inc	File Tinto Alcan Inc.	331303 - Primers Production of Alemina and Aluminum	970	54.0022 -128.005 RTMAT-STRONE	Garath Mandonen	\$250835-8508 gandh.mandersen@hiotints.com	65.121		44	525				129,76			164 53.4				525	364 63,056		882,352 Pro	construent Ages	April .
COGIL Inc.	FORLE - STAND FORKS			49 8253 LUB 629 KOOTENAN SOLADARY	Jim Gotation	\$250845-4486. Jim potahenilinosal.com	5.79		3	35	_	_	_	3.84							35	_		5,615 (6)		10
Asokamchack Pulp Inc.	Skoalumchuck Spansfor	322112 - Chemical Pulp Mills		49.519 -U.S.784 PAST 6007ESAN	Stands Codg	\$500412-4007 bondathidayla.com	21.68		2,153		25,904	435	- 53	A 1.90	645,756	523 44	0		H2 ETS	2,306		_		993,225		level Verification
pectra Energy Transmission	McMahon Copes Plant			56,1447 -126,688 PEACE NVB	Dean Freeman	MOSSIC 3562 dear from and an index com	684.00		BET	3,750	$\rightarrow$	$\rightarrow$	$\rightarrow$	-	-	_		484		882	3,750	$\rightarrow$			eter Constitut Ages	Jess.
emoon Energy Inc.	Sensot Products Sensinal Casel Mountain Operations	43315 Patraleum Product Wholeselin Entributors 233154 - Oliuminous Coal Milning	SEU	49.383 -121.85 METRO WACOUNTS	John Elliett Creix Sohna	HORBIS-3083 Amelie Editarian com	12.58	-	1 6	60	$\rightarrow$	-	-		_	58,450		100	303	58.523	100			12,458 mh	Inli	And the state of t
eds Coal Limited eds Coal Limited	Cital Mountain Operations Citation Operations	233134-8ituminos Cost Mining 233134-8ituminos Cost Mining	500	49.7984 - 114.652 EAST 6007/CNAF	Dan Sender	(2506425-750) craig bishopditunis.com (2506425-2505) don aarafer@book.com	291,351	1	301	5,331	$\rightarrow$	_	_	_	_	134,165		13 250	152	136456		_	13	494,952 Pro		level Verification
act Cast Limited	Fording River Operations	231134 - Othermican Coal Mining 233134 - Othermican Coal Mining	970	50 1899 - 114 879 1907 600 75 MM	Lan Anterson	12508435-1503 Joon santer strock sam 1250865-5136 Jun Amterson Bitteck com	322.68		773	19,715	$\rightarrow$	_	-			184,118		13 20		184450						Jess Jess
eck Coal Limited	Grantilli Gornifere	233114 - Dituminos Lost Mining 233114 - Dituminos Coal Mining		90.885 .114.871 FAST SOUTHAM	Cisins Ware	250865-318 Fains Warralited.com	321.00		214	2577	-	-	_			117,689		3210		117,952						Agus Agus
ech Cont Limited	Line Doek Operations			49.952 -114.756 E45T 6007E5AH	Ed Morash	250605-3117 Eddinsoldbackoom	132.130		136	3,726						83,177		188 112,		85,236				185,333 Pro		Agus
Teck Highland Valles Copper Fartneship	Tesk Highland Halloy Espec Partnership	211293 - Capper Zinc One Mining	500	50.4T34 -121.021 THOMPSON-RECOLA	Geoff Brick	\$250(\$35.528) geoff brick@heek.com	162,039		184	5,415								182,0	054	154	6,421			188,642 (4)	n/a	10
leck Metals Ltd. Trail Sperations	Teck Metals Ltd. Trail Operations	3311/CitHon-Terrasa Metal Jascept Aluminum) Smelting und Faffining	570	49 1619	Cheryl Esmah	\$250\$364-4258 Cheryl Dersehill teck.com	361,256	4 463	166	1,000				107,71		3,480		35 488.5	962	H1 3,000			35	402,062 Pri	constrbuse (Apre	Agrix
HOMPSON DIEDLINCTHLS COMPNEY INC.	Endalio Mine	211295 - All Other Metal One Mining	550	34.8864 -125.181 BUUGEF-REDWIND	Komstantines Salnis	\$250809.6211 lowinis@turk.com	_												154					154 (6)	n ole	100
ielko Indiatrias Ltd.	Ametrong Chibins	321212 - Softwood Veneer and Playwood Mills	570	50,3835 -119,224 MORTH OKANAGAN	Stephane Southerd	\$250\$505-7553 strathene.bouchend@telko.com	30.02		2,691	8,430		_							002 335	2,600	4,400			352,472 n/s		nia .
elko Indiatriro Ltd.	Hefficy Crosk Division	321212 - Softwood Veneet and Psywood Mills	970	SERIE - LZE 277 THOMPSON/RECOLA	(fol. Boan	250E18-4075 philibranditolis.com	27.68		17	202	$\rightarrow$	_	_	_	_		_	21,0		12	152	_		28,000 8-4	do Comos Frei Japos	Jens
elka Indiotries Ltd.	Lexington Rener Mill	321113 - Generally Joseph Shingle and Shake Millio		50 2317 .115 182 NORTH GIOMAGAN	Genton Sitter	250(260,1222 Genton StrienStrolle zern	35.62		13.	365	$\rightarrow$	$\rightarrow$	_	$\rightarrow$	_	-		184		- 13	100	$\rightarrow$		18,608 n/s	r/a	nia
elka industrias Ltd.	Soda Creek	321113 - Geornits Jescept Shingle and Shake Milliú	3F()	51.1961 -122.129 CAMBOO	Mile Destroys	(250(H6-360) Allia Sextraciátoka.com	30,80	-	1 2	115	$\rightarrow$	$\rightarrow$	$\rightarrow$	-	_	_		184	100		115	-		16.558 nh	n/a	All .
Trop bland Industries Ltd	Tree island Industries Ltd.	331222 - Good Wire Deswing	90	49.18TS -122.958 METRO-WANCOLNER	Alex Walker	HORSES-4572 availability ablanducers	15.15	2	1 7	- 5	$\rightarrow$	$\rightarrow$	$\rightarrow$	-	_	_		15.	120		- 50	_		15.258 A5	NAME OF TAXABLE PARTY.	No.
C. Fower IP F. Clean Energy, Inc.	VE Dean France, Inc.	221113-Food-Fad Electric Power Seneration 221115-Other Bertals Power Generation	WD.	90.800 .125.382 \$78ATHC05A 40.886 .122.995 MITROWACOUNTS	Grag Mancoleriko Michael Merkon	D10830-3006 GMmodenkediCepta/Power.com MCCRM-1191 methodosella/Japatama.com	611	34.007	1 2	45	$\rightarrow$	$\rightarrow$	$\rightarrow$	_	_					- 30	- 65			£302 68		Jess
Lage Form Canada L.P.	Village Farms - Sofie I	221118-00se bests rower conescen. 111808-00ser facilifers Green Under Cover		40-METS 122-993 METRO-WANCOLATE	Mitch Fartier	808940.602 inforting Byllagefarms com	36.7%	1 1004	1 2	305	$\rightarrow$	_	-					18.7	790 1		183			15.507 10		Agrix no
And Court Seduction Ltd.	Viest Coast Refueben Ltd.	311115 - Other Asimal Food Manufacturing		49.385 -123.97 METRO WASOLATE	Faul Faber	200215-5501 phiendiseri.com	23.48		- 27	321	_	_	_					214		-	177			23,615 A5	n n	20
Not Fuer Mils Ltd.		321113 - Sewmits Jessept Stringle and Shake Mills	970	55.7236 -123.557 PEAGE NATE	erin der	1250(288.4407 prin.day @washnase.com	200		225	1,829	-	_	_					10	009	325	1,829			13,063 N	n lois	min
riet Proper Mills Ltd.	Quested River Pulp	322113-Mechanical Dulp Mills	970	53.8967 -122.498 CAM-500	Marget Eugen	CPORPLE-4548 Instant pages@headfleast.com	63.112	2	21	716								50	112	10	356				resulerboune Ligger	Agree
Not Proper Mills Ltd.	WEST PROSE MILES - WILLIAMS LANT	321113 - Spermits Joseph Shingle and Shake Mills		52 1806 -122 185 CAMBOO	Sandor Bushi	250899-625 sender buchlikwerthsses.com	33.18		7	3117								13.		- 7	117			13,313 (6)		20
					Mitchellies	MOSBEG 6217 Instituted in all proper has not com-	21.525	2	75	380								21.5		15	1.09			23.750 (6)		arts.
	Vicychopper Princeton Spemil	321113 - Sevenills Jexcept Shingle and Shake Mills)		49.467 J.26.517 DMANGHS.SMILAMETH																						
Vision has seen Company Limited Visitant Forms (Conside) Inc.	Windows Princeton Seemil Windows Ferms (Canada) Inc Letter			40 BEST - 121 ON METRO WASCOLATE	Kert Fox	BOSENO, TORE Monditure but carry	21.50		13.	341								20	543	13	160				vincomental Set Agree	Agus

#### 2017 The Province of British Columbia's Industrial GHG Reporting

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Linear Facility Operation																															
													Er	missions Detail	is by Sour	ce Categorii	es, COze									ary, t COse				Verification	
		Administrative					Cor		-			Combus						Fugitive	e and Vented					Totals b	y Gas Type			Grand Total Emissions	Verification Body	Verification Result	Prepared in Accordance
				acility location					-	For Energy Pr			Notfi	or Energy Proc		_					_								10.110,001.000		with regulation
Company Name	Facility Name	Primary Activity NAICS Code & Description	Type Latits	ude Longitude	District	Name	Phone Numb	Email Address	CO <sub>2 feed</sub>	CO <sub>2 Momass</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2 four</sub> C	Ozmono CH <sub>4</sub>	N <sub>z</sub> O	COzfield	COzmon	CH.	N₂O HE	FCs PFCs	SF6	CO <sub>2 total</sub>	CO <sub>2 theresis</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs PFC	s SF <sub>6</sub>				
Aldren Creek Gas Storage U.C.	Althen Creek Gas Starage ULC	211110-Oil and gas extraction (except oil sands)	LEO		British Columbia	Lawrence Nidoh	(250)787-7680	Lawrence Nidol (Pfortistic.com	51,81		20	214	4,811		666	0	3	5,57	0			46,623		6,281	214				PricewaterhouseCoppers ILP	Acces	Atres
Alliance Pipeline Ltd.	AP BC Pipelino System (LFC)	496210-Pipeline Transportation of Natural Gas	LFO		British Columbia	Troy Meinke	(952)983-1089	Tray Meinke@alliancepipeline.com	18,64	66	34	142					1	3,29	0			18,667		3,325	342			22,133	1/3	nix	10
Affailas Uni.	ALA SCLEO	211110-Oil and gas extraction (except oil sands)	LFO		British Celumbia	Dave Zooldoeff		Cave Zaobkof lighal tages co	147,8		70	742	23,655		113	11	5	14,91		_	_	167,008		18,102		_	_	185,864		Agree with qualification	Agree
ARC Resources	ARC BC LFO	211113-Conventional Oil and Bas Extraction	LFO			Armin Jahangiri		sjahongin@varcreseurces.com	247,8		18,170				779	22	28	48,22		_		288,233		71,178					Stantes Consulting Util.	Agree	Agree
Stack Swan Enemy	Black Swan LFO	211110-Oil and gas extraction leasest oil sands	LFO	_	British Columbia			blanefiblackovaneneras zom	84.31		6.417		5.560		681	-	636	5.37		_	_	92.480		12.473		_	_		Raby Careon Engineering, Inc.	Agree	Acree
Stonavista Energy Corporation	Resource RC LFO	211113-Conventional Oil and Gas Extraction	1FO	_	British Columbia	Calin Hennel		calin.hennel@bosseistaenwgy.com	21,0	11	483	158	1,385	_	164	1	26	3,96	*	_	_	22,436	4	9,639	199	_	_		Stantes Consulting Ltd	Agree	Agree
Skitish Columbia Hydro and Power Authorit		221121-Electric Bulk Power Transmission and Control	LFO	_				kares pope#@tx/sydro.com	_	_	_	_	$\rightarrow$	_	_	_	_	_	_		19,31		$\rightarrow$		-	_	222 19.2		Erret & Young LLP	Agree with qualification	Agree
Canadian Natural Resources Limited	CNR BC LFO	211113-Convertional Oil and Sax Extraction	LFO	_	British Columbia	Bill Cappertan		bilidappertan@corl.com	576,6		276	3,493	68,238		306	36 1	342	540,05		_	_	646,185		548,616		_	_		GHD Limited	Agree	Agree
Canbrian Energy Inc.	Canbrian LFD	211110-Oil and gas extraction (except oil sands)	LFO	_		Barry Vanbeudaero		bunebeselaere@canbriam.com	117.6		8,197		4,628	_	535	14	26	16,79		_	_	122,526		25,525		_	_	149,765		Notice of Delayed Verification	
Castin Energy Corporation	Canlin Energy BC LFD	211113 - Conventional Oil and Sax Extraction	HO	$\rightarrow$	British Columbia	LIKK LOW	(413)351-9188	ack leedscarlinenergy.com	59,31		1,350	476	300	_	25		547	20,62		_	-	60,116		22,011		_	-		Stantes Consulting Ltd.	Agree	Agree
Genows Energy Inc.	Cenous Linear Facility	211110-Gil and gas extraction (except oil sands)	IIO .	$\rightarrow$	British Columbia			kendal Ldilling@senovus.com	68,7		5,628	634	1,500	_	239	-1	187	80,75		_	-	20,454		86,600		_	-		Stantes Consulting Ltd.	Agree	Agree
Cequence Energy Ltd.		211113-Conventional Oil and Gas Extraction	LFO .	_				minkung requesce-energy care	1.0		155	17	232	_	25		- 8	5,82		_	_	2,151		6,002		_	_	8,170		008	10
Chevron Canada Resources	Chevron Canada Resources Linear Facilities Operati		1FO	_	British Columbia		(823)234-5049	prisiska@shevron.com	8.51		426	167	2,014	_	246	1	11	1,31		_	_	23,604		2,119		_	_		EMDI MR Inc.	Agree	Agree
Chineak Energy (2010) Inc.	Chinack &C Operation (LFD)	211113-Conventional Oil and Gas Extraction	1FO	_		Dames Tomecek	(403)290-4965	damen@shineakenegpinc.com	31,6		2,341	361	1,563	_	162	1	254	16,12		_	_	33,924		18,610		_	_		Stantes Consulting Ltd.	Agree	Agree
ConacaPhillips Canada Resources Corp.	ConocoPhillips Conada Linear Facility	211110-Oil and gas extraction (except oil sands)	1FO	_	British Columbia	Troy Cumberland	(833)260-1967	tray i cumberland@conecaghillips.com	14,6		961	130	4,870	_	570	3 1	201	12,35		_	_	20,541		13,862		_	_		Stantes Consulting Ltd.	Agree	Agree
Core Energy Inc.	Crew RC LFO	211110-Oil and gas extraction (except oil sands)	1FO	_	British Columbia			carry.comeniuk@crowenegy.com	98.6		7,299		7,091	_	968	4	58	18,81		_	_	185,796		27,004		_	_	134,047		Notice of Delayed Verification	
Enbridge G and P Canada Limited Partnersh			IFO .	_	British Columbia	Dean Freedran		dean.freeman@enkridge.com	155,6		13,201	1,456	7,883		204		389	2,31		_	_	169,933		16,814		_	_		Stantes Consulting Ltd.	Agree	Agree
EnCana Corporation	Encara BC LFO	211113-Conventional Oil and Gas Extraction	IFO .	_	British Columbia			filix ander@vectora.com	416.0		27,720	6,171	17,359		330	20	299	367,34		_	_	455,090		340,365		_	_		Stantes Consulting Ltd.	Apre	Agree
Energius Corporation	Energlus LFO	211113-Conventional Oil and Gas Extraction	IFO .	_	British Columbia			finans@wneplus.com	28,0		2,214		483	_	62		12	3,37		_	_	23,496		5,658		_	_	35,446		Notice of Delayed Verification	_
EDG Canada Oli & Gas Inc.	EDG BC LEO	211110-03 and gas extraction (except oil sands)	IFO .	_			(903)262-9934	asse_raves@eagressucces.com	12.4		623	106	470	_	76		282	12,80		_		13,340		13,804		_	_		Stantes Consulting Ltd.	Agree	Agree
Fertisht Energy Inc.	Fartislic Foregy Inc.	221210-Natural Gas Distribution	LFO		British Columbia	Mai Chi Reas		valithi.kwan@fortistc.com	58,1		1,443	454	- 2	_			80	27,22		_	_	58,273		79,177	451	_	_		Pricewaterhouse Cooper LLP	Agree	Agree
HARVEST OPERATIONS CORP.	Harvest RC Linear Facility Operations	211112-Conventional Oil and Gas Extraction	1FO		British Columbia	Lin Caugrave	(402)387-1302	in caugeoie@hatvetenegs.ca	7,21		150	SA	9,197	_	633	4	381	11,85		_	_	16,861		15,642	62	_	_	12,565		2 Verification Statement, 200	
Hudg Oil Operations Limited	Husky Oil Operations BC Linear Facilities Operation		LFO		British Columbia	Chris Weekesser	(623)298-7133	Chris.R.Weckesser@huskyenergy.com	9,81		291	75	156	_	22		25	15,10		_	_	9,983		15,412	75	_	_	25,471		Agree	Agree
(Khuma Resaurces Carp.	Sierra Gas Plant	211112-Conventional Oil and Gas Extraction	LFO		British Columbia		(623)351-5419	WWalsh (hikkumanescarp.com	26,7		3,195		977		229	1	21	8,95		_	_	32,256		12,279		_			Ambers Corporation - Environm	Agree	Appe
Kelt Relacation	Kelt IIC Facilities	211113 - Conventional Cit and Gas Extraction	IFO .	_	British Columbia		(603)294-0154	ddurda@kwitesploration.com	50,4		1,533	241	5,527	_	278	4	66	27,10		-	_	56,021		28,972		_	_		Environmental Senices, Inc.	Agree	Appe
Murphy Oil Conguey Ltd	Marphy 9C LEO Facility	211113-Conventional Oil and Gas Extraction	LFO	_				chris_flannery@murphysikorp.com	22,6		348	504	- 54	_	•		2	4,07	6	_	_	22,663		4,434		_	_		GHD Limited	Agree with qualifications	Agree
Niesen Energy LLC	Nesee BC Operations (LFD)	211113-Conventional Oil and Gas Extraction	LFO	_	British Columbia			Oale Deshiel@nesenceaocitd.com	45,6		1,149	409	3,679	_	SR4	2	14	82	2	_	_	49,377		4,759		_	_	54,547		Notice of Delayed Verification	-
Pacific Northern Gas Ltd.	PMG [LFG]	221210-Natural Gas Distribution	LFO	_	British Columbia			cloumienthong.ca	6,91		123	54	1,703	_	119		- 6	25,01		_	_	8,606		25,340		_	_		Erret & Young LLP	Agree with qualification	Agree
Painted Facy Energy Ltd.	PFY Linear Facility Operation	211113-Conventional Oil and Gas Extraction	1FO	_			(623)475-0442	phil goldeney@paintedgony.ca	23,61		1,659	814	6,361	_	967	4	16	20,36		_	_	63,236		22,906		_	_		Stantes Consulting Ltd.	Agree	Agree
Pengrawth Energy Corporation		211113-Conventional Oil and Gas Extraction	LFO	_	British Columbia			Stake Reid@Pengrowth.com	15,0		1,177	148	1,230	_	158	1	17	6,13		_	_	16,343		7,467		_	_	23,959			
Polar Star Casselian Oil and Sas Inc.	Carroy LFO	211112-Conventional Oil and Sax Extraction	1FO	_	British Columbia	Dan Covanigh	(823)775-8061	dcsvanagh@polantar.cs	14,0		1,031	163	6,295	_	719	-	-7	20,09		_	_	20,311		11,850		_	_		Ambers Carocratics - Environs	Agree	Agree
Predator OH 9C Ltd.	Predator Dil LFD	211113-Conventional Oil and Gas Extraction	LFO	_	British Columbia		(587)398-6586	brian stockel/predatoroil zoen	86,1		7,288	805	565	_	62	0 24	253	51,77		_	_	111,446		59,156		_	_		ERM Certification and Verification	o Agree	Agree
Progress Energy Canada Ltd.	Pragress Linear Facilities Operation	211113-Conventional Oil and Gas Extraction	LFO	_	British Columbia	Lames Cummings	(423)539-8437	cummings@progressenergy.com	452,6		18,522				640	29	65	61,00		_	_	585,536		78,165		_	_		Stantes Consulting Ltd.	Agree	Agree
Bamshom Canada a division of Nakors Drilli		211110-Oil and gas extraction (except oil sands)	LFO	_	British Columbia			dave ketchurs@nabors.com	20,5		9	109	554	_	68		27	6,50		_	_	21,113		6,664		_	_	27,892		Notice of Delayed Verification	-
Saguaro Resources Ltd	Saguara BC Linear Facilities Operation (LFO)	211110-Oil and gas extraction (except oil sands)	LFO	_	British Columbia	Randal Johns		johns@saguatoreoustes.com	68,1		4,547		8,950	- 1	028	-	4	1,39		_	_	77,086		6,970		_	$\rightarrow$		Tetra Tech Of Inc.	Agree	Agree
Shell Canada Limited	Shell British Columbia LFD	211113-Conventional Oil and Gas Extraction	LFO .	_	British Columbia	Zhu Luo		Zhu Leaghthel Loors	194,6		15,762				676	3	190	40,48		_	_	286,749		57,923		_	_		GHD Limited	Agree	Agree
Spectra Energy Midstream Corporation	BC Middown (LFD)	211113-Conventional Oil and Gas Extraction	LFO .	_				dean.freeman@enkridge.com	160,1		17,744				590 1	139 3	680	9,02		_	_	189,615		30,354		_	_		Stantes Consulting Ltd.	Agree	Agree
Spectra Energy Transmission	SET PLPS (LPO)	211113 - Conventional Oil and Sax Extraction	HO.	$\rightarrow$	British Columbia	Dean Freeman		dean.freeman@enkridge.com	1,811,81		13,117	14,550	102,064		648 S	S15 974	475	169,19		$\rightarrow$	-	2,918,333		197,963		-	-		Stantes Consulting Ltd.	Agree	Agree
Suncar Storgy Inc.	Suncor RC Linear Facility Operation	211110-Gil and gas extraction (except oil sands)	HO.	$\rightarrow$		Rackne Patternan		partened from some com	15,6		281	130	1,123		176	-11	-1	2,51		$\rightarrow$	-	16,725		3,056		-	-	28,942		0/9	4/9
Taga North Itsl.	TAGA 9C LFO	211113 - Conventional Oil and Sax Extraction	HO.	_	British Columbia			Rod Miller@taga.ca	19,6		1,563	186	2,924	- 1	249		72	29,69		$\rightarrow$	-	22,683		31,504		-	-		GHD Limited	Agree	Agree
Teamsline Oil Corp	Taumaine LFO	211113-Conventional Oil and Gas Extraction	no.	_	British Columbia			Sana Toleki (Butantes com	289,3		23,640		43,801		365	25	2	85,07		_	_	333,090		115,107		_	_		Ruby Careon Engineering, Inc.	Agree	Agree
TransCanada Pipelines Ind.	TransCanada Kipeline, British Calumbia System	496210 - Pipeline Transportation of Natural Sas	DO.	_	British Columbia	Lawad Masud		invad_massi@transcareds.com	313,0		7,760	2,435		-			28	31,57	3	$\rightarrow$	-	113,065		20,331	2,435	-	-		Ernst & Young LLP	Agree	April
Versoes Midstream General Fartner Inc.	Veresen BC linear Facility (LFO)	211110-03 and gas extraction (except oil sands)	DO.	_	British Columbia			haniton@genbina.com	8,1		17	177	3,029	-	60.0	2 24	471	30	-	$\rightarrow$	-	22,251		769	179	-	-		Ernst & Young LLP	Agree	Agree
Whitecap Resources Inc.	WhiteCap Linear Facility Operation (LFO)	211110-03 and gas extraction (except oil sands)	no.	_	British Columbia	Make Northic	(82,08,05-984)4	Mike Nethal (Pricage Ca	11,6		256	116	1,630		167	1 1 051		50		_	10.14	13,305		1,012	117	-	222 193	10,434		0/3	4.9
Semestica									5.967.17				498,539		147 0			1,624,44				9 7,511,690			56,343						

vidual Facilities within A Linear Facilities										Emis	sions Details by Source	Categories, CO:e					rry, t COse	
Company None	Foreign Name	Administrative Inform	Facility Facility location	Resident District	Nissa	Contact	I & defenses		Combusergy Production	Not for E	Energy Production	en len	Fugitive and V			ls by Gas Type	ec. lacc. les	Grand To
Company Name  Ripoline Ltd.  Plosine Ltd.	Facility Name  8C Aggregated Facilities (Emissions < 10,000 t CO2e)  Teylor Compressor Station	Primary Activity NAICS Code & Description 486210-Pipeline Transportation of Natural Gas 488210-Pipeline Transportation of Natural Gas	L bc	British Columbia	Name Troy Meinke Troy Meinke		Holdress Heinkeiß a Bancepipeline.com Heinkeiß a Bancepipeline.com	278 278 28,428	0 1 33 340	CO <sub>2 feroll</sub> CO <sub>2</sub>	Riemen CH <sub>3</sub> N <sub>2</sub> O	CO <sub>2 total</sub> CO <sub>2 to</sub>	Emec CH <sub>8</sub> N <sub>2</sub> O 897 2,394	HFCs PFCs SF6	238 18,438 CO <sub>2 Element</sub> CH <sub>8</sub>	897 1 428 140	FCs PFCs SF <sub>A</sub>	_
isd. Isd. Isd.	BC Aggregated Facilities (Ernissians < 10,000 t CO2x) Blair Creek Comp Stn 6-050-F Treasured Comp Stn 6-050-F	211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands)	L bc (F_a 56.3236 -120.997	British Columbia 7 PEACE RIVER	Dave Zoobkoff Dave Zoobkoff Dave Zoobkoff	(403)691-7053 Dave 2	oobkoff@altagas.co oobkoff@altagas.co oobkoff#altagas.co	1,057 36,344	1 5 17 182	1,261	180 1	4	7,992 3,683		1,061 7,1 27,660 3,1	992 S 881 183		=
nd.	Townsend Comp Str C-041-F Townsend Gos Rant Vounger NGL Extraction Plant	211110-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction (except oil sands)	17 a 56.87252 -122.26 17 a 56.69375 -122.153 16_a 56.1467 -130.672	Z PEAGE RIVER	Dave Zooldsoff Dave Zooldsoff Dave Zooldsoff	(403)691-7053 Dave 2 (403)691-7053 Dave 3	nebkoff@altogas.co nebkoff@altogas.co	8,099 97,434 4,413	46 491 2 23	2,559 15,436	347 1 2,528 1		372 2,500		19,839 5,0	454 41 765 452 130 32		=
EFERE EFERE	ARCRES HZ INGA 14-24-06-22 BC Appropried Facilities (Creloides < 10,000 t COZe) BC Appropried Facilities (Ereloides < 10,000 t COZe)	211110-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction lensest oil sands) 211113-Conventional Oil and Gas Extraction	l. be	British Columbia British Columbia	Armin Johangiri	(403)776-5065 ajahan (403)776-5065 elehan (403)776-5065 ajahan	gn grandessurces.com gn grandessurces.com gn grandessurces.com	23 233 45,972	1,528 1,299	5,929 14,034	1,187 6 623 3 1,609 8	21	46,491		6,472	197 7 923 28 629 1,466		+
6755 6756 6755	Danson Camp Ste 95-34 Danson Sour Gas Plant 95-35 Danson Sour Gas Plant 13-07	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211110 - Oil and assessment on leastest oil a and il	IF a 55.885 -120.09	PEACE RIVER	Armin Jahangiri Armin Jahangiri	(423)776-5965 elehan (423)776-5965 ajahan	gri glarcresources.com gri glarcresources.com	25,854 9,760 46,752	1,643 181 812 90	262 2,838	35 423 :	- :	258 258		20,096 1, 12,598 1,	848 181 489 81		=
0470M 04700	Parkland Corep Stn 08-12 Parkland Gas Plant 03-09	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 56.02 -130.509 IF a 56.002 -120.444	9 PEACE RIVER 4 PEACE RIVER	Armin Johangiri Armin Johangiri	(403)776-5065 ajahan (403)776-5065 alahan	gir (Barcresources.com gir (Barcresources.com gir (Barcresources.com	12,993 67,617	3,705 408 1,064 116 5,535 609	1,686	230 200	4 2	622 532		14,572 1,1 69,143 6,1	997 117 968 630		_
zeros en Energi en Energi	Survise Gas Plant 13-36 After Creek Sear Gas Plant c-038-C BC Appropried Facilities (Enriccions < 10,000 t CODe)	211113-Conventional Oil and Gas Extraction 211110-Oil and gas extraction (except oil sands)	IF a 57,05125 -121,847	7 PEACE RIVER	Bryan Leng	(403)590-4403 blung#	giri@arcresources.com Phleckswammeray.com Phlackswamenergy.com	46,506 80,348	3,690 429 4,988 547 681 309	204 638 4,688	31 83 0	630	143 339 4,968		61.814 3.	965 428 388 547 220 311		=
an Energy an Energy Corporation	RC Aggregated Facilities (Grainings < 10,000 t CO2e)	211116-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction (except oil sands) 211113-Conventional Oil and Gas Extraction	IF a 57,08858 -122,084	4 PEACE RIVER	Bryan Lang Bryan Lang Colin Hennel	(403)593-4403 blores (403)514-7242 colin.h	Phlackswamenergy.com ennel@bonasistaenergy.com	9,737 12,619	681 309 765 80 292 96		27	3 36	7,138		2,264	220 211 900 88 543 95		$\pm$
a Energia Corporation olumbia Hydro and Power Authority olumbia Hydro and Power Authority	Nig Cross A-94-6/94-H-4 BC Aggregated Facilities (Enriccions < 10,000 t CO2e) BC Aggregated Facilities (Enriccions < 10,000 t CO2e)	211113 - Conventional Oil and Gas Extraction 221111 - Hydro-Electric Power Generation 221121 - Electric Bulk Power Transmission and Contro	IF a 57,07738 -123,696	British Columbia	Colin Hermel Karen Papati Keren Papati	(634)528-3280 karen.	ornel@bonesistacrergy.com papatl@bdydro.com papatl@bdydro.com	8,412	156 64	393	33 0	-	1850	2,3 252 17,0	69	977 64	2,30 232 17,90	
Natural Resources Limited Natural Resources Limited	BC Aggregated Facilities (Freissians < 10,000 t CO2e) BC Augregated Facilities (Preissians < 10,000 t CO2e)	211110-Oil and gas extraction (except oil sands) 211113-Conventional Oil and Gas Extraction	L be	British Columbia British Columbia	Bill Clapperton Bill Clapperton	(433)517-6784 bill.cla (433)517-6784 bill.cla	pperton@onf.com pperton@onf.com	367,070 80,237	130 1,514 29 820	19,738 8,567	2,669 30 1,140 4	745 479	34,694 487,828	1.0	287,554 37, 89,283 485.	683 1,533 907 843	100	-
n Natural Resources Limited In Natural Resources Limited In Natural Resources Limited	Birch Comp Sto C-018-1 Flat Rock Comp Sto 15-20 Kimea Comp Sto 0-021-0	211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands)	IF a 56,39005 -120,651		Bill Clapperton Bill Clapperton Bill Clapperton	(405)517-6784 bill.cla	pperton@corn.com corn.com pperton@corn.com	2,889 1,006 2,946	4 44 9 5		842 2 355 3	20	7,706 1,155		3,599 8.0	952 7 150 45		+
n Natural Resources Limited n Natural Resources Limited	Ledeforn Corng Stn 8-017-4 Midwinter Corng Stn 8-013-F	211110-Oil and gas entraction lensegt oil sands) 211112-Conventional Oil and Gas Extraction	IF a 57.1775 -120.085 IF a 59.506 -120.469	9 NORTHERN RODGES MUNICIPAL	Bill Clapperton	(433)517-8784 bill.cla (433)517-6784 bill.cla	pperton@ovi.com pperton@ovi.com	9,209	5 51 4 47			27 20	345 1,212		10,132 9,228 1,	350 51 217 47		=
Natural Resources Limited Natural Resources Limited Natural Resources Limited	Marray River Comp Stn C-033-1 Prespatou Comp Stn C-039-8 Ring Sorder Sweet Gan Flant	211110-Oil and gas extraction learner oil sands) 211110-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction learner oil sands)	IF s 54,545 -121,139 IF s 57,042 -121,234 IF s 57,739 -120,007		Bill Clapperton Bill Clapperton	(433/517-6784 bill.cla (433/517-6786 bill.cla (433/517-6784 bill.cla	pperton@ovrl.com pperton@ovrl.com	11,563 12,071 6,087	5 58 6 59 3 30	1,175	527	9 30	2,556 2,556		12,799 12,080 2,1	990 58 962 99 920 32		=
Natural Resources Limited Natural Resources Limited	South Hiding Creek Comp Station 8-083 A	211110-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction (except oil sands)	IF a 56.094 -130.875 IF a 54.794 -120.033	S PEACE RIVER S PEACE RIVER	Bill Clapperton Bill Clapperton	(403)517-6784 bill.cla (403)517-6784 bill.cla		9,100 13,802	4 41 6 66	3,157	411	- 6	290 830 136		11,263 1,3 13,862	254 43 262 66		=
Natural Resources Limited Natural Resources Umited Natural Resources Limited	Stockdart D2-34 Sour Gas Plant Sukunku Comp Sin A-954-1 Sukunku Comp Sin B-065-9	211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands)	IF a 48.00358 -121.666 IF a 48.00308 -121.684	6 PEACE RIVER 4 PEACE RIVER	Bill Clapperton Bill Clapperton Bill Clapperton	(405)517-6784 bill.cla	pperton@conf.com pperton@conf.com pperton@conf.com	83,728 23,416 10,218	40 421 31 114 5 50	20,335 299 454	2,011 11 50 0 62 0	- 1	1,136 156 1		25,736 25,736 10,672	197 432 217 134 67 50		_
Natural Resources Limited Natural Resources Limited	Toppe Gap Flant B-053-1 West Eagle Comp Stn 02-01	211110-Oil and gas entraction lensegt oil sands) 211110-Oil and gas entraction (except oil sands)	IF a 59.1990 -120.511 IF a 56.31639 -120.854	L NORTHERN BOOKES MUNICIPAL 4 PEACE RIVER	Bill Clapperton Bill Clapperton	(433)517-8784 bill.cla (433)517-6784 bill.cla	sperton@ovl.com sperton@ovl.com	36,829 5,430	8 84 3 27	3,688	440 3	2	1,029 786		16,838 1/ 9,119 1/	229 28		=
Energy Inc. Energy Inc. Energy Inc.	Alteres Gas Plant 5-24-H Alteres Gas Plant 5-72-A BC Appropriet Pacifities (Crebolens < 10,000 ( COZe)	211110-Oil and gas entraction leavest oil sands) 211110-Oil and gas estraction (except oil sands) 211110-Oil and gas estraction leavest oil sands)	L be	8 PEACE RIVER British Columbia	Rarry Wantsoudsore	(435)738-8559 byunb	codocre@canbriam.com reelsere@canbriam.com codocre@canbriam.com	12,225 71,853 33,792	1,034 112 5,965 660 1,189 929	128 1,390 3,120	17 0 115 13 409 3	23	978 1,403 34,712		12,597 1: 73,233 2) 30,298 26.	708 112 513 672 904 931		
engi Carparasion engi Carparasion engi Carparasion	BC Aggregated Facilities (Emissions < 10,000 t CO2e) BC Aggregated Facilities (Emissions < 10,000 t CO2e) Clarke Lake Battery (0-83-1/86-1-10)	211110-Oil and gas extraction (except oil sands) 211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	L bc	British Columbia British Columbia	Jack Lee	(433)351-9388 jackles (433)351-9388 jackles	o@canlinenergy.com	1,363 40,385 7,906	31 11 992 337 177 56 222 70		25 0	493	228 32,546 3,506		1,362	259 11 299 337		
erge Corporation Energy Inc.	Laprise Mein Battery (A-040-E/094-H-05)  BC Aggregated Facilities (Enricolaus < 10,000 t-000e)	21113-Conventional Oil and Oas Extraction 211110-Oil and gas extraction (except oil rands)	L bc	British Columbia	Kendall Dilling	(423)351-9598 JackJe (423)766-5416 kendal	oBranthenings.com Lidling@creavus.com	9,951 25,752	2,061 246	3	0	34 179	5,148 79,268		25,994 83,	283 58 370 70 389 266		$\pm$
Energy Inc.	Brasser Comp Station D-013-P Nool Sweet Gas Plant BC Appropried Facilities (Creboloes < 10.000 ( CODe)	211110-Oil and gas extraction leasest oil sands) 211110-Oil and gas extraction (except oil sands) 211113-Conventional Oil and Gas Extraction	IF a 55.294 -120.484	4 PEACE RIVER	Kendall Dilling Kendall Dilling Michael Bakus	(423)766-5416 kendal	diling@centrus.com diling@centrus.com s@conserce-energy.com	2,436 23,584	772 85 2,755 303	1,320	208 1	2	472 1,016		34,694 3,	276 85 978 304		=
e Emergy Util. Canada Resources Canada Resources	BC Aggregated Facilities (Emissions < 10,000 t CODe) BC Appropried Facilities (Emissions × 10,000 t CODe)	211113-Conventional Oil and Gas Extraction 721310-Rooming and Boarding Houses	L be	British Columbia British Columbia	Paul Dzkaba	(423)234-5049 pdsiub (423)234-5049 pdsiub	a@chevron.com a@chevron.com	1,911 7,467 1,124	135 17 435 117 1 50	2,014	25 0 346 1	11	3,826 2,347		2.153 64 9,481 2,1 1.124	906 17 118 118 1 50		=
Energy (2010) Inc. Energy (2010) Inc. Energy (2010) Inc.	BC Aggregated Facilities (Envisorers < 10,000 t CODe)  RC Appropried Facilities (Envisorers < 10,000 t CODe)  Birley Limbach A 072-F/096-H-03	211116-Oil and gas estraction (except oil sands) 211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	l. be	British Columbia British Columbia 7 PEACS RIVER	Damen Torrecelk  Damen Torrecelk  Damen Torrecelk	(425)290-4901. darren	t@chinookenergyinc.com t@chinookenergyinc.com t@chinookenergyinc.com	1,361 12,904 9,511	2 60 934 345 776 86	441	43 0	12	5 33.514 564		1,361 13,427 38, 9,640	7 63 891 146 856 86		+
Crempy (2010) Inc. Hillips Casada Resources Corp.	Martin Creek Sour Ges Mont b-002-E/094-H-06 BC Aggregated Facilities (Greissians < 10,000 t CO2e)	211115 - Conventional Oil and Gas Extraction 211116 - Oil and gas extraction (except oil sands)	IF a 57.330 -121.399		Damen Tornecek Troy Cumberland	(423)290-4901 darren (423)260-2967 trop.j.o	t@chineekonergyinc.com umberland@conocaph@ps.ca	7,830 on 14,667	629 69 961 130	994 4,870	104 1 530 2	672 1,004	444 12,350		9,496 1,1 20,541 13,1	176 70 882 133		
rgyler. rgyler.	RC Appropried Facilities (Enricolons < 10,000 i CODe) Septimus Sweet Gas Plant 12-37 Wilder Sweet Gas Plant 33-14	211110-Of and go entraction length of sands) 211110-Of and gos extraction (except of sands) 211110-Of and gos extraction length of sands)	IF a 56,054 -120,74	4 PEACE RIVER	Corey Semeniuk	(403)513-1408 coney.r (403)513-1408 coney.r	contents is the content of the conte	25,776 25,776 35,586	1,341 582 2,944 324 5,013 332	1,243	443 153 265	- 39	38,300 301 381		27,019 3,	130 383 399 325 429 333		=
G and P Canada Limited Partnership G and P Canada Umited Partnership	Cabin Gas Plant Tagger Gas Plant A-21-6/295-P-09	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 55.5154 -120.15	S PEACE RIVER		(250)362-3662 dean f (250)282-3662 dean f	reeman Werleridge.com	45,075	3,011 332 936 98 3,794 418 9,530 939		428	1,917	281 796 607		10,395	670 98 990 422		=
G and P Canada Limited Partnership organism organism	Tupper West 5-1 Gas Plant  RC Appropried Pacifiles (Crebaters < 10,000 t CODe)  RC Appropried Facilities (Erelations < 10,000 t CODe)	211113 - Conventional Oil and Gas Extraction 211110 - Oil and gas extraction lensest oil sands) 211113 - Conventional Oil and Gas Extraction	l. be		Dean Freeman Filis Onder Filis Onder	(423)645-4629 ff8x.on	reeman ghentinidge.com den@encana.com den@encana.com	300,196 5,547 137,989	8,530 939 448 53 5,534 3,724	5,159 8,629 6,182	1,175 5 833	6,671 9 633	34,764 258,520		10,506 10, 14,186 18, 164,804 264,	254 942 388 37 876 3,728		+
Corporation Corporation	Cuthank Comp Stn A-038-I Cuthank Comp Stn B-100-B	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 55.19383 -120.09 IF a 55.32703 -120.349	PEACE RIVER	Filis Onder Filis Onder	(433)645-4629 fflix.on	der@encana.com der@encana.com	9,882	802 88 656 72	230 562	38 0 67 0	24 6	1,429		10.137 4.0 8,684 2,1	994 89 183 73		$\equiv$
Corporation Corporation Corporation	Danson Creek Comp Stn 08-15 Hom Riser Comp Stn 0-967-6 Hythe Comp Stn 4-905-0	21113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211115 - Conventional Oil and Gas Extraction	IF a 59.4729 -122.334 IF a 50.5854 -120.178	8 PEACE RIVER	Fils Onder Fils Onder Fils Onder	(423)645-4629 FBz.on (423)643-4629 FBz.on	der@vecara.com der@vecara.com der@vecara.com	90,008 55,234 51,042 15,040	2,435 208 6,128 456 4,188 401	5,459	1E2 843 244	7 25	3,901 510 2,659 4,006		60,700 5,	521 265 681 658 292 465 250 134		=
Corporation Corporation Corporation	Hythe Comp Stn a-029-H Hythe Comp Stn D-029-H Hythe Comp Stn D-023-H	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 55.597 -120.301	L PEACE RIVER	Filis Onder Filis Onder Filis Onder	(425)645-4529 ffks.on	den@encana.com den@encana.com den@encana.com	15,040 25,247 33,613	1,218 134 1,237 136 2,736 300	164 237 798	27 0 25 0 119 0	35 35	4,006 6,550 3,823		15,499 7.	250 134 821 136 968 366		$\pm$
Corporation Corporation	Refle Comp Str. p. 027-8 Elwigana Comp Str. p. 009-1.	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction	IF a 55.27917 -129.299 IF a 59.24792 -122.999	9 PEACE RIVER 9 MORTHERN ROCKES MUNICIPAL	Filiz Onder Filiz Onder	(425)645-4629 filt.on (425)645-4629 filt.on	der@encana.com der@encana.com	25,678 26,731	1,272 140 2,246 247	2,430	45 c	- 1	264 10		15,944 1.1 21,151 2,0	581 140 664 249		=
Corporation Corporation Corporation	Seturn Comp Stn 15-27 Tower Gas Plant 03-07-081-17W6 BC Appropried Facilities (Cressions = 10,000 s COZe)	231113 - Conventional Oil and Gas Extraction 231116 - Oil and gas extraction (except oil sands) 231110 - Oil and gas extraction (except oil sands)	IF a 56,00163 -120,651	L PEACE RIVER	Filis Onder Filis Onder Fern Mass	(403)645-4629 fflix.on	der@encana.com der@encana.com Peneralio.com	3,904 6,273 12,802	534 39 531 58 1294 213	3,563 4,549 136	598 3 39	1 1	4,807 1,950 482		10,922 3,0	905 41 170 61 903 213		=
Corporation Corporation	West Tommy Lakes Come Station 5 A-0254	211113-Conventional Oil and Gas Extraction 211116-Oil and gas extraction lescapt oil sands i	L bc	British Columbia 3 PEACE RIVER	Fern Mass	(423)298-8905 Francis (423)298-8905 Francis	Benerplus.com Penerplus.com	315 8,873 6,099	0 14 739 81 447 55	347 158	45 5	4	2,860 32 5,086		317 2,	860 14 787 82 557 55		=
ada O4 & Gas Inc. ada O4 & Gas Inc. Energy Inc.	BC Aggregated Facilities (Entitologist < 10,000 t CO2le) Maxhamish Como Sin d-096-1 BC Aggregated Facilities (Entitologist < 10,000 t CO2le)	211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands) 486216-Pipeline Transportation of Natural Gas	IF a 59.8326 -123.245	S MORTHERN ROCKES MUNICIPAL	Jacon Rasses Jacon Rasses Sain Tolga Olcay	(305)252-5914 Hoson	rases@eogresources.com rases#eogresources.com lcay@forsisbc.com	6,389 12,529	476 53 311 98	312 2	59 G	273 78	7,721 71,303		6,974 8.	248 53 614 98		=
Energy les. Energy les.	BC Autropated Facilities (Emboleto × 10,000 t CODe) Electroner Compressor Station	486210-Pipeline Transportation of Natural Gas 486210-Pipeline Transportation of Natural Gas	IF a 49.1625 -116.282	2 CENTRAL KOOTENAY	Wai Chi Kwan Wai Chi Kwan	(778)578-3859 walchi (778)578-3859 walchi	kwan@fortisbc.com kwan@fortisbc.com	8,477 9,406 27,189	239 66 233 73 674 212			- 1	1,758 1,011 3,761		8,478 1: 9,465 1; 27,199 4.	948 66 244 72 455 212		=
Energy Inc. OPERATIONS CORP. OPERATIONS CORP.	VI Compressor Station, Eagle Mountain, Cogalitien  8C Aggregated Facilities (Enrissions < 10,000 t CODe)  Hay Gos Flant	486210-Pipeline Transportation of Natural Gas 211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	L bc If a 38.64375 -120.072	British Columbia 2 MORTHERN ROCKES MUNICIPAL	Jira Causgrove Jira Causgrove	(603)387-1202 jim.cau (603)387-1202 jim.cau	lwan@fortobc.com suprove@farvestenergy.ca coprove@farvestenergy.ca	1,330 3,963	27 13 124 45	9,187	633 4	34 367	408 34.452		1,344 15,537 13,	634 13 208 50		_
Operations Limited region	BC Aggregated Facilities (Enrictions < 10,000 t CODe)  BC Aggregated Facilities (Enrictions < 10,000 t CODe)  BC Aggregated Facilities (Enrictions < 10,000 t CODe)	211113 - Conventional Oil and Gas Extraction 211110 - Oil and gas extraction lensest oil sandsi 211113 - Conventional Oil and Gas Extraction	L be	British Columbia British Columbia	Chris Weckesser David Gurda David Gurda	(400)294-0034 ddurds	t Wieckessen@huskyenergy.com s@keltesploration.com s@keltesploration.com	n 9,803 1,976 37,391	291 75 80 13 1,261 261	156 942 6,134	22 0 100 1 200 2	- 54	15,100 766 25,103		9,983 15,/	612 75 925 13 966 264		=
ration N Company Ltd	Reft Irea 25-05-088-23 WEM Tupper Field	211115-Conventional Oil and Gas Extraction 211116-Oil and gas extraction (except oil cands)	IF a 56.60882 -121.561 IF a 56.56782 -120.063	PEACE RIVER	David Durés Chris Flannery	(423)234-0034 ddurdi (423)234-8022 dtvis 1	a#keltenoleration.com lannery@murphysikorp.com	8,204	221 66 99 226	471	39 5	1 1	1,235 1,921		8,265 2,0	483 E7 120 226		=
N Company Utd egy ULC. ergy ULC.	Tapper West Field  BC Aggregated Facilities (Envisores < 10,000 t CCO2e)  They D-674 C/5	211110-Oil and ges extraction length oil sandsi 211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	L bc	British Columbia	Dale Dechief	(403)699-4966 Dale D	lanners@murphysikora.com echial@nesenchoocitd.com echial@nesenchoocitd.com	3,117 42,567	249 282 260 28 3,148 370	1,206	194 393	13	2,255 826 1		4,337 1,	41.6 282 218 39 342 371		=
orthorn Gas Ltd. Inny Ervergy Ltd.	BC Aggregated Facilities (Emissions < 10,000 t CODe) BC Aggregated Facilities (Emissions < 10,000 t CODe)	221218-Natural Gas Distribution 211118-Oil and gas extraction lescage oil sands)	L bc	British Columbia British Columbia	Chad Fournier Phil Goldsney	(250)639-6543 cloum (403)475-0440 philas	ier@prg.ca Vorce#oxintedpone.ce	3,334	172 S4 279 31	1,709 3,173	119 0 443 3	3	25,047 8,617		8,688 25, 5,392 3,	32 086 339 33		=
lasy Energy Ltd. lasy Energy Ltd. th Energy Corporation	RC Aggregated Facilities (Enrictions < 10,000 t CODe) PPY Darber 6-044-C/094-6-10 RC Aggregated Facilities (Enrictions < 10,000 t CODe)	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction	IF a 56.76958 -122.291 L bc	British Columbia		(403)475-0440 phil go (403)556-5254 Bloku R		18,137 12,570 5,989	1,038 114 409 63		374 2 79 0 145 1	- 4	11,699 46 2,096		12.821 1; 7,144 2,	415 671 152 114 650 64		=
h Energy Corporation Canadian Oil and Gas Inc. Canadian Oil and Gas Inc.	GROUNDBRICH GP 06-19-580-29W6  BC Aggregated Facilities (Enrissions < 10,000 t CODe)  Control D-48-C/94-H-32	211113 - Convertional Oil and Gas Extraction 211113 - Convertional Oil and Gas Extraction 211113 - Convertional Oil and Gas Extraction	t bc	British Columbia	Bloke Reid Dan Cavanagh James Holoboff	(403)775-8061 dcavar	teid@Pengrowth.com cogh@polanitar.ca #grocessecologs.com	9,107 1,126 12,123	768 85 1 43 969 112	5,764 435	34 0 658 3 47 0	3	4,634 4,496 4,635		9,200 4, 6,893 5,	816 85 155 47 851 113		+
Canadian Oil and Gas Inc. Dil BC Ltd.	Conroy D-80-F/94-H-12 BC Augropated Facilities (Shribolans < 18,890 t CO2e)	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 57,6479 -121,869 U.be	British Columbia	Dan Cavanagh Brion Stosiek	(403)775-8061 dcavar (387)393-6596 brian.s	ngh@polaritar.ca taslah@predatoroll.com	760 35,476	61 7 1,342 150	116	12 0 35	43	969 48,070		976 1,0 16,774 47,	943 7 447 150		=
Oli BC Ltd. Oli BC Ltd. Energy Canada Ltd.	Wildboy Compressor Station C-059-L Wildboy Star Go Mart D-075-A BC Aggregated Facilities (Emissions < 10,000 t CODe)	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211110 - Oil and gas extraction (except oil sands)	IF a 59.56458 -121.055	S NORTHERN ROOKES MUNICIPAL	Brian Stasiak	(387)393-6596 brian.s	tasia k@preda toroi Loam tasia k@preda toroi Loam ingu@progressonergy.com	7,723 61,932 23,756	5287 382 390 447	331 5,227	57 0 841 3	24,707	2,000 3,707 5,027		7,723 2,6 86,593 3,0 28,985 6,3	950 73 950 382 269 450		=
Frenzy Canado Ltd. Frenzy Canado Ltd.	BC Aggregated Facilities (Embolems = 10,000 t CO2e) BC Aggregated Facilities (Embolems = 10,000 t CO2e)	211113 - Corwentional Oil and Gas Extraction 211113 - Corwentional Oil and Gas Extraction	L bs	British Columbia British Columbia	James Cummings Julio Ostoby	(403)539-8437   Kurrer (403)539-4007   joxtub	на Язговчостита сот Фрговтичница сот	72,242 3,079	1,572 705 14 121		1,267	- 50	44,2% 108		81,097 47,0 3,078	134 709 118 121		
mengy Canado Ltd. Inergy Canado Ltd. Inergy Canado Ltd.	Formel Creek 8-85-1 Graham C-77-6 Uly Comp. Stn. A-46-0	231113 - Conventional Oil and Gas Extraction 231113 - Conventional Oil and Gas Extraction 231113 - Conventional Oil and Gas Extraction	IF a 56.30792 -122.334 IF a 57.11875 -122.691	7 PEACE RIVER 6 PEACE RIVER 1 PEACE RIVER	James Cummings James Cummings	(433)539-8437 jcumm (433)539-8437 jcumm	ings Paragressonergy com ings (I) progressonergy com ings Paragressonergy com	45,677 12,993 12,509	1,133 349 343 508 306 26	3,538 612 766	562 68 6		716 183 317		18,624	331 351 593 108 725 56		$\pm$
nergy Canada Ltd. nergy Canada Ltd. nergy Canada Ltd.	Progress Alteres D 067-G/094-6-08 PROCRESS BURRLES A 053-8/094-G-08 Progress Caribou C-016-F/094-G-07	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction	IF a 57,29975 -122,155	S PEACE RIVER	James Cummings James Cummings James Cummings	(403)539-8437   Icamin	ings@progressenergy.com ings@progressenergy.com ings@progressenergy.com	11,378 9,265 10,701	306 96 275 96 222 70 263 93	1,305 2,044 1,308	102 0 127 1 67 2		1,765 159 503		12,683 2, 11,309 2	177 87 448 71 983 84		=
nergy Canado Ltd. nergy Canado Ltd.	Progress Caribos D-032-C/094-G-07 Progress Green D-039-C/094-G-00	231113-Conventional Oil and Gas Extraction 231113-Conventional Oil and Gas Extraction	IF a 57.28383 -122.784 IF a 57.53396 -122.855	A PEACE RIVER	James Cummings	(403)539-8437   Kurrer (403)539-8437   Kurrer	ings#progressorergy.com ings@progressorergy.com	10,379	400 126 249 78	560 888	B2 0	- :	148 179		16,999	531 127 560 79		=
entry Canado Ltd. entry Canado Ltd. entry Canado Ltd.	progress leading #-065-V094-G-01 Progress leading #-065-V094-G-01 Progress Julianne #-005-V094-G-02	211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction	IF # 26,83933 -122,042 IF a 57,21855 -132,065 IF # 57,16839 -122,535	5 PEACE RIVER	James Cummings James Cummings James Cummings	(425/539-845T   Icames	ings@progressorergy.com ings@progressorergy.com ings@progressorergy.com	2,177 20,947 25,687	229 69 264 83 578 381	2,254 1,976 2,562	75 230 289		405 568 330		11,432 12,933 20,189	761 70 658 84 200 182		
nergy Canada Ltd. nergy Canada Ltd.	Progress Lify A-29-J Gas Plant Progress Lify 5-035-J/094-G-02	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 57.18502 -132.729 IF a 57.19381 -122.721	9 PEACE RIVER	James Cummings James Cummings	(403)539-8437 jcumm (403)539-8437 jcumm	ings@pragressenergy.com ings@pragressenergy.com	19,217	443 141 438 141	2,314 772	289 259 123 5	3	950 950 753		20,534 1,3	362 142 315 141 297 129		=
nergy Canada Ltd. nergy Canada Ltd. nergy Canada Ltd.	PROGRESS NG GUNDY A 058-W/084-0-36 Progress North Bug D-045-D/094-0-08 Progress Sasquatch 0-32-6	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction	IF a 57,28990 -122,429	A PEACE RIVER PEACE RIVER PEACE RIVER	James Cummings James Cummings James Cummings	(403)539-8437   journel (403)539-8437   journel (403)539-8437   journel	ings@progressenergy.com ings@progressenergy.com ings@progressenergy.com	17,004 15,497 14,251	406 127 372 117 342 107	2,419	225 6 469 2 245 222		488 318 120		17341	297 129 336 138 694 108		+
rvergy Canado Ltd. rvergy Canado Ltd.	Fragress Town North 5-070-C/094-G-01 Pragress Town South 0-059-1/094-9-16	231113-Conventional Oil and Gas Extraction 231113-Conventional Oil and Gas Extraction	IF a 57.052 -122.374 IF a 56.96584 -122.221	A PEACE RIVER	James Cummings	(403)539-8437   Kurrer (403)539-8437   Kurrer	ings@progressorergy.com ings@progressorergy.com	17,702 25,616	424 134 611 192	2,790 1,171	332 145	1	2,789 2,789		20,432 26,608 3,1	995 135 566 182		
rengy Canada Ltd. rengy Canada Ltd. rengy Canada Ltd.	Progress W Gundy 8-632-6/054-6-18 Town Comp Str. 8-9-1 West Gundy C-85-3/054-6-5	211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction	1F s 56,777 -122,149 1F s 56,91875 -122,087 1F s 56,74099 -122,759	S PEACE RIVER 7 PEACE RIVER 8 PEACE RIVER	James Cummings James Cummings James Cummings	(425/539-845T   Icames	ings@progressorergy.com ings@progressorergy.com ings@progressorergy.com	25,714 27,923 8,765	402 120 662 208 233 67	1,943 3,297 1,448	258 465 189		545 627 255		18,657 21,119 1, 10,213	905 127 996 209 535 67		
Canada a division of Nabors Drilling Canada Lin Canada a division of Nabors Drilling Canada Lin	nited BC Aggregated Facilities (Franciscons < 10,000 t CODe) nited Tattop Compressor Station	211116-Oil and gas extraction (except oil sands) 211116-Oil and gas extraction (except oil sands)	L bc If a 59.80472 -122.716	British Columbia 6 NORTHERN ROCKES MUNICIPAL	Dave Ketchum Dave Setchum	(780)567-5283 daso.k (780)567-5283 daso.k	etchum@nabors.com etchum@nabors.com	934	9 97	554	68 0	22 3	233 1,806 4,785		967 1,1 20,156 4,1	904 6 902 98		$\equiv$
sources Ltd sources Ltd nergy Corporation	BC Aggregated Facilities (Enriccions < 10,000 t CO2e) Legator Gas Plant BC Aggregated Facilities (Enriccions < 10,000 t CO2e)	211110-Oil and gas extraction (except oil sands) 211110-Oil and gas extraction (except oil sands) 211113-Conventional Oil and Gas Extraction	IF a 57.3535 -122.051	British Columbia 1. PEACE WIVER British Columbia	Randall Johns Randall Johns Owen Bailey	(433)584-3885 rjohns (433)584-2885 rjohns (587)328-6995 oballes	@saguaroresources.com #saguaroresources.com r@shasghaienesgycorporation	12,529 55,597 1.00 1,387	15 557 4,532 498 1 17	5,309 3,690	605 : 422 :	3 3	1,178 217 43,736		17,941 1, 29,248 3, 1,581 43,	299 559 171 500 237 17		+
ergy Corporation ergy Corporation	Eabin Corne Str. o-852-1 Elleh Sweet Gas Plant	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	IF a 59.21042 -121.641 IF a 58.984 -121.855	L MORTHERN ROCKES MUNICIPAL S NORTHERN ROCKES MUNICIPAL	Ower Balloy Ower Balloy	(587)228-5575 obules (587)228-6696 obules	#shanghuicnetpytterperation @thanghuicnetpytterperation	1.00 8,903 1.00 17,890	4 49 9 94	52	9 0	- 2	64		8,503 17,043	69 43 652 84		$\equiv$
ergy Corporation ergy Corporation ergy Corporation	Gunnel Como Sin b-625 F Midway Comp Sin b-665-9 Sieme Seur Gas Plant	211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction 211113-Convertional Oil and Gas Extraction	IF a 59.05208 -121.684	4 NORTHERN BOOKES MUNICIPAL	Owen Bailes Owen Bailes Owen Bailes	(\$87)328-9595 obsites	(#)hanghakmengyczeporation (#)thanghakenengyczeporation (#)hanghakenengyczeporation	00 10,047 00 8,859 00 41,365	3 53 4 46 30 320		20 0	22,545	80 40 2,919		8,859	90 33 45 46 919 339		
is Limited is Umited	BC Aggregated Facilities (Frainciens < 10,000 t CO2e) Brasses Sas Processing and Production IF-a	211113-Conventional Oil and Gas Extraction 211113-Conventional Oil and Gas Extraction	It be 55,715 -129,855	British Columbia 5 PEACE RIVER	Zhu Luo Zhu Luo	(250)794-2953 Zhu Lu (250)794-2953 Zhu Lu	o@stell.com o@stell.com	4,405 22,788	362 55 1,561 175	250 763	34 0 329 0	46	24,103 453		4,700 34, 25,599 2,	290 SS 240 178		$\equiv$
for Limited for Umited for Limited	Montroy Gas Processing and Production IF-a Saturn Gas Processing and Production IF-a Sunset Gas Processing and Production IF-a	211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction 211113 - Conventional Oil and Gas Extraction	IF a 55.962 -121.075	A PEACE RIVER 5 PEACE RIVER 8 PEACE RIVER	Zhu Luo Zhu Luo Zhu Luo	(250)794-3953 Zhu Lu (250)794-3933 Zhu Lu (250)794-3953 Zhu Lu	ogstellcon ogstellcon	138,810 15,173 12,803	11,548 1,271 1,257 138 1,135 125		800 3 378 3		13,850 957 1,403		17321 2.	208 1,274 903 140 874 136		+

Spectra Energy Transmission	Althor Creck Plant	211113-Conventional Oil and Gas Extraction	IF a	36,9548	-121.929 PEACE NIVER	Dean Freeman	(435/252-3552	dean freeman@enbridge.com	15,700	1,968 283 3,952	535 23	635	1.281	18,286	3,784 304	22,374
Spectra Energy Transmission	BC Aggregated Facilities (Grainsians < 10,000 t CODe)	211113-Conventional Oil and Gas Extraction	L bc		British Columbia	Dean Freeman	(433)362-3662	clean freeman@enbridge.com	5,193	383 111 3,392	543 39	36	4,136	8,511	5,059 130	11,311
Spectra Energy Transmission	BC Appropried Facilities (Erwissians < 10,000 t COZe)	485210-Pipeline Transportation of Natural Gas	l. be		British Columbia	Dean Freeman	(405)252-3652	dean freeman #enbridge.com	8,654	785 250 684	50 4	5	2.095	2,354	2.570 254	12,577
Spectra Energy Transmission	Rooster Station 19 - Cabin Lake	486210-Pipeline Transportation of Natural Gas	IF a	55.536	-119.541	Dean Freeman	(433)362-3662	deas freemas (Penbridge.com	17,216	27 121 8,430	1,799 44	33	1,347	25,687	2,772 165	38,635
Spectra Emergy Transmission	Seester Station 3 - Kobes Creek	485210-Pipeline Transportation of Natural Gas	15.0	26.381	-121.394 PEACE RIVER	Dean Freeman	(405)252-3652	dean freeman #enbridge.com	26,510	1.851 528 1,571	206 8	1	827	18.081	2.885 537	21,505
Spectra Energy Transmission	Rooster Station 6 - Bluehills	211113-Conventional Oil and Gas Extraction	IF_a	56.393	-121.121 PEACE RIVER	Dean Freeman	(403)362-3662	deas freemas (Penbridge.com	18,185	351 257 561	63 3	1	687	18,747	1,001 260	20,008
Spectra Emergy Transmission	Danson Flant	211113-Conventional Oil and Gas Extraction	17.4	55.78452	-120.538 PEACE RIVER	Dean Freeman	(403)252-3502	dean freeman #enbridge.com	87,185	132 610 5,574	727 30		52	92,759	911 640	94,310
Spectra Energy Transmission	Fort Nelson Gas Plant	211113-Conventional Oil and Gas Extraction	15_2	58.6539	-122.689 MORTHERN RODGES MUNICIPI	Dean Freeman	(403)362-3662	deas freemas (Ferbridge.com	274,799	140 1,543 19,000	3,443 106	425,147	1,356 15	718,946	4,940 1,664	725,550
Spectra Energy Transmission	Fort Nelson North Processing Facility	211113-Conventional Oil and Gas Extraction	17.4	59,20065	-121.554 NORTHERN ROCKES MUNICIPI	U Dean Freeman	(403)252-3552	dean freeman #enbridge.com	110,755	880 684 15,249	2,252 68	271,886	257	397,881	3,349 732	401,992
Spectra Energy Transmission	Ps. Nologo Gothering Ripeline	211113-Conventional Oil and Gas Extraction	IF a	58.4	-122.424 NORTHERN ROOKES MUNICIPI	Dean Freeman	(403)362-3662	deas freemas (Fenbridge.com	118	0 1 11,757	2,188 66	7	813	11,692	3,001 67	14,990
Spectra Energy Transmission	Pt. St. John Gathering Ripeline	211113-Conventional Oil and Gas Extraction	IF a	55.02	-129,414 PEACE RIVER	Dean Freeman	(435/252-3552	dean freeman@enbridge.com	306	0 3 8,086	912 37	12	2.024	8,464	2,536 41	11,441
Spectra Energy Transmission	McMahon Gas Plant	211113-Conventional Oil and Gas Extraction	IF a	56.1508	-130 668 PEACE RIVER	Dean Freeman	(403)362-3662	deas freemas (Fenbridge.com	48,517	23 259 21,269	2,863 114	67,584	3,095 1	127,330	5,982 334	143,725
Spectra Energy Transmission	Pine River Geo Plant	211115-Conventional Oil and Gas Extraction	IF a	55.5729	-121 S42 PEACE RIVER	Dean Freeman	(435)252-3552	dean freeman #enbridge.com	176,456	1.835 1.388 2,149	368 12	209,522	111	388,127	2.315 1.200	391,640
Spectra Energy Transmission	Station 1 - Taylor	211113-Conventional Oil and Gas Extraction	IF a	56.09	-130.414 PEACE RIVER	Dean Freeman	(433)362-3662	deas freemas (Penbridge.com	45,164	1,665 814 441	60 2	1	1,494	45,686	3,219 817	49,642
Spectra Emergy Transmission	Transmission Mainline	485210-Pipeline Transportation of Natural Gas	15.0	55.90229	-122.796 PRASER FORT GEORGE	Bryan Ysebaert	(435)699-1506	Bryan, Ysehaort@enbridge.com	1,008,578	3,197 7,897		22	145,641	1.018.617	152.839 T.887	1,179,353
Suncor Energy Inc.	BC Aggregated Facilities (Grainsians < 10,000 t CO2e)	211116-Oil and gas extraction (except oil cands)	L_bc		British Columbia	Rockine Patterson	(250)787-8238	rpatterson@suscer.com	7,816	191 60 97	15 0		760	7,913	966 60	8,939
Suncor Energy Inc.	Rabes Setters (5-24-A/54-6-5)	211110-Oil and gas extraction lexcept oil sands)	17. 4	36,512	-122.047 PEACE RIVER	Rockne Patterson	(250)787-8238	rpatterson@sancer.com	7,785	190 60 1,026	160 1	1	1.780	8,812	2.130 61	11,004
Taga North Ltd.	BC Aggregated Facilities (Grainsians < 10,000 t CODe)	211113-Conventional Oil and Gas Extraction	L_bc		British Columbia	Rod Miller	(403)724-5140	Rod Miller@taga.ca	1,147	71 20 2,062	138 1	50	23,376	3,258	23,582 21	26,862
Taga North Ltd.	TAGA CHINCHAGA C-32-H/94-H-8	211113-Conventional Oil and Gas Extraction	17.4	57,36361	-120.022 PEACE NIVER	Rod Miller	(405)724-5140	Flock Miller # targa, ca	10,555	887 25 538 1	75 0		3.236	11,100	1 4,179 55	15377
Taga North Ltd.	TAQA LAPRISE A-40-E/96-H-S	211113-Conventional Oil and Gas Extraction	IF a	57.361	-121.991 PEACE RIVER	Rod Miller	(403)724-5140	Rock Miller () taqa. ca	7,984	625 71 324 1	35 0	34	3,036	9,322	1 3,766 71	12,140
Tournaline Dil Corp	BC Appropried Facilities (Envisoiens < 10,000 t COZe)	211110-Oil and gas extraction lexcept oil sands)	L be		British Columbia	Sano Talobi	(804)233-3879	Sana, Talebillistantes, com	2.468	7 81 20,187	2,550 12	1	885	22,686	3.852 55	26.632
Tournsaline Dil Corp	BC Aggregated Facilities (Grainsians < 10,000 t CODe)	211113-Conventional Oil and Gas Extraction	L bc		British Columbia	Sarus Talebi	(634)235-1879	Sana Talebi@stantec.com	12,049	781 158 849	167 0	1	29,876	12,966	20,763 159	33,828
Tournaline Dil Coro	Danison 13-25-080-16-W6	211113-Conventional Oil and Gas Extraction	17.4	55,95347	-129.374 PEACE RIVER	Sano Telebi	(804)235-3879	Sana, Talebillistantes, com	45,506	5,429 596 2,869	576 1	33	12.198	68,383	17,993 598	88,976
Tournsaline Dil Corp	Dawson/Doe 1-32-80-15 WG	211113-Conventional Oil and Gas Extraction	IF a	55.97255	-130 299 PEACE RIVER	Sarus Talebi	(634)335-1879	Sana Talebi@stantec.com	32,977	2,728 300 243	35 0	15	14,795	33,235	17,558 366	\$1,094
Tournaline Dil Corp	Dog 02-11-080-39W6 0FF	211110-Oil and gas extraction (except oil sands)	17.4	55.91377	-129.582 PEACE RIVER	Sano Talobi	(804)235-3879	Sans, Tolobi@stantec.com	33,546	2,778 306 2,184	275 1		1.216	35,790	4.267 307	40,304
Tournsaline Oil Corp	Huran 15-34-079-17-WG	211113-Conventional Oil and Gas Extraction	IF_a	55,8854	-130.569 PEACE RIVER	Sana Talebi	(604)235-1879	Sana Talebi@etantec.com	22,435	1,942 203 349	45 0	2	4,816	22,797	6,703 209	29,692
Tournaline Dil Corp	Sundown 8-067-H/053-P-00	211113-Conventional Oil and Gas Extraction	17. 4	35,63536	-120,586 PEACE RIVER	Sano Talobi	(804)233-3879	Sans, Tolobi@stantec.com	27,484	2,548 259 1,009	183 1	21	34,609	28,568	27,041 259	45,507
Tournsaline Oil Corp	Sundown Sour b-067-H	211113-Conventional Oil and Gas Extraction	IF_a	55.635	-120 SB4 PEACE RIVER	Sana Talebi	(604)235-1879	Sana Talebi@stantec.com	45,364	3,797 417 3	0			45,366	3,788 417	49,571
Tourwaline Dif Corp	Survise 03-18-080-17-W6	211113-Conventional Oil and Gas Extraction	17.4	55,9285	-120.642 PEACE RIVER	Sano Talobi	(804)233-3879	Sana, Talebi@stantec.com	47,583	3,527 432 772	57 0	15	13.879	48,371	17,905 433	66,707
Tournsaline Dil Corp	Survive 09-10	211116-Oil and gas extraction (except oil cands)	IF_a	55.92098	-120.405 PEACE RIVER	Sarus Talebi	(634)235-1879	Sana Talebi@stantec.com	215	3 9 15,133	2,242 9		46	15,368	2,291 18	17,676
TransCanada Ripetines Ltd.	ANS Crowsnest	485210-Pipeline Transportation of Natural Gas	17.4	49,64782	-134,717 EAST KOOTENAY	Jawad Masud	(405)520-2670	towed mesud@transcenada.com	347.913	3,867 1,150		33	8.786	147,522	12,455 1,150	161,528
TransCanada Ripetines Ltd.	ANG SLKO	486210-Pipeline Transportation of Natural Gas	IF_a	49.29307	-115.173 EAST KOOTENAY	Jawad Massad	(433)920-3670	jawad_masud@transcanada.com	68,792	1,765 535		- 6	5,847	68,798	7,553 535	76,886
TransCanada RipeLines Ltd.	ANS MOTE	485210-Pipeline Transportation of Natural Gas	17.4	49,24606	-115 B47 EAST KOOTENAY	Jawad Masud	(405)520-2570	towed mesud@transcenada.com	95,150	2,384 748		5	4.694	26,136	7,078 748	103.561
TransCanada RipeLines Ltd.	BC Aggregated Facilities (Grainsians < 10,000 t CODe)	486210-Pipeline Transportation of Natural Gas	L_bc		British Columbia	Jawad Massad	(433)920-3670	jawad_masuci@transcanada.com	193	5 1		- 6	12,241	189	12,346 1	12,436
Veresen Midstream General Portner Inc.	Streprock Sour Gas Plant	211110-Oil and gas extraction (except oil sands)	17.4	55,3007	-120.028 PEACE RIVER	Jeff Hamilton	(425)691-7906	from Rondi pembino, com	35,250	17 177 3,029	450 2	34,471	902	72,751	769 179	73,655
Whitecap Resources Inc.	BC Aggregated Facilities (Grainsians < 10,000 t CO2e)	211116-Oil and gas extraction (except oil cands)	L_bc		British Columbia	Mike Norbas	(433)826-8404	Miles Norbass(Purcap. ca	11,665	256 216 1,639	167 1	1	590	13,305	1,012 117	14,434

#### 2017 BC Industrial Facilities GHG Report

#### **Eelectricity Import Operations**

	Administrative Information											Verification		
Company Name	Facility Name	Primary Activity NAICS Code & Description	Facility Type	Facility Location				Contact	t	Total Emissions, t COze	Verification Body	Materially correct,	Prepared in Accordance	
				Latitude	Longitude	Regional District	Name	Phone Number	Email Address	10010	Termouton body	Fair and accurate	with regulation	
FortisBC Inc.	Electric Contact Center	221121Electric Bulk Power Transmission and Control	EIO	49.28683	-117.62704	British Columbia	Jamie King	2503680649	Jamie.King@fortisbc.com	59,411	Mis	ssing Verification Statement		
Powerex Corp.	Powerex EIO	221111Hydro-Electric Power Generation	EIO	49.28497	-123.11911	British Columbia	Kim Craven	6048915081	kim.craven@powerex.com	1,201,426	Ruby Canyon Engineering, Inc.	Yes	Yes	
Teck Metals Ltd, Trail Operations	Trail Operations - EIO	331410Non-Ferrous Metal (except Aluminum) Smelting and Refining	EIO	49.10194	-117.71722	British Columbia	Thompson Hick	2503644515	Thompson.Hickey@teck.com	1,900	Mis	ssing Verification Statement		
Summation										1 260 837	Mis	sing Verification Statement		

## **GHG Facility Reports Questions and Answers**

## 2017 Highlights

# What are the total greenhouse gas emissions from British Columbia industry in 2017? How does this compare to 2016?

BC's total industrial emissions during 2017 were 18.6 Mt  $CO_2e$ , not including emissions from electricity imports nor  $CO_2$  from biomass in Schedule C of the Greenhouse Gas Emission Reporting Regulation (the Regulation), and were 1.1% higher than those during 2016.

#### How much CO<sub>2</sub> emission was released from biomass in Schedule C?

During 2017, 15.59 Mt CO<sub>2</sub> was released from combusting biomass in Schedule C, a 1.9% increase compared to 2016 emissions (i.e. 15.30 Mt CO<sub>2</sub>).

#### What is the breakdown of the 2017 total emissions?

As shown in the report summaries, the total emissions (not including emissions from biomass and imported electricity) were composed of the following categories: combustion 67.7%, fugitive & vented 32.3%.

#### What is the purpose of publishing facility greenhouse gas emission report summaries?

Publishing the emission report summaries is to: (1) inform the public about industrial GHG emissions in British Columbia (BC); (2) enable industry to take charge of their GHG emissions and identify opportunities for emissions reduction; and (3) provide timely, accurate, quantitative information to support policy development and program efforts to further reduce GHG emissions and to support other stakeholders.

# How many reporting operations and facilities reported to the Ministry of Environment and Climate Change Strategy in 2017?

There were 126 reporting operations and 666 associated facilities in BC that submitted emission reports to the BC Government for the 2017 calendar year, including three electricity import operations, which meet the requirements set in the Greenhouse Gas Emission Reporting Regulation under the authority of Greenhouse Gas Industrial Reporting and Control Act (GGIRCA). The number of reporting operations has remained stable in the past few years; the variance in the number of facilities can be attributed to the fluctuation of economic conditions that especially affected the oil and gas extraction and processing activities, as shown in Figure 1 below.

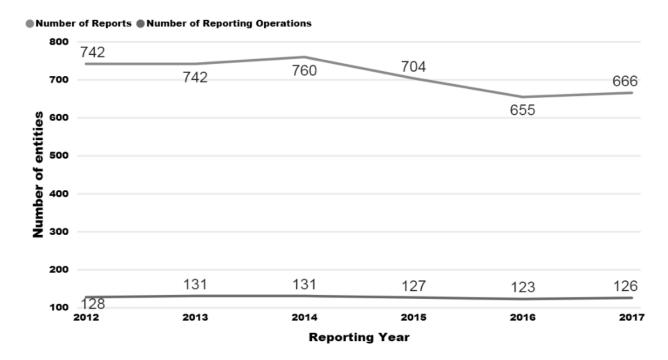


Fig. 1 Number of Reporting Operations and Facilities in BC

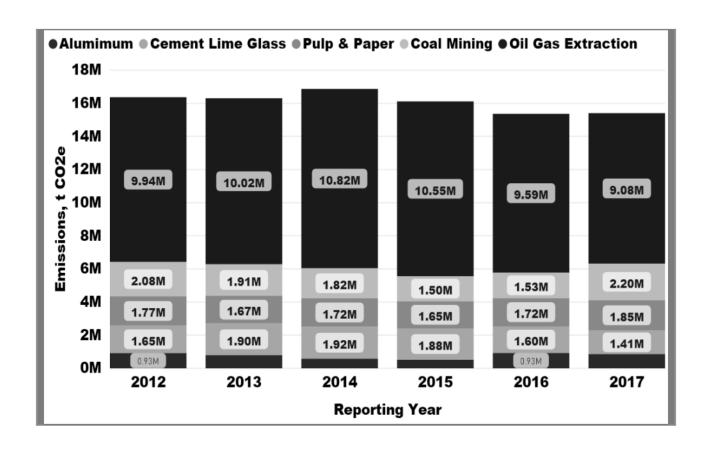
## What percentage of the total emissions were covered by the provincial Carbon Tax?

67% of the total emissions (i.e. 12.5 Mt  $CO_2e$ ) were covered by the provincial Carbon Tax Act, covering activities of general stationary combustion, mobile combustion, flaring and some methane venting, but not including the combustion of biomass in Schedule C.

#### What are the reported emissions for different industry sectors over time?

Reported emissions for different industry sectors are as follows:

Figure 2 Sectoral GHG Emissions Comparison between 2012 and 2017 (Mt CO₂e)



#### What were the top emitting sectors in BC in 2017?

In 2017 the top emitting sectors were oil and gas extraction, cement and lime manufacturing, coal mining, pulp and paper and aluminum production.

## Which companies have the largest emissions in 2017?

The top 5 emitters in BC during 2017 are shown in Table 1 below with their respective emissions (excluding emission from biomass specified in Schedule C of the Regulation). Their emissions in 2016 are also presented for comparison:

Table 1: Top industrial emitters' emissions in 2016 and 2017

Company Name	2017(tCO₂e)	2016 (tCO₂e)	% Change from 2016
Spectra Energy Transmission	3,131,400	3, 350,237	-6.5
Teck Coal Limited	1,691,938	1,528,480	10.7
Canadian Natural Resources Limited	1,198,350	1,124,925	6.5

Rio Tinto Alcan Inc.	862,357	932,883	-7.5
Lafarge Canada Inc.	683,906	802,817	-14.7

#### What industrial activities were carried out by reporting facilities in BC?

There are food industry, oil and gas (oil and gas extraction, processing and refinery, transportation and distribution), coal mining, metal mining, energy supply (i.e. electricity, steam and A/C), pulp and paper, inorganic chemical, non-metallic materials (cement and lime), metallic materials (aluminum, iron foundry, non-ferrous smelting) productions, waste and sewage treatment industries in BC. The entire industry covers 45 activities across many sectors according to the reported North American Industry Classification System (NAICS) codes such as oil and gas extraction, natural gas distribution, pipeline transportation of natural gas, bituminous coal mining, gold and silver ore mining, copper-zinc ore mining, hydro-electric power generation, chemical pulp mills, mechanical pulp mills, cement manufacturing, lime manufacturing, primary production of alumina and aluminum and waste treatment and disposal etc.

February 14, 2019 File: 280-20

CLIFF/eApprovals #: 340604/13510

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**SUBJECT:** Minister meeting with Ecojustice Group to discuss the Climate Accountability Framework for BC.

#### BULLET RESPONSE:

- The CleanBC Plan includes an accountability framework (page 53) that provides timely and transparent reporting on the funding, results, and emissions reductions of CleanBC actions.
- The accountability framework is grounded in the Budget document, in ministry service plans, an annual government report on funding, program results and emissions reductions tabled in the legislature, and an independent report from the Climate Solutions and Clean Growth Advisory Council on government progress and results.
- The Ministry of Environment and Climate Change Strategy (ENV) is currently
  working with the involved parties (i.e. Ministry of Finance, ministries with
  CleanBC policies and programs, and the Climate Solutions and Clean Growth
  Advisory Council) to flesh out and implement the various aspects of the
  accountability framework.
- The Minister of ENV is planning to table legislation in fall 2019 that provides direction and clarity on the accountability framework, including specific content to be included in the government's annual report.
- Government expects to table its first CleanBC annual report in fall 2019.

Contact:	Alternate Contact:	Prepared by:
Jeremy Hewitt, ADM	Tim Lesiuk	Elaine Cross
Climate Action Secretariat	Climate Action Secretariat	Climate Action Secretariat
<i>778-698-4833</i>	250-216-5893	250-893-0582

ENV Approvals									
Reviewed by	Initials	Date							
DM	MZ	Mar 13/19							
DMO	KK	Mar 11/19							
ADM	JH	Mar 8/19							
ED	TL	Mar 7/19							
Author	EC	Mar. 7/19							

March 5, 2019 File: 280-20

CLIFF/eApprovals #: 340934/13695

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**SUBJECT:** Minister meeting with Suncor to discuss electric vehicle (EV) fast charging stations also known as Level 3 charging stations.

#### **BULLET RESPONSE:**

- Suncor, through its Petro-Canada brand has announced that it will start building a
  network of more than 50 electric vehicle (EV) fast charging stations across the
  Trans-Canada highway.
- Suncor Energy Inc. is an integrated energy company. Its global operations include
  oil sands development and upgrading, conventional and offshore oil, gas
  production, and petroleum refining. Petro-Canada is the product marketing brand
  of Suncor.
- Meeting request came from Ginny Flood, Vice President, Government Relations, Suncor Energy Inc.
- The charging stations will be Level 3, which can provide up to 200 kilowatts per hour (kWh) charges (enough to provide an 80 percent charge to most EVs in less than 30 minutes).
- Construction is underway or beginning this spring with sites opening over the next year.
- Fast charging stations are also currently supported by Natural Resources Canada (NRCan) via their EV and Alternative Fuel Infrastructure Deployment Initiative Program.
- The BC government's Clean Energy Vehicle Public Fast Charging Program funds 25 percent of the total project costs up to a maximum of \$25,000 per EV fast chargers. Not-for-profit and for-profit organizations are eligible for this funding.
- BC Budget 2019/20 includes \$30M to expand the EV charging network with new home, work, and public fast-charging stations; and to also enable private investment in charging and hydrogen fuelling infrastructure to get more stations faster.
- The CleanBC Communities Fund (CCF) supports cost-sharing of infrastructure projects in communities across the province. Projects will include Level 2 charging infrastructure or hydrogen fuelling infrastructure that is owned by a public body and is for public use.
- The Renewable and Low Carbon Fuel Requirements Regulation (RLCFRR)
  establishes annual carbon intensity limits for the supply of transportation fuels in
  BC, and a market-based mechanism to promote fuel supplier compliance with
  these limits.
- Petroleum fuel suppliers have options for achieving compliance with the RLCFRR, such as increasing the supply of higher renewable content fuel blends at the pump or purchasing compliance credits from low carbon fuel suppliers.

- Part 3 Agreements under the RLCFRR provide fuel suppliers with compliance credits in exchange for implementing projects that will increase the supply of low carbon fuel, such as fast charging stations. Suncor is a recognized Part 3 Fuel Supplier under the RLCFRR.
- Suncor with co-ordinated support from NRCAN, BC's Clean Energy Vehicle Fast Charging Program, and Part 3 Agreements is investing in fast charging stations in 11 communities in BC - Kamloops, Hope, North Vancouver, Victoria, Nanaimo, Merritt, Salmon Arm, Abbotsford, Revelstoke, Golden and Cache Creek.

Contact: Jeremy Hewitt, ADM Climate Action Secretariat 778-698-4833 Alternate Contact: Ben Finkelstein, Manager Communities & Built Env. 778 698-4001 Prepared by: Alvaro Diaz, Policy Analyst Communities & Built Env. 778 698-7141

ENV Approvals								
Reviewed by	Initials	Date						
DM	MZ	3/11/2019						
DMO	KK	3/11/2019						
ADM	JH	3/6/2019						
ED	CG	3/6/2019						
Dir./Mgr.	BF	3/6/2019						
Author	AD	3/5/2019						

## MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY DECISION NOTE

March 7, 2019 File: ARCS-280-20 CLIFF: 342217/13671

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy.

**ISSUE:** United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties 25 (COP25).

#### BACKGROUND:

Each year, Parties to the UNFCCC Paris Agreement meet at an annual Conference of the Parties (COP). COP25 will be hosted by Chile from December 2-13, 2019, in Santiago. The B.C. legislature is not scheduled to be in session during this time.

#### DISCUSSION:

The main focus of COP 25 will be finalization of the 'Rulebook', which fleshes out and gives life to the 2015 Paris Agreement. Outstanding issues for the Rulebook include agreeing to the scope and processes for use in Article 6 of the Paris Agreement, the key article of interest to B.C., which allows parties to count emission reductions traded across international borders towards their own national emission reduction commitments, or 'Nationally Determined Contributions'.

Beyond finalizing the Rulebook, the focus of COP25 will be on increasing ambition, including through the consideration of new Nationally Determined Contributions, which parties are required to announce before 2020. Other key topics will include ocean health, the just transition for workers displaced by climate action, and the provision of 'loss and damage' payments to developing countries for the historical damage caused by developed country emissions.

COPs typically involve a high degree of cooperation between Canadian provinces/territories and the federal government. COP 25 will fall shortly after the 2019 federal election. Attendance at COP25 will present an opportunity for B.C. either to further develop the relationship with the current government on climate change, or to begin forging a relationship with a new government in a setting that supports reaching a united Canadian position on climate change.

COP25 will provide a high-profile forum to highlight CleanBC to climate policy leaders and other stakeholders from around the world.

#### **OPTIONS:**

Option 1: Plan for ministerial attendance at COP25

## **RECOMMENDATION:**

Option 1: Plan for ministerial attendance at COP25

\_Option 1\_/ March 25, 2019\_ **DATE SIGNED** 

**DECISION & SIGNATURE** 

Honourable George Heyman

Minister of Environment and Climate Change Strategy

**Contact: Alternative Contact:** Prepared by: Jeremy Hewitt David Coney Elliott Bourgeault Climate Action Secretariat Climate Action Secretariat Climate Action Secretariat 778 698-3991 778 698-4769 250 387-1134

Reviewed by	Initials	Date
DM	MZ	March 25, 2019
DMO	KK	March 22, 2019
ADM	JH	March 8, 2019
ED	CG	March 5, 2019
Dir./Mgr.	DC	March 4,2019
Author	EB	March 5,2019

March 11, 2019 File: 280-20 CLIFF/eApprovals #: 342743/13820

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy (ENV)

**SUBJECT:** Minister meeting with the David Suzuki Foundation to discuss the need to educate people to reduce their personal energy use.

#### **BULLET RESPONSE:**

- David Suzuki and Ian Bruce, Director of Science and Policy at the David Suzuki Foundation will attend the meeting.
- Regarding the McGuinty connection that David Suzuki mentions in his incoming email request to meet with Minister Heyman:
  - The Government of Ontario committed to energy labelling of homes within the Green Energy & Economy Act of 2009. Under this legislation, the resale of every home would require an audit to disclose energy consumption. The proposal was repealed last year.

s.12; s.13

- EfficiencyBC (launched in September 2018), is BC's online hub for homeowners and businesses to access information, incentives and support to reduce energy use and greenhouse gases in new and existing homes and buildings.
- EfficiencyBC contains incentive search tools for renovations, information and answers to FAQs on energy efficiency upgrades. It also contains free energy coaching services for homeowners and businesses undertaking renovations.
- The Province is launching a series of initiatives to implement and communicate the measures within the current phase of CleanBC, and to develop and engage the public for feedback on future actions:
  - EMPR and the Climate Action Secretariat (CAS) will engage in a joint engagement process to explore perspectives and opportunities on the energy related components of CleanBC, such as the home efficiency upgrades, and the electric vehicle initiatives to be launched throughout the Spring.
  - The Province is also engaging with First Nations and Indigenous Peoples, including on the Provincial Adaptation Strategy.
  - Other engagement processes that are currently in development are:
     Activate Transportation (currently open for public's feedback), CleanBC
     Labour Readiness Plan, and Building Code.
- Regarding other example efforts to support education on personal energy use:

- EmpowerMe is an energy conservation and behaviour change program
  designed for and delivered by members of diverse, multilingual
  communities. The program helps participants understand their energy bills
  and choices, save energy, save money and increase the comfort and safety
  of their homes.
- EmpowerMe met with Mark Zacharias, Deputy Minister, ENV in February 2019 to discuss the expansion of the program and potential sponsorship under CleanBC.
- A leading example from an international jurisdiction is the Sitra Fund's Lifestyle Test and 100SmartWays initiative in Finland. An interactive website offers 100 quantified options that people can choose to take. Filters by size of impacts and distinct categories are available (transport, food, services, living, etc.).

Contact:
Jeremy Hewitt, ADM
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778-698-4833

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Reviewed by	Initials	Date						
DM	N/A							
DMO	KK	3/15/2019						
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Dir./Mgr.	BF	3/13/2019						
Author	AD	3/12/2019						

## MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY INFORMATION NOTE

March 4, 2019 File: ARCS-00280-20/197119F CLIFF/eApprovals #: 342354/13700

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**ISSUE:** CleanBC Industry Fund Expression of Interest

#### **BACKGROUND:**

The CleanBC Industry Fund (Fund) invests a portion of the revenue from industrial carbon taxes into emission reduction projects, making industries cleaner and reducing future carbon costs

Starting in 2019/20, eligible B.C. facilities with a credible emissions reduction project will be able to apply for investment support. The Fund (Attachment 1) has drawn from lessons learned in other government programs, and will employ a two-step application process with:

- An Expression of Interest (EOI) phase where proposals will be screened against 'yes/no' eligibility criteria; and
- 2) A detailed Project Proposal phase where proposals will be assessed and ranked using evaluation criteria.

The EOI serves two purposes – it provides an early indication to respondents of project eligibility prior to developing a detailed project proposal and provides the Fund with information about the type of projects being proposed in order to inform program and process design.

Over the past year, staff have been engaged with industry stakeholders while designing the Fund. Industry has been supportive of the two-step process because it is administratively simple and provides clarity on eligibility of projects early in the process.

s.12; s.13

#### **DISCUSSION:**

The call for EOIs is expected to be issued in early March 2019. The EOI submission window will remain open for the period of one month, allowing the Fund to issue a Call for Project Proposals and make funding decisions by August. This timing is critical to align with industry's investment decision-making cycle.

EOI Submissions must be received within the one-month window to be considered for the 2019-2020 funding year. Submissions received after this window may be considered for the 2020-2021 funding year.

EOIs must meet specific respondent and project eligibility criteria:

- Respondents must:
  - Be an operator of a reporting operation under the *Greenhouse Gas and Industrial Reporting and Control Act* (over 10,000 tCO<sub>2</sub>e per year);
  - Have submitted an emissions report for 2017 (or intend to in 2018, if new operation); and
  - o Pay carbon tax for fuel at the reporting operation.
- Projects must:
  - Reduce attributable or associated emissions, according to emission quantification guidelines;
  - Exceed any provincial or federal legislative or regulatory requirements;
     and
  - o Use only technology/equipment that has been commercially demonstrated.

The EOI is designed to be simple for applicants to complete and provides flexibility for respondents to propose multiple project submissions, pooled applications, stacking with other funding sources, and multi-year projects.

#### PROPOSED NEXT STEPS:

Following the EOI, a call for detailed project proposals will be released later this spring and will define the evaluation criteria for assessing and ranking projects. Successful EOI respondents will be invited to submit a detailed project plan and business case with financial details. Key decisions regarding Fund governance and evaluation criteria are required in the coming weeks.

ENV will continue to solicit feedback throughout the process to inform the design of the fund for this and future years.

**Attachments:** 1) EOI CleanBC Industry Fund Draft

Contact:Alternative Contact:Prepared by:Neil DobsonMatt ZahynaczMaria E. SchmidtClean GrowthClean InvestmentClean Investment778-698-4083778-698-3702778-698-7184

Reviewed by	Initials	Date
DM	MZ	Mar 13, 2019
DMO	KK	Mar 11, 2019
ADM	JH	Mar 6, 2019
ED	ND	Mar 6, 2019
Dir./Mgr.	MZ	Mar 5, 2019
Author	MS	Mar 5, 2019

# cleanBC

CleanBC Program for Industry

# **Expression**of Interest

CleanBC Industry Fund

Issue date: March XX, 2019

Initial Submission Date and Time:

One complete electronic Response must be received by email delivered to CleanBCIndustryFund@gov.bc.ca <u>before</u> 11:59PM Pacific Time on April XX, 2019 in order to be considered in the 2019 CleanBC Industry Fund transition year.

Contact: CleanBCIndustryFund@gov.bc.ca



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# 1.0 Overview of the Requirement

The CleanBC Program for Industry directs a portion of B.C.'s carbon tax paid by industry into incentives that will help industry transition to cleaner operations and reduce greenhouse gas (GHG) emissions.

The program is **ONLY** available to industrial reporting operations throughout British Columbia (i.e., those with Attributable GHG emissions above 10,000 tCO<sub>2</sub>e per year).

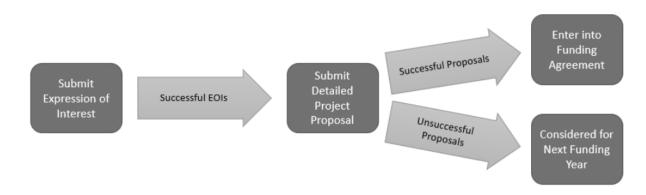
The program includes a CleanBC Industry Fund (Fund) that invests some industrial carbon tax revenue directly into emission reduction projects, helping to make industries cleaner and stronger.

The purpose of this Expression of Interest (EOI) is to identify Qualified Respondents that may be eligible to participate in a subsequent competition for funding.

Based on the review of the EOI Responses, the Province intends to invite Qualified Respondents with accepted EOIs to submit a detailed project proposal. Through a competitive process, proposals will be evaluated based on the following:

- Cost of projected GHG reductions;
- Project and emission reduction timelines;
- Strength of business case for funding;
- Benefits (including labour, environmental, community, Indigenous, and technological); and,
- Other Solicitation requirements determined by the Province.

Qualified Respondents with selected project for funding will be invited to enter into a funding agreement (Agreement).



The Province intends to issue one or more Solicitations to Qualified Respondents during the 2019 Funding Year (April 1, 2019 and March 31, 2020).

Please note: only Respondents who have submitted a Response that satisfies the Eligibility Criteria prior to the Initial Submission Date and Time will be eligible to participate in the first Solicitation issued under this EOI.

The Province will receive Responses submitted after the Initial Submission Date and Time, provided that any Respondent submitting a Response after the Initial Submission Date and Time will not be eligible to participate in the first Solicitation but may participate in subsequent Solicitations, if any.

The Province will review the Responses to this EOI within a reasonable period of time. The term during which Qualified Respondents will remain eligible to submit Proposals (the 2019 Funding Year) will not be extended or otherwise altered in the case of a Response being submitted after the Initial Submission Date and Time.

A number of the Eligibility Requirements relate to certified facts that must be included in the Response. The Province reserves the right to reject any Responses which it determines contains a false Certification.

# 2.0 Expression of Interest Definitions

Throughout this Expression of Interest, the following definitions will be used:

- d) **"2019 Funding Year"** means the 2019/20 government fiscal year period from April 1, 2019 to March 31, 2020;
- e) "Agreement" means a written funding agreement executed by the Province and the Contractor as a result of a Solicitation;
- f) "Associated with", in relation to emissions and a reporting operation, means emissions, other than emissions of carbon dioxide from Schedule C biomass, that are not attributable to the reporting operation but originate from the operation, or from mobile equipment or on-road vehicles primarily used by the reporting operation;
- g) "Attributable", in relation to emissions and a reporting operation, means emissions that are attributable to the reporting operation under GGIRCA for the purposes of emission reporting, excluding emissions from Schedule C biomass;
- h) "Certification" means a statement that the Respondent has certified as being true in the Response;
- i) "Contractor" means a Qualified Respondent who is a successful Proponent to a a Solicitation who enters into an Agreement with the Province;
- j) **"Eligibility Requirements"** means the Eligibility Requirements for Respondents and Projects set out in Section 4 of the EOI;
- k) **"Emission Reduction Quantification Guidelines"** means the guidelines set out in Section 5 of this EOI;
- 1) **"EOI"** means the process described in this Expression of Interest;

- m) "GGIRCA" means the Greenhouse Gas Industrial Reporting and Control Act;
- n) "Initial Submission Date and Time" means the initial submission date and time indicated on the cover page;
- o) "must" or "mandatory" means a requirement that must be met in order for a Response to receive consideration;
- p) **"Partner"** means a person identified in the Response as a Partner in accordance with section 3.11;
- q) "Primary Reporting Operation(s)" means one or more reporting operations operated by the Respondent and identified in the Response as the Primary Reporting Operation;
- r) **"Project"** means capital expenditures, facility improvements or software that, based on calculations made in accordance with the Emission Reduction Quantification Guidelines, will lead to a reduction in the quantity, measured in tCO<sub>2</sub>e, of GHG emissions that are Attributable to or Associated with the reporting operation identified in the Response;
- s) **"Proponent"** means a Qualified Respondent who provides a proposal, bid or other form of response in relation to a Solicitation;
- t) "Proposal" means a proposal, bid or other response to a Solicitation;
- u) **"Province"** means Her Majesty the Queen in Right of the Province of British Columbia as represented by the Minister of Environment and Climate Change Strategy;
- v) "Qualified Respondent" means a Respondent who meets the Eligibility Requirements in this EOI and has identified a Project that meets the Eligibility Requirements in this EOI;
- w) "Respondent" means a firm that submits, or intends to submit, a Response;
- x) "Response" means a response in the form of Appendix B and C submitted in reply to this EOI;
- y) **"Solicitation"** means a Request for Proposal or other form of Solicitation that may be issued to all Qualified Respondents;
- z) **"should" or "desirable"** means a requirement having a significant degree of importance to the objectives of this EOI; and,
- aa) "tCO2e" means metric tonnes of carbon dioxide equivalent.

Terms in this EOI that are defined in GGIRCA or regulations under GGIRCA, and are not otherwise defined above, have the meanings ascribed to them in GGIRCA or those regulations.

# 3.0 Expression of Interest

# 3.1 Enquiries

All enquiries related to this EOI are to be directed, in writing, to the email address on the front cover of this EOI. Information obtained from any other source is not official and should not be relied upon.

#### 3.2 Initial Submission Date and Time

One (1) complete electronic Response must be received via email before 11:59PM, Pacific Time on April XX, 2019 in order to be considered for the first Solicitation issued under this EOI. Respondents who have submitted a Response that satisfies the criteria set out in the EOI prior to the Initial Submission Date will be eligible to participate in the first Solicitation. The Province anticipates having only one Solicitation for the 2019 Funding Year but reserves the right to have more than one Solicitation.

The Province will receive Responses submitted after the Initial Submission Date and Time, provided that such any Respondent submitting a Response after the Initial Submission Date and Time may not be eligible to participate in the Solicitation for the 2019 Funding year, but may participate in subsequent Solicitations, if any. All Responses must be submitted by the Respondent in the same manner and format as originally outlined in this EOI.

The Province will review such Responses within a reasonable period of time. The term during which Qualified Respondents will remain eligible to submit Proposals (the 2019 Funding Year) will not be extended or otherwise altered in the case of a Response being submitted after the Initial Submission Date and Time.

For clarity, a Respondent who is unsuccessful in becoming a Qualified Respondent may submit a new Response at any time during the 2019 Funding Year.

# 3.3 Review and Selection

The program staff will assess Responses against the mandatory criteria. Responses not meeting all mandatory criteria will be rejected. Responses not achieving a pass in every category will not be considered further.

The Responses will be assessed in the order in which they are received. Qualified Respondents will be provided with a copy of the Solicitation if one is issued.

# 3.4 Rejection for False Certification

The Province reserves the right to reject any Response which it determines in its sole discretion contains a false Certification.

# 3.5 Multiple Submissions

Respondents may submit multiple Responses for multiple Projects.

# 3.6 Signed Responses

The Response must include a cover letter substantially similar to the cover letter set out in Appendix A. The cover letter must be signed, by a person authorized to sign, on behalf of the Respondent and to bind the Respondent to statements made in the Response to this EOI.

# 3.7 Changes to Response Wording

The Respondent will not change the wording of its Response after the Initial Submission Date and Time, and no words or comments will be added to the Response unless requested by the Province for purposes of clarification. The Respondent may submit a new Response after the Initial Submission Date and Time, which may be considered for subsequent Solicitations.

# 3.8 Request for Proposals

It is anticipated that a Solicitation will be issued to all Qualified Respondents in the spring of 2019.

# 3.9 Additional Information on the EOI

All subsequent information regarding this EOI, including changes made to this document, will be posted on the <u>program website</u>. It is the sole responsibility of the Respondent to check for amendments and additional information on the program website.

# 3.10 Notification of Outcome

The Ministry will issue an email notification to Respondents who were not successful in the EOI process.

# 3.11 Project Partners

Responses may not identify more than one Respondent.

Where a Project is expected to cause emission reductions at a reporting operation for which the Respondent is not the Operator, and the Respondent has included those reductions in its calculations of GHG emissions in the Response, the Project Proponent must identify the operators of those reporting operations as Partners in the Response and identify the reporting operations.

The Respondent is also encouraged to identify other persons that it anticipates will be substantial partners in the Project in the Response, including contractors, engineers, technology providers and financiers.

Solicitations will not require all Partners identified in the Response to be parties to a proposal submitted in response to a Solicitation, but the Respondent must certify that all Partners have reviewed the Response and agree with its content and that the Respondent reasonably anticipates that the Partners will participate in the Project as described in the Response.

# 4.0 Eligibility

# 4.1 Eligible Respondents

This EOI is open to Respondents that meet the following criteria:

- 1. **The Respondent must certify that it is the operator**, or in the case of a reporting operation with multiple operators, the designated operator, of the Primary Reporting Operation(s).
- 2. The Respondent certifies that it, or if applicable, a previous operator of a Primary Reporting Operation, has submitted emission reports under GGIRCA for the 2017 calendar year for all Primary Reporting Operations, indicating that the Attributable emissions from the Primary Reporting Operation(s) are over 10,000 tCO<sub>2</sub>e/year, or if no emission report has been submitted for a Primary Reporting Operation the Respondent certifies that that Primary Reporting Operation became a reporting operation in 2018 and that the Respondent intends to submit an emission report under GGIRCA for that operation for the 2018 calendar year.
- 3. **The Respondent must certify** that it has paid carbon tax in relation to fuel consumed by the Primary Reporting Operation(s).

# 4.2 Eligible Projects

Respondents must describe their project and estimate the emission reductions that will result from the Project in accordance with the Emission Reduction Quantification Guidelines (see section 5.0). Respondents may not describe more than one Project in a single Response.

Respondents must describe how the Project will reduce GHG emissions Attributable to or Associated with the Primary Reporting Operations and any other reporting operations identified in the Response and estimate the emission reductions from the Project. Projects relating to both combustion and non-combustion emissions will be considered.

To be eligible, the Response must clearly certify that the Project meets the following eligibility criteria:

- Based on calculations made in accordance with the Emission Reduction Quantification Guidelines, the Project will result reductions in GHG emissions Attributable to or Associated with the reporting operations identified in the Response.
- 2. The Project is **not required by provincial or federal laws** that are in force as of the submission of the Response, or, if the Proponent is required to implement the Project, that the project involves an earlier implementation than required by law.
- 3. The Project will only use commercially available technologies, defined as equipment, technology, or a product with proven commercial sales or that has been demonstrated at a commercial scale in other facilities.

# **5.0** Emission Reduction Quantification Guidelines

Respondents are expected to use:

- 1. GHG emission reductions estimation methodologies consistent with the quantification methods under the <u>Greenhouse Gas Emission Reporting Regulation</u> ("GGERR"), and
- 2. Standard approaches to quantifying emission reductions from other types of reduction projects (e.g., carbon offset projects).

Additional information on emissions quantification can be found on the Province of BC – Reporting emissions website on quantifying industrial GHG emissions.

Respondents must certify that they have followed the following guidelines:

- Emission Reductions have been estimated by establishing a baseline, or business as
  usual, which represents a conservative estimate of year-to-year emissions from 2019
  to 2039 that would occur if the Project is not implemented, and Project case
  emissions, that represents a conservative estimate of year to year emissions from
  2019 to 2039 if the Project is implemented, and for each year subtracting the Project
  case emissions from the baseline emissions.
- Estimates of reductions in Attributable or Associated GHG emissions for the
  reporting operations identified in the Response have been made based on baseline and
  project case scenarios at such operations and have taken into consideration all sources
  of Associated or Attributable emissions at those operations that are significantly
  affected by the Project.
- Baseline emission estimates used in estimating emission reductions is consistent with the equipment and associated information reported under GGERR by operators of the reporting operation listed in the response.
- Baseline emission estimates take into account any applicable provincial or federal laws requiring implementation of the Project.
- The description of equipment currently in use matches information reported under <u>GGERR</u> (if applicable) or an explanation is provided for the difference.
- The emission reduction estimates have taken into consideration any significant foreseeable increases in emissions at other locations resulting from changes to inputs or outputs of products or services, and these have been deducted from emission reduction estimates.
- Emission reductions have been estimated and expressed in tCO<sub>2</sub>e as defined in GGERR. The Global warming potentials to calculate tCO<sub>2</sub>e are those specified in the Schedule of the Carbon Neutral Government Regulation.
- For GHG quantification for Projects that propose to reduce GHG emissions by switching to cleaner fuels (e.g., from carbon-intensive fuels to natural gas or

electricity), the emission reduction estimate is based on methodologies consistent with BC's Fuel Switch Protocol.

# 6.0 Mandatory Criteria

The following are mandatory requirements. Responses that do not clearly demonstrate how they meet criteria will receive no further consideration during the qualifications review process:

Criteria	
a)	One complete electronic Response must be submitted electronically via email to the CleanBCIndustryFund@gov.bc.ca email address by 11:59PM Pacific Time on the Initial Submission Date and Time.
b)	The Response must be in English and must <b>not</b> be sent by facsimile, only to the <a href="mailto:CleanBCIndustryFund@gov.bc.ca">CleanBCIndustryFund@gov.bc.ca</a> email address
c)	The Response must include a cover letter substantially similar to the cover letter set out in Appendix A and the cover letter must be signed, by a person authorized to sign on behalf of the Respondent and to bind the Respondent to the statements made in the Response to this EOI.
d)	The Response must be in substantially the forms attached to this EOI as Appendices B and C.

# 7.0 Additional EOI Terms

# 7.1 Respondent's Response

The following format and sequence should be followed in order to provide consistency in the Respondent's submissions and ensure each Response receives full consideration. All pages should be consecutively numbered

# 7.2 Respondent Expenses

Respondents are solely responsible for their own expenses in preparing a Response and for subsequent negotiations with the Province, if any. The Province will not be liable to any Respondent for any claims, whether for costs or damages incurred by the Respondent in preparing the Response, loss of anticipated profit in connection with any final Contract, or any other matter whatsoever.

# 7.3 Acceptance of Responses

This EOI is not an agreement to purchase goods or services or provide funding. The Province is not bound to enter into an Agreement with any Qualified Respondent. Responses will be assessed in light of the qualification review criteria. The Province will

be under no obligation to receive further information, whether written or oral, from any Respondent.

# 7.4 Definition of Agreement

Notice in writing to a Respondent that it has been identified as a Qualified Respondent will not constitute an Agreement nor give the Respondent any legal or equitable rights or privileges relative to the funding requirements set out in this EOI or in any subsequent Solicitiation. Only if a Qualified Respondent and the Province enter into a subsequent full written Agreement, as a result of a Solicitation, will a Respondent acquire any legal or equitable rights or privileges.

# 7.5 Modification of Terms

The Province reserves the right to modify the terms of this EOI at any time at its sole discretion. This includes the right to cancel this EOI at any time without issuing a Solicitation and the right to cancel the Solicitation at any time without entering into an Agreement.

# 7.6 Ownership of Responses

All documents, including Responses, submitted to the Province become the property of the Province. They will be received and held in confidence by the Province, subject to the provisions of the *Freedom of Information and Protection of Privacy Act*.

# 7.7 Confidentiality of Information

Information pertaining to the Province obtained by the Respondent as a result of participation in this EOI and any subsequent Solicitation is confidential and must not be disclosed without written authorization from the Province.

# 7.8 Collection and Use of Personal Information

Respondents are solely responsible for familiarizing themselves, and ensuring that they comply, with the laws applicable to the collection and dissemination of information, including resumes and other personal information concerning employees and employees of any subcontractors. If this EOI requires Respondents to provide the Province with personal information of employees who have been included as resources in response to this EOI, Respondents will ensure that they have obtained written consent from each of those employees before forwarding such personal information to the Province. Such written consents are to specify that the personal information may be forwarded to the Province for the purposes of responding to this EOI and use by the Province for the purposes set out in the EOI. The Province may, at any time, request the original consents or copies of the original consents from Respondents, and upon such request being made, Respondents will immediately supply such originals or copies to the Province.

# Appendix A – Response Covering Letter

Letterhead or R	espondent's name and address			
Date:				
MINISTRY OF CLEANBC INI	Environment and Climate Change Strategy Dustry Fund			
Attention:	Fund Manager			
Subject:	CleanBC Industry Fund Expression of Interest Issued March XX, [INCLUDING ANY AMENDMENTS OR ADDITIONS (THE "EXPRESSION OF INTEREST")]			
	[NOTE: amendments and additions will be posted to the Program website at <a href="https://www2.gov.bc.ca/gov/content/environment/climate-change/industry/cleanbc-program-for-industry/cleanbc-industry-fund">https://www2.gov.bc.ca/gov/content/environment/climate-change/industry/cleanbc-program-for-industry/cleanbc-industry-fund</a> It is the Respondent's sole responsibility to check for amendments and additional information.]			
The enclosed R	esponse is submitted in response to the above-referenced Expression of Interest.			
investigations a	fully read and examined the Expression of Interest and have conducted such other is were prudent and reasonable in preparing the Response. We are authorized to submit in behalf of the Respondent.			
Yours truly,				
Sig	nature			
Name:				
Title:				
Telephone Num	nber:			
e-mail address:				
Legal name of I	Respondent:			
Date:				

# Appendix B – EOI Response Form

SECTION 1: RESPONDENT INFORMATION				
Legal Name of Respondent				
Trade Name and Address(es) of the Primary Reporting Operation(s)				
BCGHGID(s) of Primary Reporting Operation(s)				
Company Incorporation/Registration Number				
	be the contact to whom communications hould be knowledgeable regarding detail			
Primary Contact Name	Business	Phone		
Contact Title	·	·		
Contact E-mail				
Applicant Contact Address				
SECONDARY CONTACT				
Secondary Contact Name	Business	Phone		
Contact Title				
Contact E-mail				
PROJECT PARTNERS Respondent must identify as Project Partners all operators of reporting operations at which emission reductions identified in this Response are expected to occur and must identify the relevant reporting operations.  Respondent may identify other Project Partners - Examples of eligible partnerships include: financial support, construction and/or operation, technical support (i.e., facility emission reduction design). These may or may not be operators of other reporting operations.  [Respondent may add additional partners to table, as needed]				
Legal Company Name of Partner 1 (if applicable)				
Role of Partner 1				
BCGHGID (if applicable)				
Company Incorporation/Registration Number				
Legal Company Name of Partner 2 (if applicable)				
Role of Partner 2				
BCGHGID (if applicable)				
Company Incorporation/Registration Number				

SECTION 2: EXPRESSION OF INTEREST CRITERIA				
RESPONDENT ELIGIBILITY:				
The Respondent hereby certifies that it is the operator, or in the case of a reporting operation with multiple operators, the designated operator, of the Primary Reporting Operation(s).	☐ yes	no		
The Respondent hereby certifies to the matters set out in section 4.1 (2) of the ${\rm EOI.^1}$	☐ yes	no		
The Respondent hereby certifies has paid carbon tax in relation to fuel consumed by a Primary Reporting Operation.	☐ yes	no		
PROJECT ELIGIBILITY:				
The Respondent hereby certifies that based on calculations made in accordance with the Emission Reduction Quantification Guidelines, the Project will result in reductions in GHG emissions Attributable to or Associated with the reporting operations identified in the Response.	☐ yes	no		
The Respondent hereby certifies that the Project is not required by provincial or federal laws that are in force as of the submission of the Response, or, if the Proponent is required to implement the Project, that the project involves an earlier implementation than required by law.	☐ yes	no		
If yes to the previous question, please describe how the project exceeds proving	ncial or federal red	quirements.		
The Decreased and horselve and Good that the Deciment will as be used				
The Respondent hereby certifies that the Project will only use commercially available technologies, defined as equipment, technology, or a product with proven commercial or that has been demonstrated at a commercial scale in other facilities.	yes	no		
If yes to the previous question, please explain how the project meets the criteria. This may include providing example(s) of where the technology has demonstrated commercially deployment, as defined above.				

<sup>&</sup>lt;sup>1</sup> The Respondent certifies that it, or if applicable, a previous operator of a Primary Reporting Operation, has submitted emission reports under GGIRCA for the 2017 calendar year for all Primary Reporting Operations, indicating that the Attributable emissions from the Primary Reporting Operation(s) are over 10,000 tCO₂e/year,\_or if no emission report has been submitted for a Primary Reporting Operation the Respondent certifies that that Primary Reporting Operation became a reporting operation in 2018 and that the Respondent intends to submit an emission report under GGIRCA for that operation for the 2018 calendar year.

# **Appendix C Project Information Form**

NOTE: **THIS FORM IS MANDATORY BUT NOT ASSESSED AT EOI STAGE**. HIGH-LEVEL INFORMATION WILL BE USED FOR PROGRAM INFORMATION AND PLANNING. DETAILED INFORMATION ON THE MAY BE REQUESTED AT REQUEST FOR PROPOSAL STAGE

<b>PROJECT LOCATION</b> Describe the project location as precisely as possible. Provide a site address if available. Please state if the site is owned by the Respondent(s) or Partner(s).
PROJECT SUMMARY
In 250 words or fewer, please provide a <b>general</b> explanation of the estimated reductions of the project and scope of work.
Type of equipment /technology currently in use (please limit your response to 50 words or fewer)
Type of <b>new</b> equipment/technology to be installed (please limit your response to <b>50 words or fewer</b> )
ESTIMATE OF PROJECT START DATE AND COST  Estimated Construction Start Date (way mm dd)
Estimated Construction Start Date: (yyyy-mm-dd)  Estimated Construction Completion Date: (yyyy-mm-dd)
Estimated Construction Completion Date: (yyyy-mm-dd)  Estimated Operational Start Date: (yyyy-mm-dd)

PROJECT COSTS				
Estimated Project Cost: (in dollars)	\$			
If available, provide a breakdown of the estimated project cost, including administration, construction, equipment, as well as any other known costs. The breakdown can be presented in dollars or as percentages of the total cost (please limit your response to <b>100 words or fewer</b> )				
ESTIMATED GHG EMISSIONS REDUCTIONS				
Estimated <u>Annual GHG emissions reductions from the project:</u> $(tonnes\ of\ CO_2e)$				
Number of years the project will reduce GHG emissions:				
Provide any assumptions used to estimate GHG emissions reductions and the number of years the project will reduce emissions. Assumptions may relate to emissions factors, equipment (e.g. specifications, performance, or operating life), historical operating information, or any other information required to understand GHG estimates (please limit your response to <b>200 words or fewer</b> ).				

SURVEY QUESTION - OPTIONAL					
The CleanBC Industry Fund is committed to continuous improvement. Feedback on EOI process is encouraged to improve the application process in future years.					
Answers to the following questions will be recorded anor assessment of the application.	ymously and will not be included in th	e			
Approximately how many hours were spent completing the information?	nis Expression of Interest and additiona	l project			
This EOI is clear, user friendly and relevant to the application process.	yes	no			
Are there any suggestions or comments on how this form	and/or EOI process can be improved?				

# MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY BULLETS

March 4, 2019 File: 280-20 CLIFF/eApprovals #: 339619/13639

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy

**SUBJECT:** Minister meeting MLA Larson and MLA Ashton to discuss the Nickel Plate Nordic Centre's proposal to expand Nickel Plate Park.

#### BULLET RESPONSE:

- Nickel Plate Park is a small Class A park (105 ha) established in 1938, located about 39 km west of Penticton and 5 km from the Apex Mountain Resort.
- In July 2018, the Nordic Centre submitted a proposal to the Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNR) to expand Nickel Plate Park by approximately 3,000 ha to include the Nordic Centre, a connecting corridor to Brent Mountain Protected Area, and the land between the Nordic Centre and the Controlled Recreation Area of Apex Mountain.
- The Nickel Plate Nordic Centre is a non-profit society that manages approximately 50 km of groomed Nordic ski trails. The Nordic Centre operates on the Crown land under an agreement with Recreation Sites and Trails of FLNR, under a Section 56 Recreation Site under the *Forest and Range Practices Act*.
- The Nordic Centre is concerned about forestry activities in the area and the resulting impacts on their operations (e.g. trees provide a wind barrier preventing snow being blown into the groomed ski trails).
- A Memorandum of Understanding has been developed between the forest licensees and stakeholders such as the Nordic Centre, Apex Mountain Resort and the Apex Property Owner's Association. This partnership arrangement appears to be working well, but future logging is identified for the area and the Nordic Centre is seeking a longer-term solution.
- The Okanagan-Shuswap Land and Resource Management Plan (LRMP), established in 2001, identified the recreation values of this area and established it as an Intensive Recreation Zone which does permit forest harvesting activities and other commercial activities.
- FLNR has indicated to the proponents that they are working closely with forest licensees in the area to manage impacts.
- The Minister of Environment and Climate Change Strategy has responded to the Nordic Centre on multiple occasions since July 2018 advising that it supports the recommendations of the LRMP and would not advance the park expansion proposal at this time due to outstanding Goal 2 site recommendations from the LRMP.

- As identified in the correspondence from MLA Ashton and MLA Larson, the Nordic Centre has put forth three options that they wish government to consider. All options impact FLNR and require their engagement and support:
  - (a) Adopt the original park expansion proposal as presented in July 2018.
  - (b) Expand Nickel Plate Park to include just the Nordic Centre.
  - (c) Remove the Nordic Centre from the timber harvesting land base.
- As the designation of new protected lands as proposed is a question of land use, FLNR is the provincial agency responsible for reviewing and assessing the options as presented above.

**Attachment**: 339619 Proposal to Expand Nickle Plate Provincial Park

Contact:Alternate Contact:Prepared by:Jim Standen, ADMJohn Trewhitt, DirectorKen Morrison, Senior AdvisorBC Parks and COSKootenay OkanaganProvincial Services BranchDivisionBC ParksBC Parks250-387-1288250-490-8249778-698-4264

ENV Approvals			
Reviewed by Initials		Date	
DM	MZ	Mar 6/19	
DMO	KK	Mar 5/19	
ADM	JS	Mar 4/19	
Ex. Dir., PSB	DR	Mar. 4/19	
Director, PLA	BH	Mar. 4/19	
Author	KEM	Mar 4/19	

# Constituency Office:

210 - 300 Riverside Drive Penticton, BC V2A 9C9 Phone: 250 487-4400

Fax: 250 487-4405

e-mail: dan.ashton@leg.bc.ca website: www.danashtonmla.ca



Dan Ashton, M.L.A. (Penticton)

January 29, 2019.

To: The Honourable George Heyman

CC: The Honourable Doug Donaldson

Re: Nickel Plate Nordic Centre

I recently met with representatives of the Nickel Plate Nordic Centre regarding a proposal to expand Nickel Plate Lake Provincial Park. The proposal was submitted to your offices in July regarding their interest in finding a way to prevent losing the Nordic Centre as a result of logging. Minister Heyman replied that it would not be considered as there remain outstanding protected area proposals in the 2001 OSLRMP.

It is important that we find some way to protect the Nordic Centre as it is a valuable economic, recreational and social resource for the South Okanagan.

In speaking with the Nickel Plate representatives, they advised that they did a lot of work on the Park Expansion Proposal and feel that it has standalone merit and should not be subject to waiting for other outstanding issues to be resolved.

They identified three ways to protect the Nordic Centre:

- 1. Adopt the Park Expansion Proposal as is (with the appropriate public consultation). Or alternatively,
- 2. Expand the existing Nickel Plate Provincial to include just the Nordic Centre. Or alternatively,
- 3. Remove the Nordic Centre from the Timber Harvesting Land Base.

The first two are within the jurisdiction of the MOE while the third is FLNRORD. Would it therefore be possible to arrange a meeting with the three of us and a couple of representatives of the Nordic Centre to discuss alternatives? I'm thinking maybe sometime the second or third week of February.

Respectfully,
Dan Ashton

MINISTER'S OFFICE - RECEIVED MINISTRY OF ENVIRONMENT

JAN 31 2019

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☐ cc	to the service of the property and		
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# MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY BULLETS

March 15, 2019 File: 280-20 CLIFF/eApprovals #: 340710/13887

**PREPARED FOR:** Honourable George Heyman, Minister of Environment and Climate Change Strategy (ENV); and Honourable Scott Fraser, Minister of Indigenous Relations and Reconciliation (MIRR)

**SUBJECT:** Joint Minister's meeting with Simpow First Nation to discuss the management of Caves in Wells Gray Park

**ATTENDEES:** Minister Heyman; Minister Fraser; Chief Shelly Loring; Councillor Tina Donald; Mark Zacharias, Deputy Minister, ENV; Jim Standen, Assistant Deputy Minister of BC Parks and Conservation Officer Service Division; MIRR staff TBD

#### **BULLET RESPONSE:**

- The Simpcw FN and Canim Lake Indian Band have written Minister Heyman
  expressing concerns over the lack of engagement with them over BC Parks'
  discovery of the cave in Wells Gray Park. They are demanding that all visitation
  to, and work associated with, the cave be suspended pending meetings with the
  Minister or duly authorized person(s) to discuss continued consultation, comanagement, and decision making.
- With the nature of the reported site not yet understood, BC Parks staff and a small group of geologists and cavers conducted a short exploration of the newly found pit opening. It was not until this initial exploration that the pit was confirmed to be a cave and BC Parks staff came to understand the significance and consequently contacted both Simpcw FN and Canim Lake Indian Band. Additionally, BC Parks secured funding to assist both bands to attend the site and share traditional knowledge, background and management guidance related to cultural and spiritual value.
- BC Parks did not disclose the discovery of the cave in the public domain. This
  was done through external media coverage and without the endorsement of the
  Province. Also, BC Parks has never promoted or endorsed the name Sarlacc Pit.
  In contrast, BC Parks wishes to actively work with First Nations to give the cave a
  culturally appropriate name.
- The Province is very interested in engaging with First Nation groups as a foremost priority, contrary to any perceptions that may have originated from a non-government presentation on the cave in Clearwater.
- BC Parks has taken strong measures to ensure that the cave site is not disturbed by first and foremost (as of December 14, 2018) closing the cave and surrounding area to all public visitation until risks to public safety, (First Nation) cultural heritage and ecological values have been assessed.
- BC Parks will be engaging with Simpcw and Canim Lake Indian Band to solicit
  their interest in obtaining specialized training and joining expeditions into the
  cave, should such activities be deemed appropriate.

• BC Parks wishes to collaborate with Simpcw and Canim Lake First Nations to protect and manage the cave. Late in 2018, BC Parks began developing a draft Cave Management strategy to ensure that cultural and other values associated with the cave are properly protected. As a next step, the agency wishes to collaborate with the two First Nations to clearly lay out a joint vision and management plan for continued protection of cultural values and other values associated with the cave. Only with Simpcw and Canim Lake First Nations support and involvement would any further cave entries and investigations be supported, or any other activities be authorized as per current BC parks policy.

Contact:Alternate Contact:Prepared by:Jim Standen, ADMVolker MichelfelderChris NowotnyBC Parks and COSBC Parks/ThompsonBC Parks/Thompson CaribooDivisionCariboo250-387-1288604-790-1936250-398-4888

ENV Approvals				
Reviewed by	Initials	Date		
DM	MZ	29-Mar-19		
DMO	KK	28-Mar-19		
ADM	JS	28-Mar-19		
Act ROB Exec	JT	26-Mar-19		
Dir.				
Dir./Mgr.	VM	25-Mar - 19		
Author	CN	20-Mar-19		