

**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

-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misconduct in his dealings with the District of Saanich's Environmental Development Permit Area (EDPA) (since repealed).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.

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DMO	<u>KK</u>	<u>March 26/19</u>
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Dir./Mgr.	<u>LG</u>	<u>March 21/19</u>
Author	<u>RB</u>	<u>March 12/19</u>

**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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.

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**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

May 4th, 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.

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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.

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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)

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3) Mandate “best bid wins” philosophy

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

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**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.

Major Project Construction Components	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 12th 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 [CRD project webpage](#).

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 unfolds. 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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**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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:
 - 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 land-applied 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:
 - allow time for farmers to adapt their management practices;
 - 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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**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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 BC's total emissions.
- BCTA raised the following requests in their 2019/20 Budget submission:
 - 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.

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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 (tCO₂e) per year are required to annually report their greenhouse gas (GHG) emissions to the provincial government. Operations emitting 25,000 or more tCO₂e 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 quantities 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 CO₂e neither including emissions from electricity imports nor including CO₂ 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 CO₂ from biomass in Schedule C, were 18.6 million tonnes of CO₂e (Mt CO₂e) in 2017, 1.1% higher than the 18.4 MT CO₂e reported in 2016.
- 67.4% of the total emissions (i.e. 12.5 MT CO₂e) 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 CO₂ 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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ED	ND	2019/02/22
Director	AF	2019/02/14
Unit Head	HP	2019/02/12
Author	AvR	2019/01/10

Summary

	Emissions Details by Source Categories, CO2e																Summary, t CO2e								
	Combustion								Fugitive and Vented								Totals by Gas Type							Grand Total Emissions	
	For Energy Production				Not for Energy Production																				
	CO2 fossil	CO2 Biomass	CH4	N2O	CO2 fossil	CO2 Biomass	CH4	N2O	CO2 fossil	CO2 Biomass	CH4	N2O	HFCs	PFCs	Sf6	CO2 fossil	CO2 Biomass	CH4	N2O	HFCs	PFCs	Sf6			
SFO	5,269,176	6,437,413	50,890		158,126	250,000	53,125	2,654	495	2,053,910	9,067,869	983,253	57,526	164	63,416	228	7,583,171	15,558,407	1,036,797	216,147	164	63,416	228	24,458,330	
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. 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.

3. Adversely, Aitken Creek Gas Storage ULC, Ikuma Resources Corp. did not submit their individual reports, and thus their emissions are not reflected in the sheet "Individual".

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.
- 4 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 here 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 tonnes 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, Ikuma Resources Corp. did not submit their individual reports, and thus their emissions are not reflected in the sheet "Individual".

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Linear Facility Operation

Administrative Information										Emissions Details by Source Categories, CO ₂ e																			Summary, t CO ₂ e					Grand Total Emissions	Verification		Prepared in Accordance with regulation			
Company Name	Facility Name	Primary Activity NAICS Code & Description	Facility Type	Latitude	Longitude	Regional District	Contact	Phone Number	Email Address	For Energy Production					Combustion					Not for Energy Production					Fugitive and Vent					Totals by Gas Type						Verification Body		Verification Result		
										CO ₂ Total	CO ₂ Process	CH ₄	N ₂ O	CO ₂ Total	CO ₂ Process	CH ₄	N ₂ O	CO ₂ Total	CO ₂ Process	CH ₄	HFCs	PFCs	SF ₆	CO ₂ Total	CO ₂ Process	CH ₄	HFCs	PFCs	SF ₆	CO ₂ Total	CO ₂ Process	CH ₄	HFCs		PFCs			SF ₆		
Adrian Creek Gas Storage LLC	Adrian Creek Gas Storage LLC	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Lantern Hill	(250) 762-7681	lantern.hill@adrianhill.com	48,888		20	214	4,814		888	8	3		3,375				48,891	48,888	4,884	214				53,119	53,119	5,098	214		Adrian Hill Petroleum Services Ltd.	None	None		
Alouette Pipeline Ltd.	Alouette Pipeline Ltd.	4800 - Pipeline Transportation of Natural Gas	UGS			British Columbia	Tron Branch	(504) 201-1109	Tron.Branch@alouettepipeline.com	18,044		24	142					1		3,252				18,045	18,044	3,252	142				21,438	21,438		Alouette Pipeline Ltd.	None	None				
Alouette Ltd.	Alouette Ltd.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Tron Branch	(504) 201-1109	Tron.Branch@alouettepipeline.com	187,847		70	284	18,808		5,112	11	5		18,919				187,852	187,847	18,919	284				201,063	201,063	2,000	284		Alouette Pipeline Ltd.	None with audit/audit	None		
ARC Resources	ARC Resources	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	ARC (Parker)	(250) 832-8812	arc@arcresources.com	207,874		18,170	4,528	45,571		5,178	12	8		49,876				207,892	207,874	49,876	4,528				262,291	262,291	4,528	4,528		ARC Resources Ltd.	None with audit/audit	None		
Black River Energy	Black River Energy	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Black River	(250) 832-8812	blackriver@blackriverenergy.com	36,281		4,617	261	1,580		261	3	436		3,476				36,286	36,281	4,617	261				41,585	41,585		Black River Energy Ltd.	None	None				
Brackley Energy Corporation	Brackley Energy Corporation	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Brackley Energy	(250) 514-1244	brackley@brackleyenergy.com	71,681		486	158	1,580		158	1	25		8,398				71,687	71,681	8,398	158				80,683	80,683		Brackley Energy Corporation	None	None				
British Columbia Hydro and Power Authority	BC Hydro Transmission and Distribution System	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	BC Hydro	(250) 242-2282	bc.hydro@bc.ca															232	10,182						232	10,182		BC Hydro	None with audit/audit	None				
Canadian Natural Resources Limited	CNR, BC Ltd.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	BC Hydro	(250) 242-2282	bc.hydro@bc.ca																								1,188,200	1,188,200		Canadian Natural Resources Limited	None	None		
Canadian Energy Inc.	Canadian Energy Inc.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	BC Hydro	(250) 242-2282	bc.hydro@bc.ca	117,824		8,187	1,208	4,408		118	14	24		16,726				117,824	117,824	16,726	1,208				135,762	135,762		Canadian Energy Inc.	None with audit/audit	None				
Central Energy Services	Central Energy Services	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Central Energy	(250) 242-2282	central.energy@bc.ca	20,192		1,450	274	899		19	1	147		2,566				20,192	20,192	2,566	274				23,033	23,033		Central Energy Services	None with audit/audit	None				
Compass Energy Inc.	Compass Energy Inc.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Compass Energy	(250) 242-2282	compass.energy@bc.ca	96,172		1,488	401	1,500		1				8,756				96,173	96,172	8,756	401				105,330	105,330		Compass Energy Inc.	None with audit/audit	None				
Coquille Energy Ltd.	Coquille Energy Ltd.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	1,211		155	17	219		15	1			3,421				1,211	1,211	3,421	17				4,664	4,664		Coquille Energy Ltd.	None with audit/audit	None				
Coquille Energy Services	Coquille Energy Services	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	4,888		426	162	2,014		396	1	11		3,187				4,888	4,888	3,187	162				8,185	8,185		Coquille Energy Services	None with audit/audit	None				
Coquille Energy Services Inc.	Coquille Energy Services Inc.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	14,648		2,441	261	1,580		162	1	244		3,647				14,648	14,648	3,647	261				18,593	18,593		Coquille Energy Services Inc.	None with audit/audit	None				
Coquille Energy Services Corp.	Coquille Energy Services Corp.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	14,647		2,441	149	4,470		178	1	1,688		3,185				14,647	14,647	3,185	149				18,582	18,582		Coquille Energy Services Corp.	None with audit/audit	None				
Coquille Energy Services Ltd.	Coquille Energy Services Ltd.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	19,648		2,441	1,418	2,014		261	1	88		3,647				19,648	19,648	3,647	261				23,585	23,585		Coquille Energy Services Ltd.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None with audit/audit	None				
Coquille Energy Services Ltd. & Co.	Coquille Energy Services Ltd. & Co.	211100 - Oil and gas extraction, except oil sands	UGS			British Columbia	Coquille Energy	(250) 242-2282	coquille.energy@bc.ca	155,641		13,211	1,454	2,881		1,208	1	4,408		18,817				155,641	155,641	18,817	1,454				174,901	174,901		Coquille Energy Services Ltd. & Co.	None					

Material GHG Reporting

Individual Facilities within A Linear Facilities Operation

[illegible]

AgriEnergy Energy Transmission	Arden Creek Plant	231113 - Conventional Oil and Gas Extraction	IT	A	58.3548	-121.972	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	33,790	1,768	283	3,502	333	21	631	3,081		33,790	16,288	3,264	364							22,251	
AgriEnergy Energy Transmission	EC Aggregated Facilities (Browns < 16,000 l CO2eq)	231113 - Conventional Oil and Gas Extraction	L	DE			British Columbia	Downstream	483242-3802	downstream@earthlink.net	5,193	383	111	3,282	545	19	26	4,136		5,193	6,531	1,859	189							13,791	
AgriEnergy Energy Transmission	EC Aggregated Facilities (Browns < 16,000 l CO2eq)	486210 - Pipeline Transportation of Natural Gas	L	DE			British Columbia	Downstream	483242-3802	downstream@earthlink.net	8,004	381	235	694	78	4	1	2,095		8,004	9,354	2,370	274							11,277	
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	486210 - Pipeline Transportation of Natural Gas	IT	A	55.136	-118.541	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	17,016	27	121	8,470	1,099	44	11	1,847		17,016	25,487	2,773	163							18,451	
AgriEnergy Energy Transmission	Recon Station 1 - Kinky Creek	486210 - Pipeline Transportation of Natural Gas	IT	A	55.181	-121.393	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	10,510	338	338	1,271	338	8	1	817		10,510	14,885	2,885	137							12,551	
AgriEnergy Energy Transmission	Recon Station 5 - Mearls	231113 - Conventional Oil and Gas Extraction	IT	A	54.951	-121.121	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	18,185	351	257	561	63	1	1	887		18,185	25,487	1,851	268							20,688	
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Conventional Oil and Gas Extraction	IT	A	55.18472	-121.338	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	87,185	132	810	5,074	757	35		32		87,185	111	688								88,303	
AgriEnergy Energy Transmission	Fort Nelson Gas Plant	231113 - Conventional Oil and Gas Extraction	IT	A	58.4539	-121.680	NORTHWEST TERRITORIES	Downstream	483242-3802	downstream@earthlink.net	174,788	148	1,545	15,080	3,453	108	435,143	1,538	25	174,788	176,246	4,349	1,664							178,133	
AgriEnergy Energy Transmission	Fort Nelson North Processing Facility	231113 - Conventional Oil and Gas Extraction	IT	A	59.00883	-121.554	NORTHWEST TERRITORIES	Downstream	483242-3802	downstream@earthlink.net	120,752	888	884	15,344	2,352	68	272,886	237		120,752	377,881	3,349	752							401,851	
AgriEnergy Energy Transmission	FS Nelson Refining Pipeline	231113 - Conventional Oil and Gas Extraction	IT	A	58.4	-122.424	NORTHWEST TERRITORIES	Downstream	483242-3802	downstream@earthlink.net	118	8	1	11,757	2,188	48	7	813		118	15,882	3,811	67							16,963	
AgriEnergy Energy Transmission	FS Nelson Refining Pipeline	231113 - Conventional Oil and Gas Extraction	IT	A	58.70	-128.610	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	306	8	3	8,008	552	37	32	2,018		306	9,464	1,296	61							11,451	
AgriEnergy Energy Transmission	McMahon Gas Plant	231113 - Conventional Oil and Gas Extraction	IT	A	56.1158	-120.688	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	48,517	23	259	21,284	2,862	114	67,684	1,095	1	48,517	137,370	1,862	374							149,725	
AgriEnergy Energy Transmission	Peak River Gas Plant	231113 - Conventional Oil and Gas Extraction	IT	A	58.2722	-121.843	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	376,434	1,893	3,595	3,144	384	32	205,512	311		376,434	388,117	2,512	3,389							393,463	
AgriEnergy Energy Transmission	Station 1 - Taylor	231113 - Conventional Oil and Gas Extraction	IT	A	56.50	-120.414	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	45,104	1,645	814	441	65	2	1	1,494		45,104	65,406	3,210	817							68,431	
AgriEnergy Energy Transmission	Transmission Mainline	486210 - Pipeline Transportation of Natural Gas	IT	A	55.40529	-122.792	PLACER COUNTY	Downstream	483242-3802	downstream@earthlink.net	1,658,578	3,147	7,897				39	149,451		1,658,578	1,618,617	15,839	7,887							1,179,311	
AgriEnergy Energy Transmission	EC Aggregated Facilities (Browns < 16,000 l CO2eq)	231113 - Oil and gas extraction (except oil sands)	L	DE			British Columbia	Refining/Petrochem	230578-8238	refining@pacer.com	7,616	181	40	97	15	0		7,913		7,616	866	88								8,593	
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	58.329	-121.647	PLACER COUNTY	Refining/Petrochem	230578-8238	refining@pacer.com	7,785	190	45	1,004	180	1	1	1,780		7,785	8,872	1,130	81							11,093	
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	L	DE			British Columbia	Refining/Petrochem	483242-3802	refining@pacer.com	1,147	71	20	2,862	138	1	50	2,374		1,147	2,558	23,583	21							26,862	
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	57.80081	-120.021	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	30,502	887	95	544	1	78	8	3,290		30,502	33,012	3	4,379	99							35,277
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	L	DE			British Columbia	Refining/Petrochem	483242-3802	refining@pacer.com	7,684	625	71	554	1	35	14	1,086		7,684	9,122	1	3,246	71							12,143
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	L	DE			British Columbia	Refining/Petrochem	483242-3802	refining@pacer.com	2,408	7	81	20,187	2,076	32	1	801		2,408	27,078	1,861	91								31,631
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
AgriEnergy Energy Transmission	Recon Station 18 - Cedar Lake	231113 - Oil and gas extraction (except oil sands)	IT	A	56.91947	-120.210	PLACER COUNTY	Refining/Petrochem	483242-3802	refining@pacer.com	12,048	781	158	884	107	0	8	18,874		12,048	28,762	26,762	159								13,428
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2017 BC Industrial Facilities GHG Report

Electricity Import Operations

Administrative Information										Total Emissions, t CO ₂ e	Verification		
Company Name	Facility Name	Primary Activity NAICS Code & Description	Facility Type	Facility Location		Regional District	Contact				Verification Body	Materially correct; Fair and accurate	Prepared in Accordance with regulation
				Latitude	Longitude		Name	Phone Number	Email Address				
FortisBC Inc.	Electric Contact Center	221121—Electric Bulk Power Transmission and Control	EIO	49.28683	-117.62704	British Columbia	Jamie King	2503680649	Jamie.King@fortisbc.com	59,411		Missing Verification Statement	
Powerex Corp.	Powerex EIO	221111—Hydro-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	331410—Non-Ferrous Metal (except Aluminum) Smelting and Refining	EIO	49.10194	-117.71722	British Columbia	Thompson Hick	2503644515	Thompson.Hickey@teck.com	1,900		Missing Verification Statement	
Summation										1,260,837		Missing 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 CO₂e, not including emissions from electricity imports nor CO₂ 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 CO₂ emission was released from biomass in Schedule C?

During 2017, 15.59 Mt CO₂ was released from combusting biomass in Schedule C, a 1.9% increase compared to 2016 emissions (i.e. 15.30 Mt CO₂).

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.

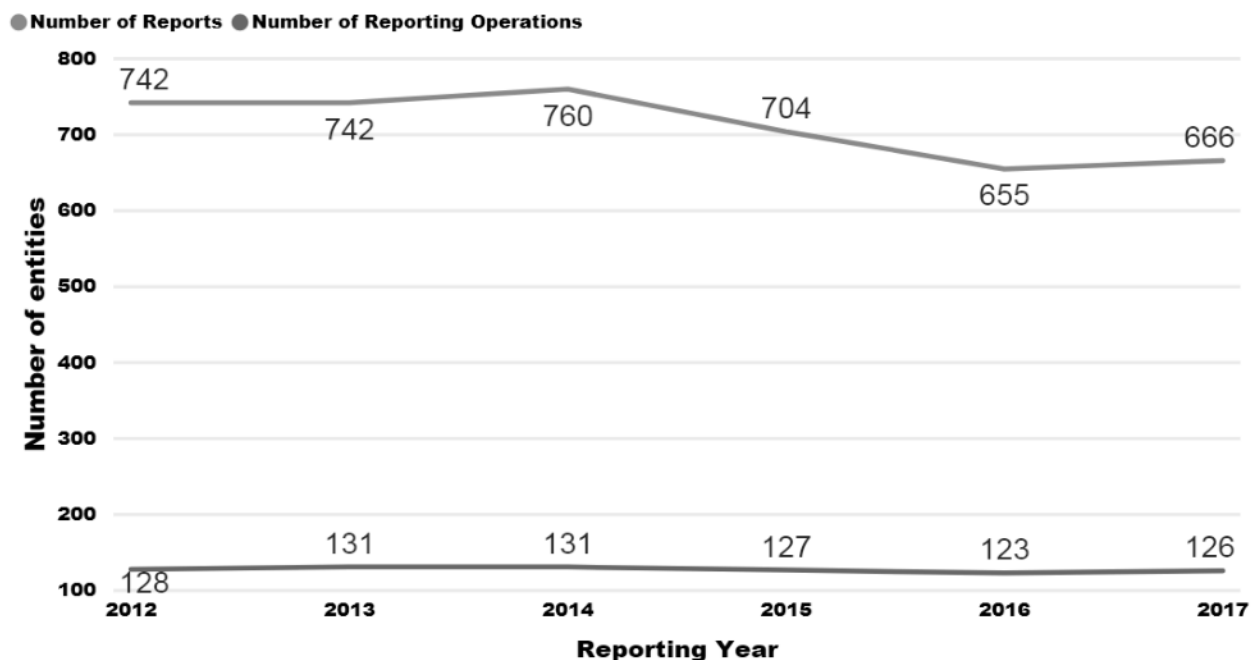


Fig. 1 Number of Reporting Operations and Facilities in BC

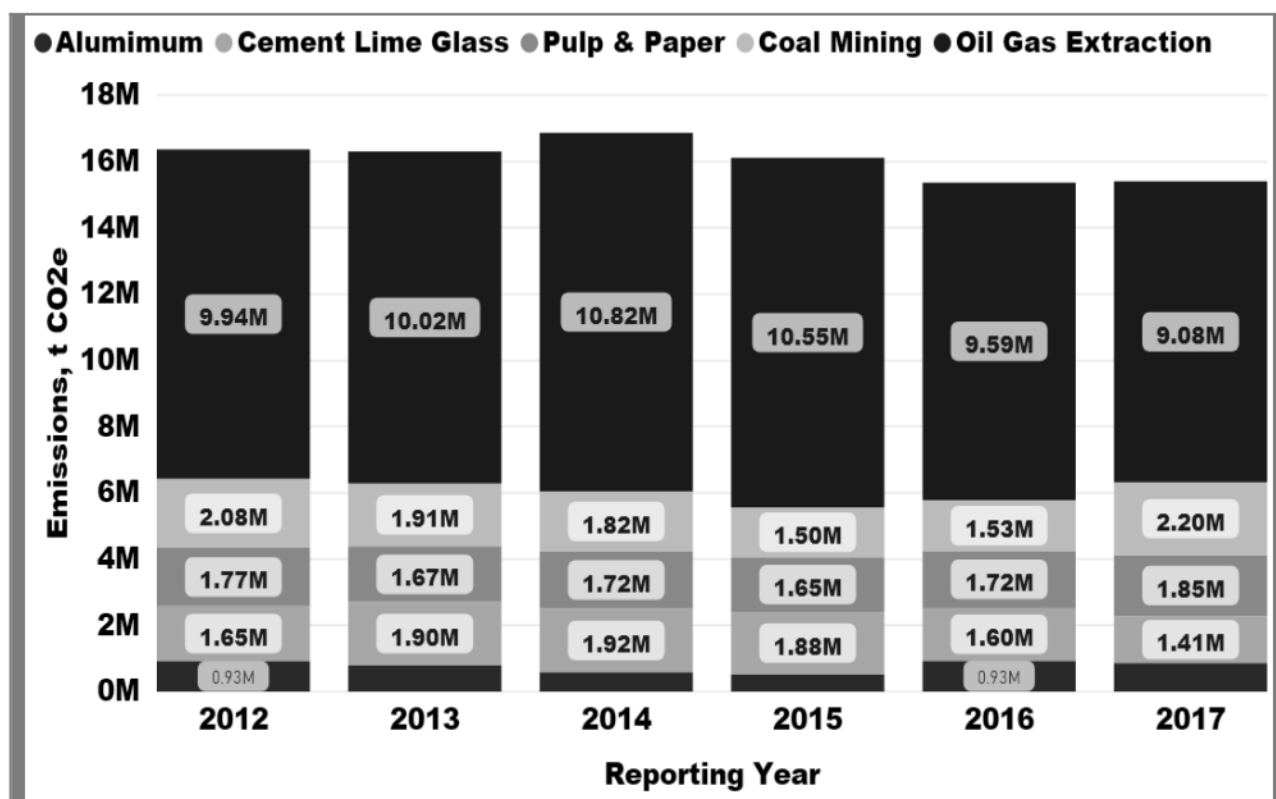
What percentage of the total emissions were covered by the provincial Carbon Tax?

67% of the total emissions (i.e. 12.5 Mt CO₂e) 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(tCO ₂ e)	2016 (tCO ₂ e)	% 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.

**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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.

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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

**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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.

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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

s.13

RECOMMENDATION:**Option 1: Plan for ministerial attendance at COP25**

Option 1 / 

March 25, 2019

DECISION & SIGNATURE**DATE SIGNED**

Honourable George Heyman

Minister of Environment and Climate Change Strategy

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ED	CG	March 5, 2019
Dir./Mgr.	DC	March 4, 2019
Author	EB	March 5, 2019

**MINISTRY OF ENVIRONMENT AND
CLIMATE CHANGE STRATEGY
BULLETS**

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.).

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ENV Approvals		
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DM	N/A	
DMO	KK	3/15/2019
ADM	JH	3/13/2019
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:

- 1) 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 tCO₂e per year);
 - Have submitted an emissions report for 2017 (or intend to in 2018, if new operation); and
 - 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
 - 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

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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 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** before 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 tCO₂e per year).

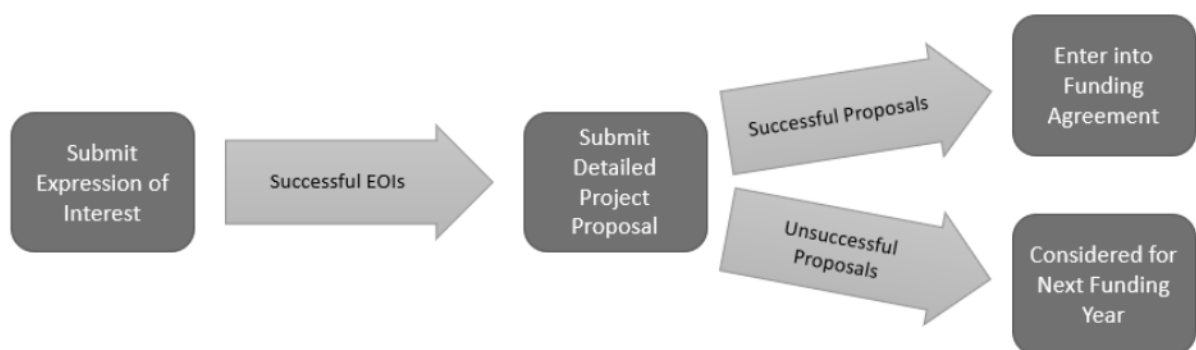
The program includes a CleanBC Industry Fund (Fund) that invests some industrial carbon tax revenue directly into emission reduction projects, helping to make industries cleaner and stronger.

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 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;
- l) **“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 tCO₂e, 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 program website. 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 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.
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:

1. 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 Greenhouse Gas Emission Reporting Regulation (“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 GGERR (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 tCO₂e as defined in GGERR. The Global warming potentials to calculate tCO₂e 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)	<u>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.</u>
b)	The Response must be in English and must not be sent by facsimile, only to the CleanBCIndustryFund@gov.bc.ca 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 Solicitation. 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 Respondent's name and address

Date:

**MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE STRATEGY
CLEANBC INDUSTRY 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 <https://www2.gov.bc.ca/gov/content/environment/climate-change/industry/cleanbc-program-for-industry/cleanbc-industry-fund> It is the Respondent's sole responsibility to check for amendments and additional information.*]

The enclosed Response is submitted in response to the above-referenced Expression of Interest.

We have carefully read and examined the Expression of Interest and have conducted such other investigations as were prudent and reasonable in preparing the Response. We are authorized to submit this Response on behalf of the Respondent.

Yours truly,

Signature

Name: _____

Title: _____

Telephone Number: _____

e-mail address: _____

Legal name of 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			
PRIMARY CONTACT			
<i>The primary contact should be the contact to whom communications regarding the EOI package will be addressed, and this person should be knowledgeable regarding details of the proposed project.</i>			
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.			
<i>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.</i>			
[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).	<input type="checkbox"/> yes <input type="checkbox"/> no
The Respondent hereby certifies to the matters set out in section 4.1 (2) of the EOI. ¹	<input type="checkbox"/> yes <input type="checkbox"/> no
The Respondent hereby certifies has paid carbon tax in relation to fuel consumed by a Primary Reporting Operation.	<input type="checkbox"/> yes <input type="checkbox"/> 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.	<input type="checkbox"/> yes <input type="checkbox"/> 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.	<input type="checkbox"/> yes <input type="checkbox"/> no

If yes to the previous question, please describe how the project exceeds provincial or federal requirements.

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.	<input type="checkbox"/> yes <input type="checkbox"/> 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 commercial deployment, as defined above.

¹ 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

PROJECT LOCATION

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 **general** 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 **new** equipment/technology to be installed (please limit your response to **50 words or fewer**)

ESTIMATE OF PROJECT START DATE AND COST

Estimated Construction Start 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)	\$
<p>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 100 words or fewer)</p>	
<div></div>	
ESTIMATED GHG EMISSIONS REDUCTIONS	
Estimated <u>Annual</u> GHG emissions reductions from the project: (tonnes of CO ₂ e)	
Number of years the project will reduce GHG emissions:	
<p>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 200 words or fewer).</p>	
<div></div>	

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 anonymously and will not be included in the assessment of the application.

Approximately how many hours were spent completing this Expression of Interest and additional project information?

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:

*Jim Standen, ADM
BC Parks and COS
Division
250-387-1288*

Alternate Contact:

*John Trehwitt, Director
Kootenay Okanagan
BC Parks
250-490-8249*

Prepared by:

*Ken Morrison, Senior Advisor
Provincial Services Branch
BC Parks
778-698-4264*

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



**Province of
British Columbia
Legislative Assembly**

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

☐ Mr. Aspinall ☐ Mr. Aspinall ☐ DM Aspinall ☐ Mr. Aspinall
☐ Send Interim ☐ Redirect to
☐ cc: CLIFF

**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 Simpcw 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, co-management, 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:

*Jim Standen, ADM
BC Parks and COS
Division
250-387-1288*

Alternate Contact:

*Volker Michelfelder
BC Parks/Thompson
Cariboo
604-790-1936*

Prepared by:

*Chris Nowotny
BC Parks/Thompson Cariboo
250-398-4888*

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