COO ARBIOS BIOTECH

CHUNTOH GHUNA PRINCE GEORGE AIR DISCHARGE PERMIT OVERVIEW Q2 2023

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UNCEDED TERRITORY OF THE LHEIDLI T'ENNEH FIRST NATION

The Arbios Chuntoh Ghuna ("Chan-toh Hannah") facility in Prince George is situated on the **traditional and unceded territory** of the Lheidli T'enneh First Nation .

T'enneh literally means "The People". They are a sub-group of the "Dakelh" people whose traditional territory includes the city of Prince George, British Columbia. The name "Lheidli" means "The People from the Confluence of the River" in the Carrier language, referring to how the **Nechako River enters the Fraser River at Prince George.**

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Hello

HADIH!



PRESENTING TODAY



TESSA GILL EXTERNAL RELATIONS LEAD, ARBIOS BIOTECH



IAN ROSE GENERAL MANAGER, OPERATIONS, ARBIOS BIOTECH



FRANCIS RIES ENVIRONMENTAL TEAM LEADER, WSP IN CANADA



BRYAN MCEWEN AIR QUALITY METEOROLOGIST AND PRACTICE LEADER, ATMOSPHERIC SCIENCES, AUSENCO



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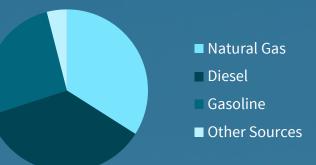


BACKGROUND CHUNTOH GHUNA PRINCE GEORGE



WE NEED TO REDUCE OUR RELIANCE ON FOSSIL FUELS

ARBIOS CAN PLAY AN IMPORTANT ROLE IN MOVING TO A LOWER CARBON FUTURE BC 2020 Emissions by Energy Source for Transportation, Buildings and Industry



"Fossil fuel production and consumption accounts for approximately 80% of B.C. emissions" - Clean BC Roadmap to 2030



LOWER CARBON FUTURE

The world needs to move to a lower carbon future - quickly



SUSTAINABLE AND RENEWABLE ENERGY SOURCES

All sustainable sources of energy need to be evaluated



COMPETITION FOR LIMITED LAND BASE

Solutions to focus on residues and post-consumer waste



HIGH VALUE BIO-OILS FROM FORESTRY RESIDUES

Bio-oil from wood biomass is a great example of expanding the opportunities to use the other 50% of the log





● ● Licella[™]



WE ARE ARBIOS

Arbios Biotech is a joint venture between

Canfor, a global leader in the manufacturing of high-value lowcarbon forest products, and

Licella, global leaders in hydrothermal liquefaction technology.

For over 15 years, Licella has been developing their hydrothermal liquefaction technology, **Cat-HTR™**

Arbor – tree Bios – life Arbios provides a circular economy solution for recovered resources



DEMONSTRATING FIRST OF A KIND TECHNOLOGY IN PRINCE GEORGE TO REDUCE GLOBAL CARBON EMISSIONS

Cat-HTR[™] is the world's most advanced hydrothermal liquefaction (HTL) technology - an innovation that uses water under high pressure and temperature to transform waste biomass into a high-quality, sustainable bio-oil; a direct substitute for fossil crude.

The commercial-ready Cat-HTR[™] technology has been developed over 15 years. The first Cat-HTR[™] Pilot Plant was commissioned in 2007, with three successful reactor scale ups since.







ARBIOS IS COMMITTED TO A CIRCULAR SUSTAINABLE BIO-ECONOMY

PARTNERSHIP WITH THE LHEIDLI T'ENNEH FIRST NATION

Working in partnership, with formal agreement to work together

Facility named by Lheidli T'enneh elders - Chuntoh Ghuna means "the forest lives"

Committed to protecting the values of the Lheidli T'enneh

SUSTAINABLE BIOFUELS FROM RENEWABLE RESIDUES

Economic diversification and creation of high value, bio-fuels with a low carbon footprint

Significant opportunity to reduce reliance on fossil fuels





PROXIMITY DOCUMENTATION DEPENDENT OF DEPENDENT DEPENDENT OF DEPENDENT DEPENDENT OF DEPENDENT DEP

ACCESS TO BIOMASS

Availability of forest residues where we can derive greater value from the biomass. Arbios has already secured initial small volume supply for this facility.

EXISTING INDUSTRIAL SITE

Located adjacent Canfor Pulp's Intercon Pulp Mill site. Benefits from the efficiencies of utility infrastructure on a brownfield site.

STRONG SUPPORT AND EXPERIENCE

BC's carbon policies provide strong incentives tolocate such developments in the province.Canfor's experience in forest products and Licella'sleadership in bio-innovation are the perfectcombination for a successful renewables solution.



FACILITY OVERVIEW CHUNTOH GHUNA PRINCE GEORGE



ARBIOS FACILITIES ARE SMALL AND MODULAR

LOW CARBON INTENSITY

Designed to be close to feedstocks to lower the carbon footprint of gathering the biomass

COMMERCIAL SCALE

Line 1 Chuntoh Ghuna Prince George will demonstrate the technology at a commercial scale

MODEST SIZE

1st line with capacity of 50,000 BBLs/yr Applying for permit of 100,000 BBLs/yr

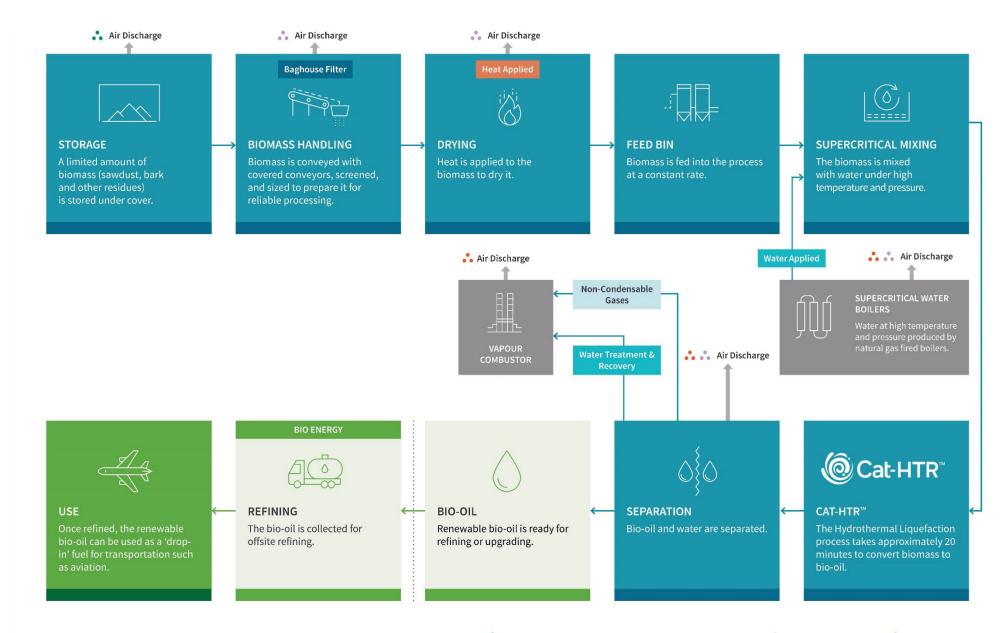
PHASED APPROACH

Allows for improvements in carbon intensity and to integrate learnings into expansion





Biomass residues, such as biomass from the forestry industry, are transformed into a bio-oil, ready to be upgraded into a 'drop-in' renewable fuel with a lower carbon footprint for industries such as aviation, trucking, and marine transportation.



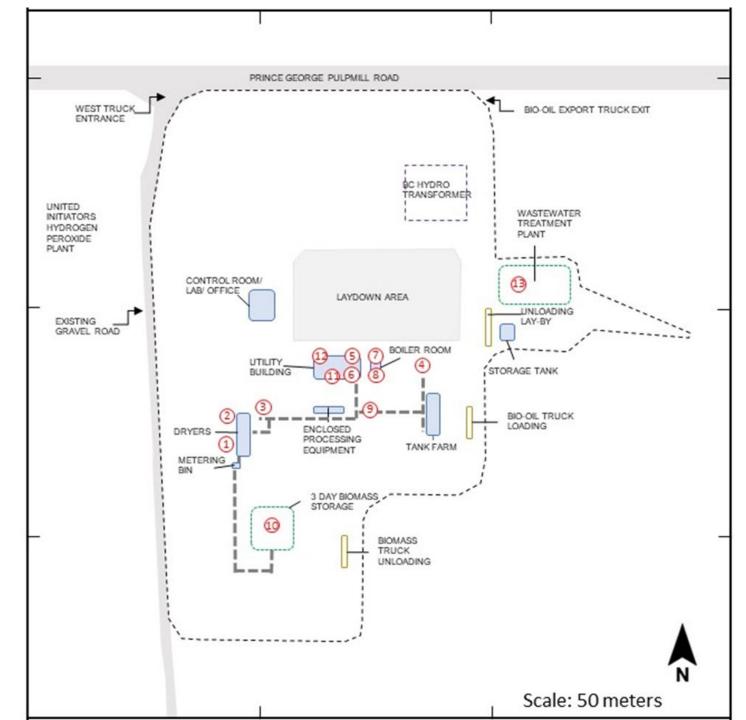
THE FACILITY IS LOCATED IN AN EXISTING INDUSTRIAL AREA





ARBIOS IS APPLYING FOR AN AIR DISCHARGE PERMIT

- An **authorization to discharge waste** under the Environmental Management Act (British Columbia).
- Reviews will be conducted by the Ministry of Environment & Climate Change Strategy, Environmental Protection Division (ENV).
- Arbios submitted a Preliminary Application Form and Discharge Factor Form for a New Permit on March 2, 2022, to initiate the permitting process.
- Since submission, we've made improvements, such as the addition of a baghouse to control dust emissions, and other mitigations as shown in the Best Achievable Technology (BAT) report.
- As a result, some of the air emission discharge characteristics have changed since the preliminary application, requiring an updated Discharge Factor Form



FACILITY LAYOUT AND EMISSION SOURCES

Discharge Locations:

- 1. BiomassDryer 1 (53.9252N / 122.7058W)
- BiomassDryer 2 (53.9253N / 122.7057W)
- 3. Baghouse air collection system (53.9254N / 122.7055W)
- Vapor Combustor (53.9254N / 122.7038W)
- SCW Boiler 1 (53.9255N / 122.7045W)
- 6. SCW Boiler 2 (53.9255N / 122.7044W)
- 7. SCW Boiler 3 (53.9255N / 122.7042W)
- 8. SCW Boiler 4 (53.9254N / 122.7042W)
- 9. Vacuum Column Heater (53.9252N / 122.7042W)

Miscellaneous and Non-Point Sources:

- 10. Main Biomass Storage (122.7056N / 53.9247W)
- 11. Nitrogen Generator Vent (122.7046N / 53.9254W)
- Boiler Blowdowns and Vents (122.7047N / 53.9256W)
- 13. AerationTank(122.7026N/53.9257W)



BEST ACHIEVEABLE TECHNOLOGY REPORT OVERVIEW



BAT ASSESSMENT CONDUCTED BY A 3RD PARTY QUALIFIED PROFESSIONAL

As defined by the BC MoECCS, "A best achievable technology is a technology that has been evaluated for its feasibility, reliability, control effectiveness, and cost-effectiveness and is demonstrated to be best-suited to meet waste discharge standards for the protection of the environment and human health."

Conducted by Reputable 3rd Party

Arbios engaged WSP to perform the BAT assessment



A Requirement for the Air Discharge Permit

In compliance with the Best Achievable Technology Assessment to Inform Waste Discharge Standards



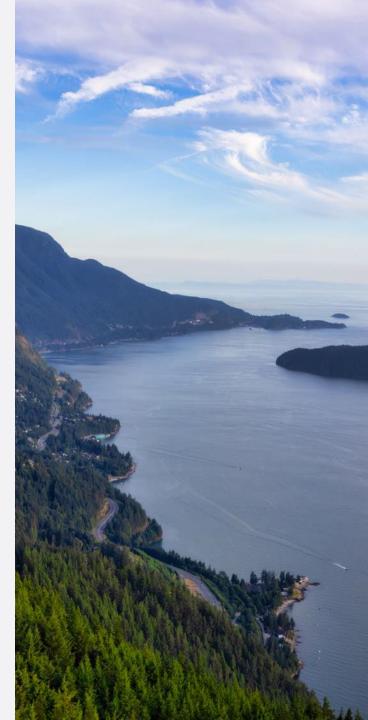
Detailed Review of Process Equipment and Pollution Controls

WSP reviewed the facility design to determine reliable, effective, feasible controls



Industry Comparisons

Similar facilities were reviewed for standard and best practices.





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CHUNTOH GHUNA FACILITY IS USING BEST ACHIEVABLE TECHNOLOGY

Measures that have been taken to minimize emissions at the facility include:



DUST COLLECTION

Selection of a low temperature belt dryer for biomass

Dust collection systems for dry wood residue handling systems utilizing a bag filter dust collector



Recycled process heat used to power the biomass dryer



Thermal oxidizer to treat process emissions

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COVERED BIOMASS

Biomass pile is mostly under cover and with a limited storage size



Covered conveyers and drop chutes where practicable





BEST ACHIEVABLE TECHNOLOGY ASSESSMENT OBSERVATIONS - A DEEPER DIVE

FUGITIVE DUST



Managed via Fugitive Dust Management Plan which includes a range of monitoring activities, triggers and actions to manage dust emissions.

BIOMASS HANDLING DUST

BAT for dry biomass particulate emissions control is a well operated and maintained bag filter dust collector achieving particulate emissions performance of 20 mg/m3 (or better).



BIOMASS DRYERS

BAT for particulate emission control from biomass drying is a well operated and maintained low temperature belt dryer.



COMBINED SUPERCRITICAL WATER BOILERS

Due to technical constraints and prohibitive cost of alternative and treatment solutions, BAT for control of emissions from the supercritical boiler is the use of the manufacturer's standard burners with good combustion practices.



BATA OBSERVATIONS CONTINUED



VACUUM COLUMN HEATER

Based on standard industry practice and air permitting practice in BC, BAT for control of emissions from the Vacuum Column Heater: use manufacturer's standard low NOx burner together with good combustion practices.



VAPOR COMBUSTOR

Informed by the BCOGC Flaring and Venting Guideline, BAT for control of emissions from the Vapor Combustor is the use of an enclosed combustor that achieves greater than 99% destruction of waste gases.



Managed via preventative maintenance program that includes leak detection and repair of equipment that contains gases or high-pressure liquids.



WASTEWATER TREATMENT EMISSIONS

Based on standard industry practice, BAT for control of emissions from the wastewater treatment plant is the use of an Anerobic Wastewater Reactor with all off-gases treated in the Vapor Combustor.



AIR QUALITY TECHNICAL REPORT





AIR DISPERSION MODELLING IS USED TO PREDICT CHANGES TO AIRSHED

CONDUCTED BY INDEPENDENT THIRD-PARTY QUALIFIED PROFESSIONAL, AUSENCO

Modelling plan submitted to ENV before modelling commenced

Model uses a baseline for a specified period 2016 for PM $_{10}$ and PM $_{2.5}$ 2018, 2019 and 2020 for NO $_2$ and SO $_2$

Model then adds Chuntoh Ghuna facility in operation

Full Air Quality Technical Report can be found online at www.arbiosbiotech.com



THE AIR DISPERSION MODEL TAKES A **CAUTIOUS AND PRUDENT APPROACH**

PRINCE GEORGE IS CONSIDERED AS HAVING A SENSITIVE AIRSHED PRIMARILY DUE TO A HISTORY OF $\rm PM_{2.5}$ EXCEEDING THE BC AMBIENT AIR QUALITY OBJECTIVES

THE FOLLOWING CAUTIOUS CHOICES PRODUCE RESULTS THAT DELIBERATELY SHOW THE HIGHEST POSSIBLE IMPACTS

Inputs are based on **maximum flows and concentrations** as shown in the Permit application. These are "never to exceed" values and not representative of normal daily operations.

The **model's estimations for NO₂ ambient levels are significantly higher than actual** due to the procedure for estimating NOx conversion.

Estimates of particulate emissions from the green wood (i.e. pre-dryer) handling system are based on emission factors for dry wood handling systems. At 45 to 55% moisture content and biomass in a size range of 2.5 to 10cm, **Arbios' biomass will be far less prone to dust emissions than dry wood fibre**.

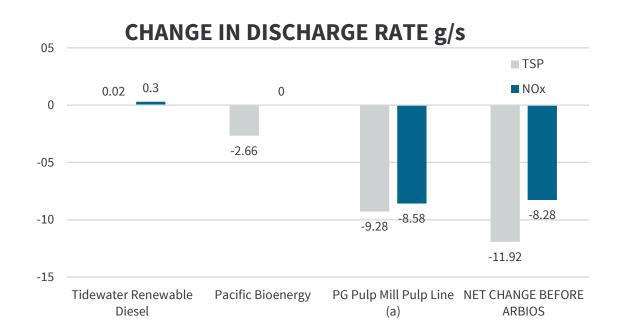
There have been some **changes in Industrial activity** in Prince George that would result in **significant reductions in overall TSP, PM**₁₀, **PM**_{2.5} **and NOx.**



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THE INDUSTRIAL IMPACT ON THE AIRSHED IN PRINCE GEORGE IS CHANGING



(a) Based on data input for the most recent Micro Emissions Inventory (Nilson, B., Jackson, P., Ainslie, B., and Roth, G. 2020)

Since the emissions inventory was last updated, three key changes in industrial sources have or will occur before the Chuntoh Ghuna facility is commissioned:

- the closure of the Pacific Bioenergy Pellet facility,
- the future addition of the Tidewater Renewables facility, and
- the closure of the pulp line at PG Pulp Mill.

These three changes, even when taking in to account new sources at the Chuntoh Ghuna facility, **represent** significant reductions in PM_{2.5} and NO₂ in the Prince George airshed.

The **TSP reductions are 10 times the Arbios additions** and **NOx reductions are 2.6 times more than the Arbios additions.**

These reductions are not accounted for in the dispersion modelling for this facility.



SOURCES OF EMISSIONS (NORMAL OPERATIONS)

THE MAXIMUM DISCHARGE RATES WERE BASED ON EQUIPMENT MANUFACTURER SPECIFICATIONS OR BY TAKING MONITORED DATA FROM COMPARABLE INSTALLATIONS, AND A MARGIN OF SAFETY WAS ADDED TO REPRESENT THE UPPER END OF EACH DISCHARGE SOURCE DURING NORMAL OPERATIONS.

Source	Flow Rate (m³/min)	Discharge Concentration (mg/m ³)			Maximum Discharge Rate (g/s)				
Source		TSP	NO _X	SO ₂	TSP	PM ₁₀	PM _{2.5}	NO _X	SO ₂
Biomass Dryer 1	1,800	15	-	-	0.45	0.45 ^(a)	0.41 ^(a)	-	-
Biomass Dryer 2	1,800	15	-	-	0.45	0.45 ^(a)	0.41 ^(a)	-	-
Biomass Feedstock Handling Air Collection System (Baghouse)	460	20	-	-	0.15	0.15 ^(b)	0.11 ^(b)	-	-
Vapour Combustor	405	0.0	83.3	22.2	-	-	-	0.56	0.15
Supercritical Water Boiler 1	53.6	7.3	472.7	0.7	0.007	0.007 ^(c)	0.007 ^(c)	0.42	6×10 ⁻⁴
Supercritical Water Boiler 2	53.6	7.3	472.7	0.7	0.007	0.007 ^(c)	0.007 ^(c)	0.42	6×10 ⁻⁴
Supercritical Water Boiler 3	53.6	7.3	472.7	0.7	0.007	0.007 ^(c)	0.007 ^(c)	0.42	6×10 ⁻⁴
Supercritical Water Boiler 4	53.6	7.3	472.7	0.7	0.007	0.007 ^(c)	0.007 ^(c)	0.42	6×10 ⁻⁴
Vacuum Column Heater	9.2	7.1	71.4	0.4	0.001	0.001 ^(c)	0.001 ^(c)	0.01	6×10 ⁻⁵
Total Authorized Discharges					1.08	1.08	0.95	2.3	0.15

These requested permit limits were used in the model on an operational basis of 24 hours per day, 365 days a year.

Notes: Flow rates and discharge concentrations are expressed at 293.15 K, 103.15 kPa, 0% moisture, actual oxygen contents.

(a) PM₁₀ and PM_{2.5} emissions are estimated using particle size fractions from Gitxsan Development Corporation 2019.

(b) PM₁₀ and PM_{2.5} emissions are estimated using particle size fractions from Pinnacle Renewable Energy Inc. 2014.

(c) All particulate matter emissions from natural gas combustion are assumed to be PM_{2.5}.





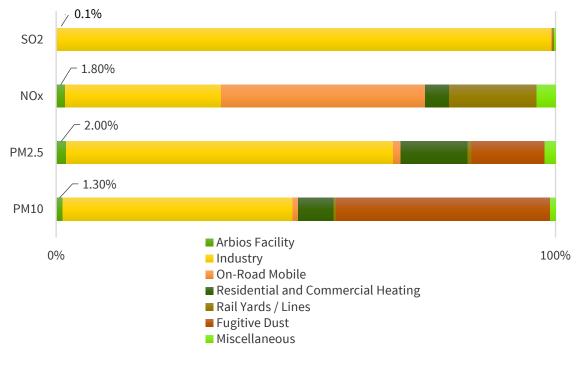
The Chuntoh Ghuna facility dispersion model is based upon a community model that was, in turn, based upon an inventory of all sources in the airshed.

Of that inventory, the Chuntoh Ghuna facility Permit limits would account for 2% of all PM_{2.5} emissions and 1.8% of all NOx emissions.

Nilson, B., Jackson, P., Ainslie, B., and Roth, G. 2020 Source:

FACILITY CONTRIBUTION TO REGIONAL EMISSIONS

PERCENT CONTRIBUTION





MODELLING RESULTS

THE MODELLING SHOWS THAT MAXIMUM CUMULATIVE CONCENTRATIONS OF PM AND NO₂ MAY EXCEED RELEVANT AAQOS WHEN COMBINED WITH THE **HIGH BACKGROUND CONCENTRATIONS IN THE PRINCE GEORGE REGION**

Uncertainty with characterizing emissions from fugitive discharges and incorporating them in dispersion modelling.

Maximum modelled concentrations of particulate matter may exceed relevant AAQOs. However, modelled exceedances of the AAQOs are largely related to high background concentrations.

Background 24-hour PM₁₀ and PM_{2.5} concentrations, based on the 98th percentile of measured data from the Plaza 400 station, are already at 98% and 84% of the relevant AAQO, respectively.

PM concentrations due to the Facility alone are very low throughout the City of Prince George, exceeding the AAQOs only within 200 m of the Facility. Area of modelled exceedances encompasses existing industrial facilities where public exposure would be minimal. Air quality objectives typically do not apply within industrial facilities, which are subject to workplace health and safety regulations.

Notes: MPOI = maximum point of impingement, AAQO = ambient air quality objective. Values in bold font exceed the relevant air quality objective.

- Values for NOX are equivalent to NO2 following the total conversion method.
- (a) Based on 98th percentile of daily average, over one year.

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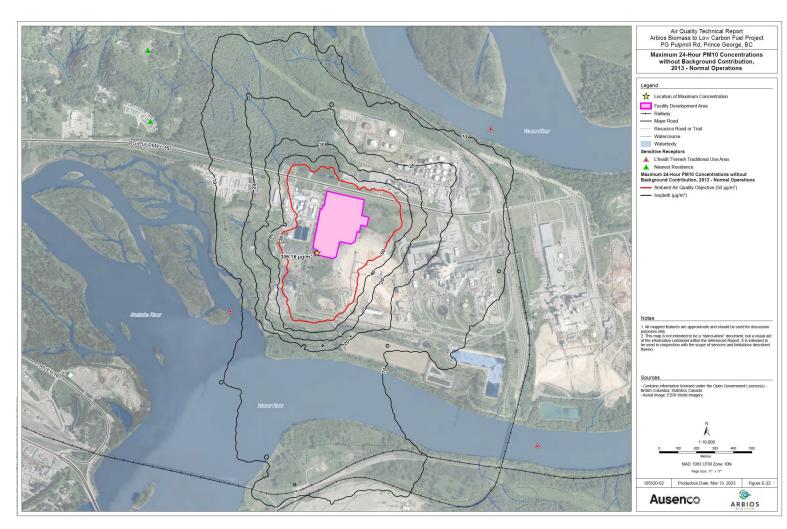
- (b) Based on annual 98th percentile of daily 1-hour maximum, averaged over three years.
- (c) Based on annual 99th percentile of daily 1-hour maximum, averaged over three years.



Contaminant	Averaging Period	MPOI	Senior Care Facility	School	Hospital	Nearest Residence	Lheidli T'enneh Traditional Use Area	AAQO
			Wi	thout Backgrou	nd	i		
TSP	24-hour	377.5	3.6	7.7	3.1	7.8	9.5	120
	Annual	58.4	0.3	0.6	0.2	0.9	1.2	60
PM ₁₀	24-hour	307.8	3.6	7.7	3.1	7.7	9.2	50
PM _{2.5}	24-hour ^(a)	128.1	1.2	2.7	0.8	3.1	4.0	25
	Annual	38.6	0.2	0.5	0.1	0.6	0.8	8
NO _x	1-hour ^(b)	148.3	17.0	43.5	15.2	39.5	40.3	-
	Annual	12.5	0.2	1.1	0.2	0.4	0.6	-
NO ₂	1-hour ^(b)	91.0	15.3	39.2	13.6	35.5	36.3	113
	Annual	10.7	0.2	0.9	0.2	0.4	0.6	32
SO ₂	1-hour ^(c)	7.3	0.9	1.8	0.6	1.1	1.5	183
	Annual	0.2	0.005	0.02	0.004	0.009	0.01	13
			V	Vith Backgroun	d	-		
TSP .	24-hour	446.8	72.9	77.0	72.4	77.1	78.8	120
	Annual	86.1	28.0	28.3	27.9	28.6	29.0	60
PM ₁₀	24-hour	356.6	52.4	56.5	51.9	56.5	58.0	50
PM _{2.5}	24-hour ^(a)	149.1	22.2	23.7	21.8	24.1	25.0	25
	Annual	47.0	8.6	8.9	8.5	9.0	9.2	8
NO _X	1-hour ^(b)	236.6	105.3	131.8	103.5	127.8	128.6	-
	Annual	30.4	18.1	18.9	18.1	18.3	18.5	-
NO ₂ – default background	1-hour ^(b)	179.3	103.6	127.5	101.9	123.8	124.6	113
NO ₂ – refined background	1-hour ^(b)	163.0	95.2	110.0	95.1	99.5	95.4	113
NO ₂	Annual	28.6	18.1	18.8	18.1	18.3	18.5	32
SO ₂	1-hour ^(c)	110.1	103.7	104.6	103.4	103.9	104.3	183
	Annual	3.3	3.1	3.1	3.1	3.1	3.1	13



EXAMPLE PM₁₀ CONCENTRATIONS 24HR MAXIMUM, WITHOUT BACKGROUND, NORMAL OPERATIONS



This image shows the maximum modelled 24hr period concentrations of PM₁₀ due to facility emissions in 2013. It shows the maximum impact that could occur in any direction, regardless of timing.

Modelled cumulative (facility + background) concentrations may exceed ambient air quality objectives primarily due to high background concentrations.

Maximum modelled concentrations from facility emissions exceed objectives within 200 m of facility

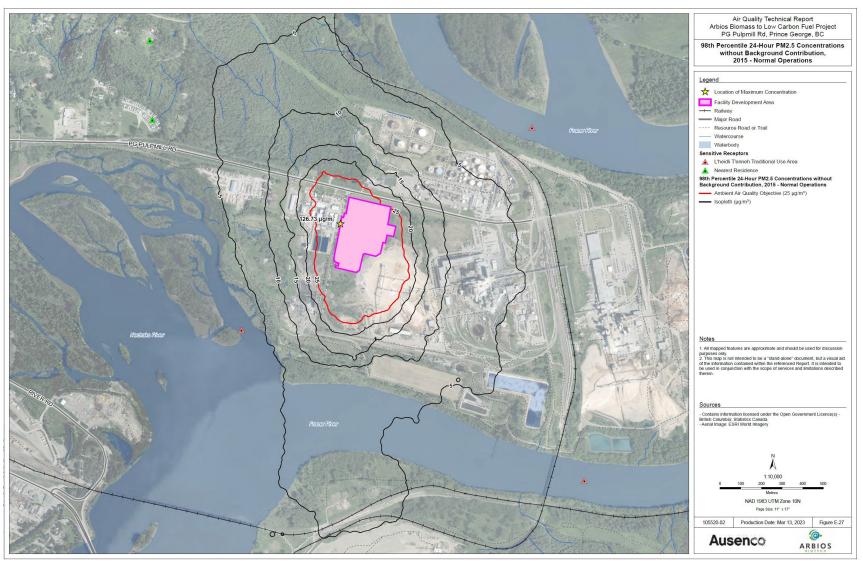
- Ambient air quality objectives do not typically apply to industrial facilities
- Public exposure is minimal

Facility emissions are modelled against a background which is based on the 8th "worst" day over the year 3 years during which the baseline is established (49 µg/m3).

- The 24-hour Ambient Air Quality Objective is 50 μg/m3
- Modelled cumulative (facility + background) concentrations may exceed the ambient air quality objective primarily due to high background concentrations.
- Facility contributions at sensitive receptors are low relative to background air quality.



EXAMPLE PM_{2.5} CONCENTRATIONS 98TH %ILE, 24 HR, WITHOUT BACKGROUND, NORMAL OPERATIONS



This image shows the maximum modelled 24hr period concentrations of PM_{2.5} due to the facility emissions in 2015. It shows the maximum impact that could occur in any direction, regardless of timing.

Similar to PM₁₀, maximum modelled concentrations from facility emissions exceed the objective within 200 m of facility.

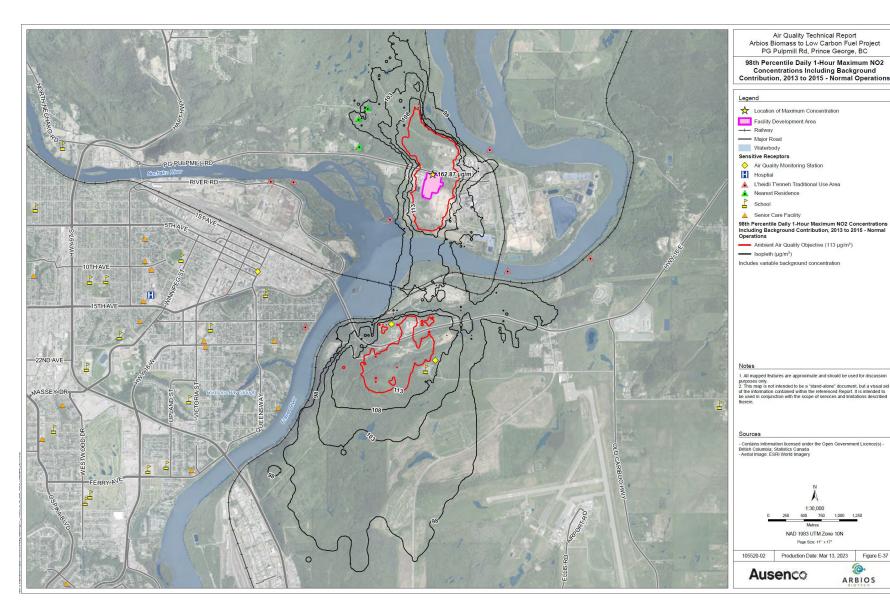
Facility emissions are modelled against a background which is based on the 8th "worst" day over the year 3 years during which the baseline is established ($21 \mu g/m3$).

- The 24-hour Ambient Air Quality Objective is $25 \ \mu g/m3$
- Modelled cumulative (facility + background) concentrations may exceed ambient air quality objectives primarily due to high background concentrations.
- Facility contributions at sensitive receptors are low relative to background air quality.
- No cumulative exceedances at sensitive receptor locations.

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EXAMPLE MAX NO₂ CONCENTRATIONS 1 HR MAXIMUM, INCLUDING BACKGROUND NORMAL OPERATIONS



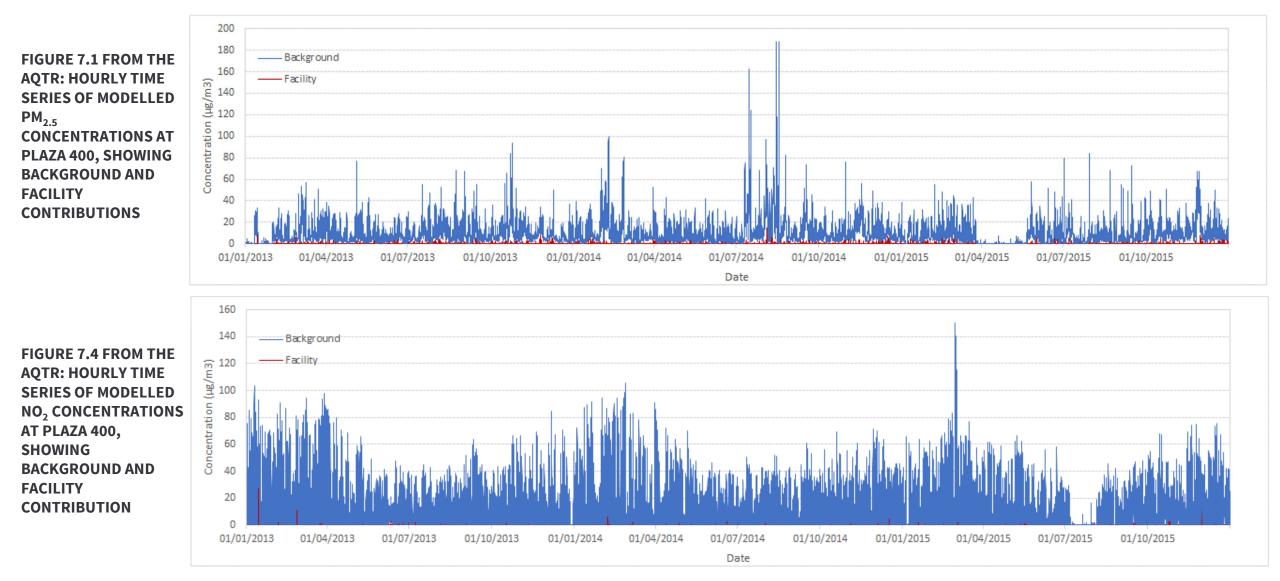
This image shows the maximum modelled NO2 concentration during a 1hour period, with cumulative (facility + background contributions)

- No exceedances in any locations due to facility contributions
- Cumulative (facility + background) concentrations may exceed the 1hour objective within 3 km of the facility.
- No exceedances at sensitive receptors
- Areas of cumulative modelled exceedances include area around the facility as well as an area on the hillside near the Correctional Facility
- Possible exceedances of 1-hour objective predicted only during periods of temperature inversion, less than 3% of the time.

Modelled cumulative concentrations are less than the annual objective at all locations.



ARBIOS CONTRIBUTIONS TO $PM_{2.5}$ AND NO_2 AT PLAZA 400



WITH ADHERENCE TO AN ENVIRONMENTAL MANAGEMENT PLAN **THE FACILITY IS NOT EXPECTED TO ADVERSELY AFFECT AIR QUALITY IN PRINCE GEORGE.**

For PM (all size fractions), maximum potential discharges from the Chuntoh Ghuna facility may result in exceedances of the AAQO only within 200 m of the Facility

For NO₂, exceedances of the 1-hour AAQO are found in an area within 3 km of the Facility. There are few public receptors within this area of potential exceedance. Exceedances are expected to be very infrequent.

The calculation for the conversion of NO to NO_2 is expected to result in substantially over-estimated NO_2 concentrations in the model results.

Closure of the PG Pulp Mill pulp line will result in a reduction of over 8g/s of NO_X; Arbios total permitted maximum emissions will be 2.3g/s.

Maximum modelled concentrations for SO₂ are expected to remain well below the AAQOs.

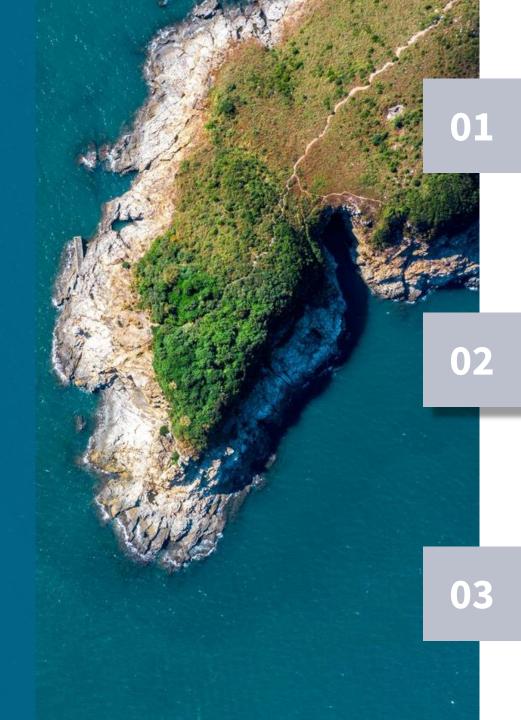
MODELLED IMPACTS ARE ASSOCIATED WITH THE CHUNTOH GHUNA FACILITY EMISSION RATES AT THEIR MAXIMUM PERMITTED LEVELS THROUGHOUT THE YEAR

"In reality, the average emission rates during facility operations are expected to be considerably lower"





NEXT STEPS



Public Notification Period

The BC Public Notification Regulation requires a 30 day notification period; anyone is encouraged to comment on the Air Discharge Permit

Finalize Submission

After the 30 day notification period, Arbios will submit a Consultation Report, along with a Technical Assessment Report, to ENV.

Air Permit Review

After receiving the TAR from Arbios, ENV will review the submission and, when complete, will begin the process of drafting an Air Permit. In the meantime, Arbios will prepare for the construction of the Chuntoh Ghuna facility.



ARBIOS BIOTECH

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THANK YOU

INFO@ARBIOSBIOTECH.COM WWW.ARBIOSBIOTECH.COM