Woodfibre LNG Air Quality Monitoring Station Report for April 2025

June 17, 2025

Prepared for: Woodfibre LNG General Partner Inc.

Prepared by: Stantec Consulting Ltd.

Project/File: 123222160



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Executive Summary

This report provides a summary of the ambient air quality monitoring data for April 2025 that has been collected in fulfilment of the requirements established in the Floatel Air Quality Monitoring and Mitigation Plan (Rev 6, July 5, 2024) (Woodfibre LNG 2024). Table E.1 below presents the monthly averages, ranges, and maximum values for key air contaminant concentrations measured during April 2025, along with additional information on air quality exceedances and complaints received during this period. This report provides an overview of ambient air quality conditions and regulatory compliance actions taken during April 2025.

Table E.1 April 2025 Air Quality Monitoring Station Summary

Air Contaminant		Units	Monthly Average	Monthly Range (Min - Max)		
PM _{2.5} (24-hour ave	rage) ^a	μg/m³	6.8	3.5 - 13.5		
PM ₁₀ (24-hour aver	rage)	μg/m³	24.5	8.4 - 115.2		
TSP (24-hour avera	age)	μg/m³	50.1 10.5 - 264.6			
NO ₂ (24-hour avera	age)	ppb	8.5	4.9 - 16.4		
NO ₂ (1-hour averag	ge)	ppb	8.5	0.0 - 38.9		
SO ₂	Apr 1 – May 2, 2025	ppb	0.2			
VOC as Hexane			<0.7 b			
Number of Air Quality Exceedances Recorded				3		
Number of Compla	ints Received			None		

Notes:



^a Monthly average concentration and range are based on valid measurements collected between April 1 and April 16 and then between April 22 and April 30, 2025.

^b Concentrations below the Reported Detection Limit (RDL) are indicated with a '<' symbol.

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Acronyms / Abbreviations

AGAT AGAT Laboratories

AQMS Air Quality Monitoring Station

AQO British Columbia Air Quality Objective(s)

BC British Columbia

BC ENV British Columbia Ministry of Environment and Climate Change Strategy

(2017 - 2024)

BC ENVP British Columbia Ministry of Environment and Parks (2024–Present)

CAAQS Canadian Ambient Air Quality Standard(s)

CCME Canadian Council of Ministers of the Environment

EAO British Columbia Environmental Assessment Office

Floatel The marine-based work camp, associated facilities and mooring

infrastructure dedicated to house approximately 650 Workers during the

Construction and Operations of the Project

FAQMMP Floatel Air Quality Monitoring and Mitigation Plan

FEM Federal Equivalent Method

NO₂ Nitrogen Dioxide
PM Particulate Matter

PM_{2.5} Fine Particulate Matter (less than 2.5 microns (μm) in aerodynamic

diameter)

PM₁₀ Particulate Matter (less than 10 microns (µm) in aerodynamic diameter)

QA/QC Quality Assurance and Quality Control

SO₂ Sulphur Dioxide

TSP Total Suspended Particulate

US EPA United States Environmental Protection Agency

VOC Volatile Organic Compounds

Woodfibre LNG Woodfibre LNG General Partner Inc.



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1 Introduction

Woodfibre LNG General Partner Inc. (Woodfibre LNG) is developing the Woodfibre Liquefied Natural Gas Project (the Project) at the former Woodfibre Pulp Mill site, approximately seven kilometres southwest of Skwxwú7mesh (Squamish), British Columbia (BC). To support onsite ambient air quality monitoring, Stantec Consulting Ltd. (Stantec) prepared the Floatel Air Quality Monitoring and Mitigation Plan (FAQMMP; Rev 6, July 5, 2024) on behalf of Woodfibre LNG (Woodfibre LNG 2024). The FAQMMP was developed to comply with Condition 30 of the Environmental Assessment Office (EAO) Amendment #3 (EAO 2023), which pertains specifically to Floatel air quality monitoring. The monitoring is intended to demonstrate compliance with ambient air quality standards and assists Woodfibre LNG in determining whether mitigation during the Project's construction phase is required. Further details regarding the purpose, duration, and compliance framework are available in the FAQMMP Rev 6 July 5, 2024 (Woodfibre LNG 2024). The air quality monitoring station (AQMS) continuously measures PM_{2.5}, PM₁₀, TSP, and NO₂ concentrations, along with passive sampling and analysis for SO₂ and VOCs. Data processing, quality assurance, and quality control (QA/QC) of the air quality monitoring equipment are performed, and the data presented in this monthly report is based on a Level 0 data validation as described by the British Columbia Field Sampling Manual – Part B (BC ENVP 2020, formerly British Columbia Ministry of Environment & Climate Change Strategy (BC ENV, 2017-2024); now Ministry of Environment & Parks (BC ENVP), 2024-present).

The location of the AQMS (UTM Easting 481,569 m and Northing 5,501,374 m, NAD83 datum, zone 10U) is adjacent to the existing meteorology station (UTM Easting 481,610 m and Northing 5,501,369 m, NAD83 datum, zone 10U) currently in operation at the Woodfibre LNG site as recommended in the FAQMMP. Figure 1.1 provides a map of the Woodfibre LNG site. This April 2025 monthly air quality report provides data on air quality and meteorology conditions monitored at the Woodfibre LNG Project site close to the Floatel. The monitoring and reporting support regulatory compliance. These monthly reports track ambient air quality trends, address potential issues, and help the Project meet project-specific and regulatory requirements.



2 Key Components Assessed

Two key sets of measurements are reported: a) meteorology data, including ambient temperature, wind speed and direction, and total rainfall, and b) ambient concentrations of air contaminants measured at the AQMS.

2.1 Meteorology

Meteorology data supporting the Woodfibre LNG AQMS are acquired from the nearby Woodfibre LNG meteorology station. This meteorology data supports the long-term ambient air quality monitoring program. The meteorology variables measured at the station are listed in Table 2.1.

Table 2.1 Parameters Measured at the Woodfibre LNG Site Meteorology Station

Parameter	Units
Wind Speed	m/s
Wind Direction	Degrees
Air Temperature	°C
Rainfall	mm
Relative Humidity	%
Barometric Pressure	hPa

2.2 Air Contaminants of Interest

The air contaminants being measured are described below according to the type of monitoring.

2.2.1 Continuous Sampling

- Particulate matter with aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5})
- Particulate matter with aerodynamic diameter less than or equal to 10 microns (PM₁₀)
- Total suspended particulate (TSP)
- Nitrogen dioxide (NO₂)

2.2.2 Passive Sampling

- Sulphur dioxide (SO₂)
- Volatile organic compounds (VOCs)



2.3 Air Quality Criteria

The air contaminants monitored at the AQMS, along with their corresponding Canadian Ambient Air Quality Standards (CAAQS) (CCME 2024) and British Columbia Air Quality Objectives (BCAQO) (BC ENVP 2021) regulatory criteria, are presented in Table 2.2 and Table 2.3, respectively.

Table 2.2 Summary of 2020 and 2025 Canadian Ambient Air Quality Standards for the Contaminants of Potential Concern

Substance	Averaging	Concentration ^a						
	Period	(µg/m³) b,c		(ppbv) ^d				
		2020	2025	2020	2025			
Nitrogen Dioxide	1-hour ^e	113	79	60	42			
(NO ₂)	Annual ^f	32	23	17.0	12.0			
Sulphur Dioxide	1-hour ^g	183	170	70	65			
(SO ₂)	Annual ^h	13	10.4	5.0	4.0			
Fine Particulate Matter (PM _{2.5})	24-hour ⁱ	27	j	_	_			
	Annual ^k	8.8	j	_	_			

Notes:

- ^a Canadian Ambient Air Quality Standards (CCME 2024) for 2020 and 2025.
- b μg/m³ is the mass of the substance in micrograms per cubic meter of air.
- ^c Standard conditions of 25°C and 101.325 kPa are used to convert from µg/m³ to ppbv.
- d ppbv is the volume of the substance (parts) per billion volumes of air.
- ^e The 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentration.
- f The average over a single calendar year of all 1-hour average concentrations.
- ⁹ The 3-year average of the annual 99th percentile of the daily maximum 1-hour average concentrations.
- ^h The average over a single calendar year of all 1-hour average concentrations.
- The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations.
- Currently under review by the CCME
- k The 3-year average of the annual average of the daily 24-hour average concentrations.



Table 2.3 British Columbia Ambient Air Quality Objectives

Substance	Averaging Period	Air Quality Objective ^a			
		μg/m³ b,c	ppbv ^d		
Nitrogen Dioxide (NO ₂)	1-hour ^e	113	60		
	Annual ^f	32	17		
Sulphur Dioxide (SO ₂)	1-hour ^g	183	70		
	Annual ^h	13	5		
Fine Particulate Matter (PM _{2.5})	24-hour ⁱ	25	_		
	Annual ^j	8.0	_		
Coarse Particulate Matter (PM ₁₀)	24-hour	50	_		
Total Suspended Particulate (TSP)	24-hour	120	_		
	Annual ^k	60	_		

Notes:

- ^a British Columbia Air Quality Objectives (BC ENVP 2021).
- $^{\text{b}}$ µg/m $^{\text{3}}$ is the mass of the substance in micrograms per cubic meter of air.
- ^c Standard conditions of 25°C and 101.325 kPa are used to convert from μg/m³ to ppbv.
- d ppbv is the volume of the substance (parts) per billion volumes of air.
- ^e Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.
- ^f Achievement based on annual average of 1-hour average concentrations over one year.
- ⁹ Achievement based on annual 99th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.
- ^h Achievement based on annual average of 1-hour concentrations over one year.
- Achievement based on annual 98th percentile of daily average, averaged over one year.
- Achievement based on annual average, averaged over one year.
- ^k Based on geometric mean.



3 Instrument Summary

The AQMS is currently being operated to measure the ambient concentrations of the air contaminants mentioned above. The BAM PM_{2.5} could not collect data from April 17 at 07:00 hours to April 21, 2025, at 10:00 hours due to a sampler filter tape error. Passive sampling of SO₂ and VOCs uses AGAT's Passive Sampler system. The Woodfibre LNG personnel exchange the monthly samples and submit them to AGAT for laboratory analysis.

Table 3.1 Summary of Instrumentation used at the Woodfibre LNG Air Quality Monitoring Station

Parameter	Instrumentation
PM _{2.5} , PM ₁₀ , and TSP	Met One Instruments BAM 1020 Beta Attenuation Mass Monitors
NO ₂	Thermo Fisher Scientific – Model 42i (NO-NO ₂ -NO _x) Analyzer
SO ₂ and total VOCs	AGAT's Passive Sampler system

3.1 Continuous Monitoring of PM and NO₂

Particulate matter (PM_{2.5}, PM₁₀, and TSP) was continuously monitored following the Standard Operating Procedure for the Continuous Measurements of Ambient PM Using a Beta Attenuation Monitor (Reference No: SOP-05a). The NO₂ concentrations were continuously monitored following the Standard Operating Procedure for the Continuous Measurement of Ambient NOx (Reference No: SOP-03) in Part B1 of the British Columbia Field Sampling Manual (BC ENVP 2020).

3.2 Passive Monitoring of SO₂ and VOC

The SO₂ and VOC ambient concentrations were monitored following the Standard Operating Procedure for the Passive/Diffusive Method of Air Sample Collection (Reference No: SOP-07) in Part B1 of the British Columbia Field Sampling Manual (BC ENVP 2020).

4 Ambient Air Quality Monitoring Results

The measured data presented for passive and continuous monitoring includes a) ambient air quality data collected at the AQMS (Appendix A: Figure A.1 to Figure A.10; Appendix B: Table B.1), and b) meteorology data acquired from the Woodfibre LNG meteorology station (Appendix A: Figure A.11 to Figure A.15; Appendix B: Table B.2).



4.1 Continuous Monitoring of PM and NO₂

A summary of the hourly ambient air monitoring results for PM_{2.5}, PM₁₀, TSP, and NO₂ for April 2025 is presented in Appendix A, Figure A.1 to Figure A.5, along with the corresponding regulatory criteria and comparisons with Langdale Elementary (BC ENVP 2024a) and Squamish Elementary (BC ENVP 2024b) regional ambient air quality monitoring stations. Langdale Elementary and Squamish Elementary were selected as reference points due to their relative proximity to the Woodfibre LNG construction site and the availability of relevant ambient air quality data. BC ENVP air quality monitoring station at Langdale Elementary provides measurements for PM_{2.5}, PM₁₀, NO₂, and SO₂, while Squamish Elementary monitors PM_{2.5}, NO₂, and SO₂. There are no BC ENVP ambient air quality monitoring stations near the Woodfibre LNG project site that measure TSP and VOCs.

During April 2025, the hourly $PM_{2.5}$ concentrations ranged from 0^1 to $39 \mu g/m^3$ (based on sampling between April 1 and April 17, and then from April 21 to April 30), the hourly PM_{10} concentrations ranged from 2 to 347 $\mu g/m^3$, the hourly TSP concentrations ranged from 5 to 893 $\mu g/m^3$, and the hourly NO_2 concentrations ranged from 0^2 to 38.9 ppb. The hourly results for the NO_2 concentration monitoring during this period were less than the BCAQO threshold value of 60 ppb. The hourly air quality objective threshold for NO_2 is based on the 3-year average of the annual 98^{th} percentile of the daily maximum 1-hour average concentration (CCME 2024; BC ENVP 2021).

Similarly, a summary of the daily (24-hour average) ambient air quality monitoring results for PM_{2.5}, PM₁₀, TSP, and NO₂ for April 2025 is presented in Table E.1 and Figure A.6 to Figure A.10 (Appendix A), with corresponding regulatory criteria and comparisons with Langdale Elementary and Squamish Elementary regional air quality monitoring stations. The AQMS's PM_{2.5} BAM sampler could not collect valid 24-hour average data from April 17 to April 21, 2025, due to a filter tape tension error. The 24-hour regulatory standards for PM₁₀ and TSP monitoring are 50 μ g/m³ and 120 μ g/m³, respectively. The 24-hour BCAQO threshold value for PM_{2.5} is 25 μ g/m³, based on the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations (CCME 2024; BC ENVP 2021).

During April 2025, the 24-hour average $PM_{2.5}$ concentrations of ranged from 3.5 to 13.5 μ g/m³ (based on valid data collected between April 1 and April 16, and then from April 22 to April 30; the data collected on April 17 and April 21 were excluded due to less than 75% data completeness), 24-hour average PM_{10} concentrations of ranged from 8.4 to 115.2 μ g/m³, 24-hour average TSP concentrations ranged from 10.5 to 264.6 μ g/m³, and 24-hour average NO_2 concentrations ranged from 4.9 to 16.4 ppb. The 24-hour average $PM_{2.5}$, PM_{10} and NO_2 concentrations recorded at the Woodfibre LNG AQMS site were generally higher than those observed at the Langdale Elementary and Squamish Elementary regional air quality

² The 42i NO-NO₂-NOx gas analyzer recording the NO₂ concentrations may occasionally report slightly negative values when the are very low. Both the BCFSM (BC ENVP 2020) and the National Air Pollution Surveillance (NAPS, CCME 2019) program provide data validation criteria for gas concentration measurements: values between -3 and 0 ppb are adjusted to 0, while values below -3 ppb are further investigated prior to setting to zero. This approach has been consistently applied in the data validation program.



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¹ The BAM 1020 instrument recording the PM_{2.5} concentrations may occasionally report slightly negative values when the are very low. Therefore, both the BCFSM (BC ENVP 2020) and the National Air Pollution Surveillance (NAPS, CCME 2019) program provide data validation criteria for PM_{2.5} measurements: values between -3 and 0 μg/m³ are adjusted to 0, while values below -3 μg/m³ are flagged as invalid. This approach has been followed for PM_{2.5} data validation program.

monitoring stations, which is expected given the proximity of the AQMS site to active construction activities.

The available data for April 2025 is insufficient to compare with the annual thresholds set for NO₂, PM_{2.5}, and TSP by BCAQO and CAAQS. However, the monthly average NO₂ concentration in April 2025 is 8.5 ppb. The combined average from January to April 2025 is 8.0 ppb, less than the BCAQO and CAAQS annual threshold of 17 ppb and 12 ppb, respectively.

The April 2025 monthly average PM_{2.5} concentration is 6.8 μ g/m³. The combined average for January and April 2025 is 5.8 μ g/m³ and is less than the BCAQO and CAAQS annual threshold values of 8.0 and 8.8 μ g/m³, respectively. However, this four-month average does not represent a yearly valid average for comparison with these thresholds. Similarly, the April monthly average TSP concentration is 50.1 μ g/m³. The combined average TSP concentration from January to April 2025 is 31.5 μ g/m³, below the BCAQO annual threshold of 60 μ g/m³.

A summary of the 24-hour average PM_{2.5}, PM₁₀, TSP and NO₂ concentrations measured during April 2025 is presented in Appendix A (Figure A.6 to Figure A.10) and Appendix B, Table B.1.

The measured concentrations for PM_{2.5} were less than the BCAQO threshold values of 25 µg/m³, and no air quality exceedances were recorded. However, air quality exceedances for PM₁₀ and TSP were recorded on April 15, April 16, and April 17, 2025. The measured 24-hour average concentrations recorded at the Woodfibre LNG AQMS were 66.0 μg/m³ (PM₁₀) and 168.9 μg/m³ (TSP) on April 15, 115.2 μ g/m³ (PM₁₀) and 264.6 μ g/m³ (TSP) on April 16, and 59.5 μ g/m³ (PM₁₀) and 154.8 μ g/m³ (TSP) on April 17. These values exceed the BCAQO threshold values of 50 μg/m³ for PM₁₀ and 120 μg/m³ for TSP. It was concluded, based on air quality and meteorology data investigations, that PM₁₀ and TSP exceedances were primarily attributable to construction project-related sources (see further details in the Air Quality Exceedance Reports, Appendix C). Additionally, PM₁₀ concentrations were above the projectspecific trigger level of 33.3 µg/m³ on April 14 (35.3 µg/m³) and April 18 (33.6 µg/m³). On these dates, the PM₁₀ concentrations measured at the Langdale Elementary regional air quality station were substantially lower, with 11.2 µg/m³ on April 14 and 10.2 µg/m³ on April 18. The PM₁₀ concentrations measured at the project site were more than three times higher than that of the regional ambient air quality monitoring station. This suggests that the elevated PM₁₀ concentrations were due to emissions from the on-site construction activities, as documented in the weekly reports (Appendix D). In response to the elevated PM₁₀ concentrations observed between April 14 and April 18, which included concentrations above the trigger level and the BCAQO threshold, the frequency of water truck dust suppression was increased during this period to minimize further dust generation during the dry weather conditions. Additionally, no complaints were received from the Floatel residents during April 2025 that required further investigation or mitigation actions. The weekly AQMS reports are presented in Appendix D.

4.2 Passive Monitoring of SO₂ and VOC

The passive sample media for SO_2 and total VOCs were swapped on May 2, 2025. This report includes the results for samples collected for the exposure period from April 1, 2025, to May 2, 2025. The laboratory analysis report is presented in Appendix E.



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The results for SO_2 and VOC samples show an ambient average concentration of 0.2 ppb and <0.7 ppb, respectively. The instrument-reported detection limits (RDL) are 0.2 ppb and 0.7 ppb, respectively. In comparison, the regional monitoring stations reported ambient SO_2 concentrations in April 2025, with Squamish Elementary recorded a lower concentration of 0.1 ppb and Langdale Elementary recorded a higher concentration of 1.4 ppb.

4.3 Meteorology

A summary of the meteorology conditions during April 2025 is presented in Appendix A, Figure A.11 to Figure A.15 and Appendix B, Table B.2. Daily average and maximum wind speeds are shown in Figure A.11. The highest hourly average wind speed was recorded on April 16, 2025, at 10:00 (13.9 m/s), and the highest 24-hour average wind speed occurred on April 19 (3.4 m/s). Figure A.12 presents a wind rose illustrating wind direction and speed for April 2025 at the Woodfibre LNG meteorology station. The prevailing wind direction is from the northwest. Additionally, Figure A.13 includes four wind roses capturing specific time intervals: between 0:00 and 8:00 hours, 9:00 and 12:00 hours, 13:00 and 19:00 hours, and 20:00 and 00:00 hours throughout April 2025.

The daily ambient temperature data is presented in Figure A.14. The maximum hourly air temperature of 20.4°C was recorded on April 25, 2025, at 11:00, while the minimum hourly temperature of 3.0°C occurred on April 13, 2025, at 05:00. The monthly average temperature for April 2025 was 10.0°C

The daily and total monthly rainfall data, presented in Figure A.15 and Table B.2, show that the highest single-day rainfall of 40.6 mm occurred on April 6, 2025. The total rainfall for April 2025 was 114.2 mm.

The daily average relative humidity values ranged from 51.5% to 99.9% in April 2025. The daily minimum, maximum, and average relative humidity values recorded at the Woodfibre LNG station are presented in Figure A.16 and Table B.2. The daily average barometric pressure values ranged from 1,008.1 hPa to 1,029.8 hPa in April 2025, with a monthly average of 1,019.8 hPa. The daily barometric pressure values are presented in Figure A.17 and Table B.2.



5 Summary of Ambient Air Quality Monitoring Results

The ambient air quality monitoring results for April 2025 indicate that the PM_{2.5} concentrations remained less than the BC Air Quality Objective threshold values, with three exceedances recorded for TSP and PM₁₀ on April 15, April 16 and April 17, 2025. These exceedances were primarily attributable to construction project-related sources (Air Quality Exceedance Reports; Appendix C). The hourly measured NO₂ concentrations were less than the BCAQO threshold. The meteorology data, including wind speed, temperature, and rainfall, support accurate interpretation of the ambient air quality monitoring trends. No complaints from the Floatel residents were received that required further investigation or a mitigation plan during April 2025.



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Appendices



Appendix A Figures



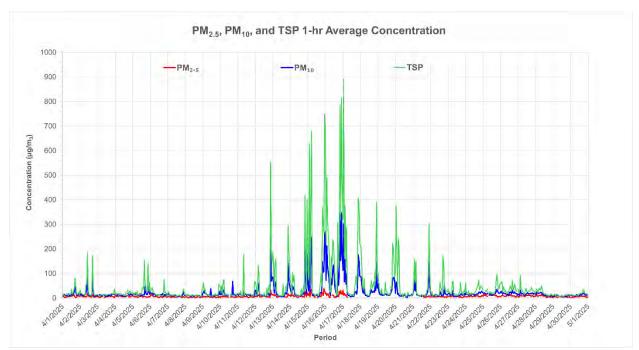


Figure A.1 Hourly PM Concentrations Recorded at the AQMS during April 2025

Note: Missing hourly data for PM_{2.5} between April 17 and April 21, 2025, is due to sampler filter tape error.

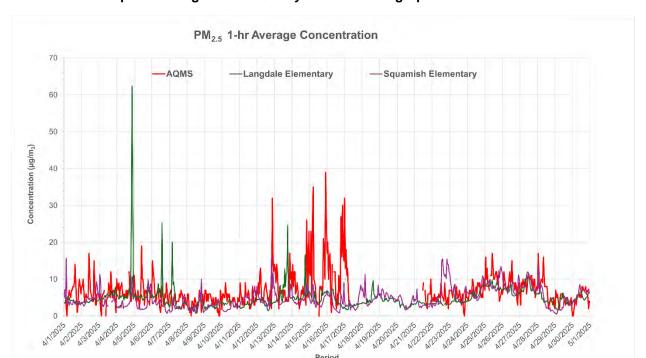


Figure A.2 Hourly PM_{2.5} Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during April 2025

Note: Missing hourly data for PM_{2.5} between April 17 and April 21, 2025, is due to sampler filter tape error.



Figure A.3 Hourly PM₁₀ Concentrations Recorded at the AQMS, and the Langdale Regional Air Quality Station during April 2025

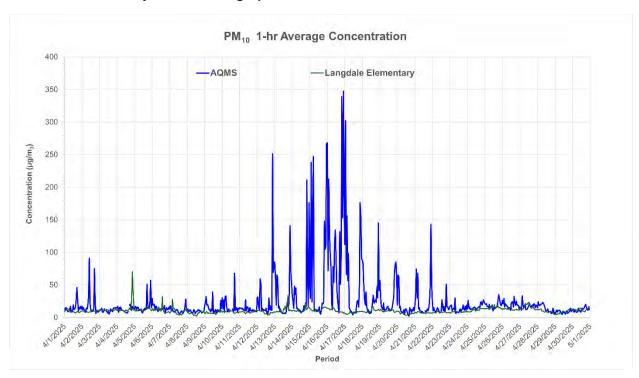


Figure A.4 Hourly TSP Concentrations Recorded at the AQMS during April 2025

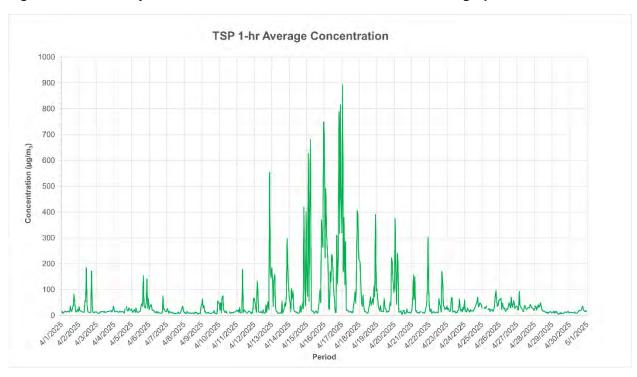




Figure A.5 Hourly NO₂ Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during April 2025

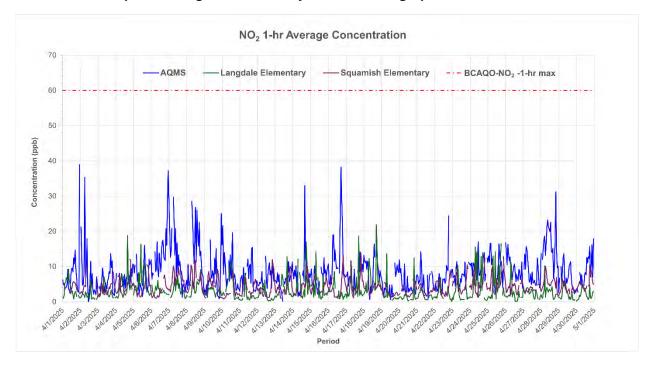
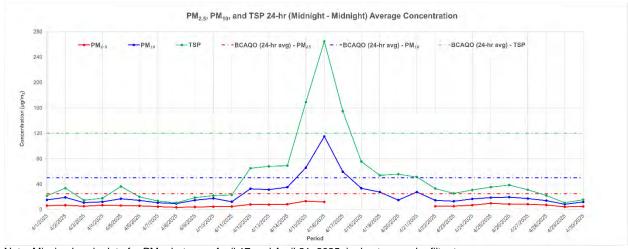
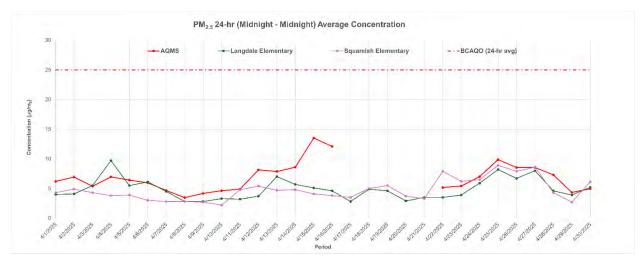


Figure A.6 24-Hour Average PM Concentrations Recorded at the AQMS during April 2025



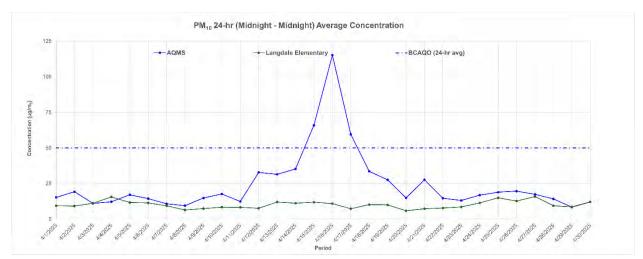
Note: Missing hourly data for PM_{2.5} between April 17 and April 21, 2025, is due to sampler filter tape error.

Figure A.7 24-Hour Average PM_{2.5} Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during April 2025



Note: Missing data for $PM_{2.5}$ between April 17 and April 21, 2025, is due to sampler filter tape error.

Figure A.8 24-Hour Average PM₁₀ Concentrations Recorded at the AQMS, and the Langdale Regional Air Quality Station during April 2025







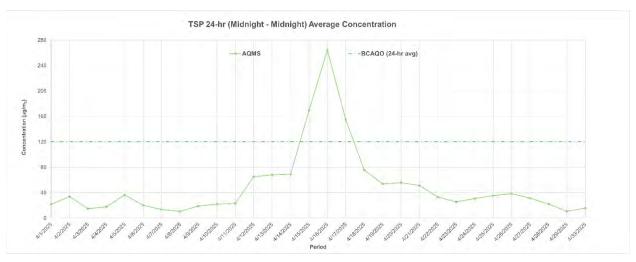


Figure A.10 24-Hour Average NO₂ Concentrations Recorded at the AQMS, and the Langdale and Squamish Regional Air Quality Stations during April 2025

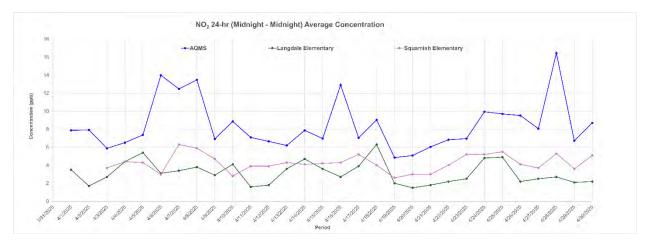


Figure A.11 Daily Average and Maximum Wind Speed Recorded at the Woodfibre LNG Meteorology Station during April 2025



Figure A.12 Windrose for Woodfibre LNG Meteorology Station during April 2025

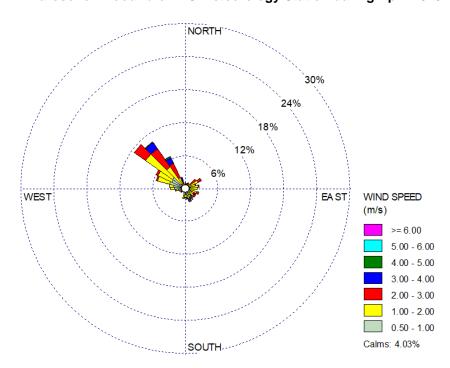




Figure A.13 Windrose for Woodfibre LNG Meteorology Station for the hours of 0000 - 0800, 0900 - 1200, 1300 - 1900, and 2000 - 2300 (April 2025)

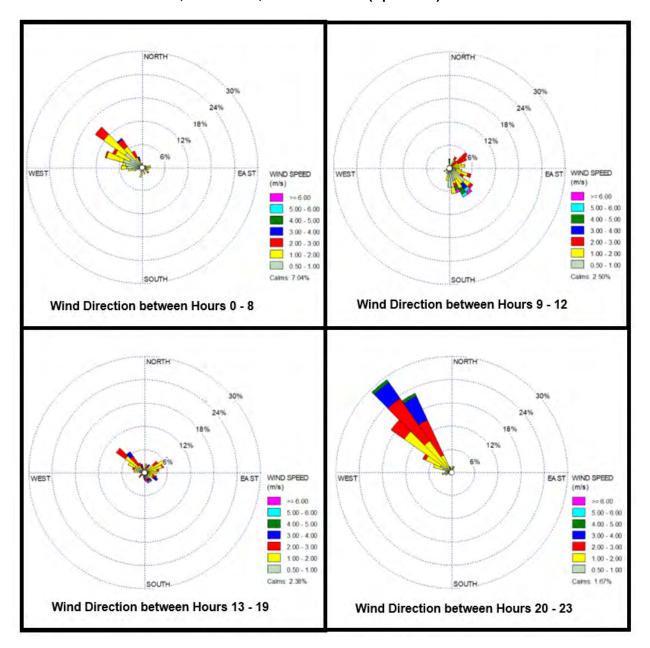




Figure A.14 Daily Average, Minimum, and Maximum Air Temperature Recorded at the Woodfibre LNG Meteorology Station during April 2025

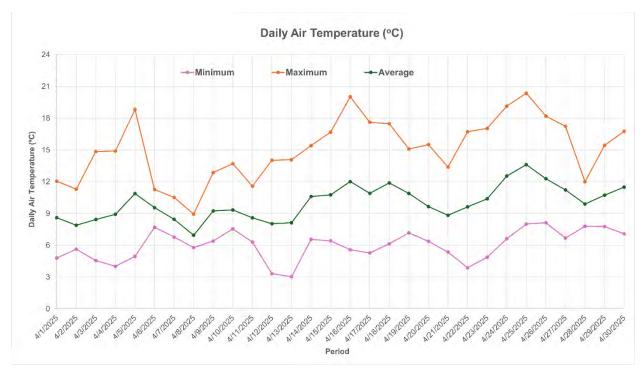




Figure A.15 Daily Rainfall Recorded at the Woodfibre LNG Meteorology Station during April 2025

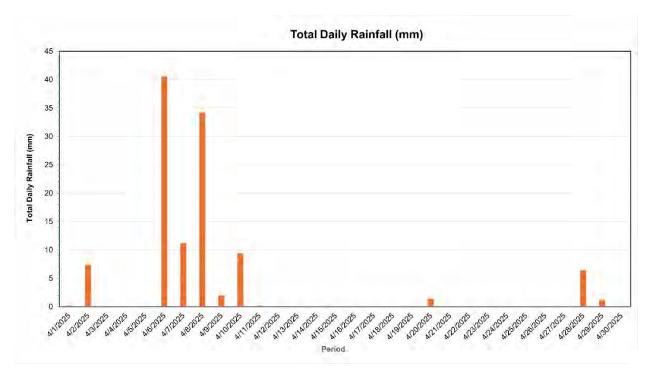


Figure A.16 Daily Average, Minimum, and Maximum Relative Humidity Recorded at the Woodfibre LNG Meteorology Station during April 2025

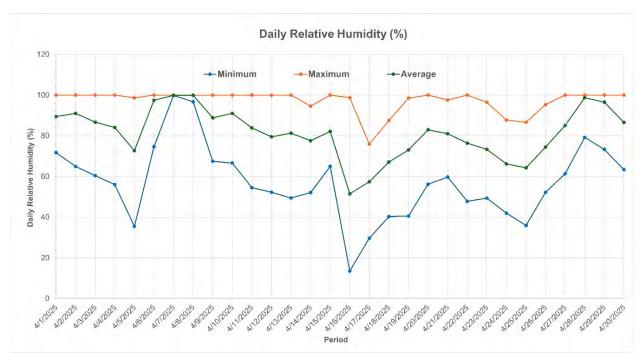
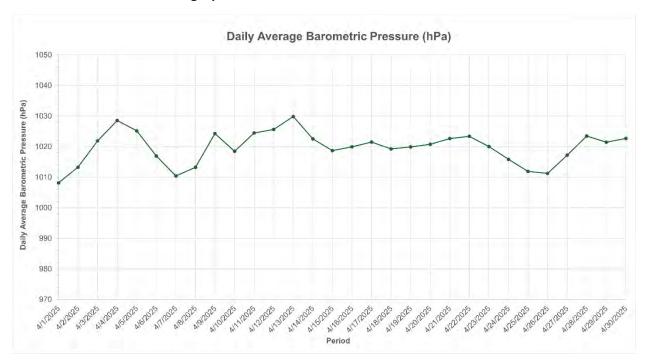




Figure A.17 Daily Average Barometric Pressure Recorded at the Woodfibre LNG Meteorology Station during April 2025





Appendix B Data Tables



Table B.1 Daily PM_{2.5}, PM₁₀, TSP, and NO₂ Concentrations Recorded at the AQMS for April 2025

Date	AQMS (24-hr Aver	age)			AQMS (1-hr Max)
	PM _{2.5}	PM ₁₀	TSP	NO ₂	NO ₂
	μg/m³	μg/m³	μg/m³	ppb	ppb
4/1/2025	6.2	15.3	21.6	7.9	38.9
4/2/2025	6.9	19.3	33.8	7.9	35.3
4/3/2025	5.4	11.0	14.7	5.9	13.7
4/4/2025	7.0	12.2	17.8	6.5	10.7
4/5/2025	6.4	17.1	36.5	7.4	16.0
4/6/2025	6.0	14.4	20.1	14.0	37.2
4/7/2025	4.7	10.8	13.5	12.5	29.7
4/8/2025	3.5	9.5	10.5	13.5	28.5
4/9/2025	4.2	14.8	19.0	6.9	25.0
4/10/2025	4.6	17.7	21.9	8.9	21.6
4/11/2025	4.9	12.4	23.1	7.1	15.4
4/12/2025	8.1	32.8	65.0	6.7	12.9
4/13/2025	7.9	31.5	68.1	6.2	11.4
4/14/2025	8.6	35.3	69.1	7.9	33.0
4/15/2025	13.5	66.0	168.9	7.0	12.5
4/16/2025	12.1	115.2	264.6	12.9	38.2
4/17/2025	_ a	59.5	154.8	7.0	14.2
4/18/2025	_ a	33.6	75.6	9.0	16.4
4/19/2025	_ a	27.6	53.9	4.9	11.0
4/20/2025	_ a	14.9	55.7	5.1	11.9
4/21/2025	_ a	27.7	51.3	6.0	14.2
4/22/2025	5.2	14.7	33.1	6.8	24.4
4/23/2025	5.4	13.1	25.5	7.0	11.4
4/24/2025	7.0	16.8	30.8	9.9	17.0
4/25/2025	9.9	18.9	35.3	9.7	16.6
4/26/2025	8.5	19.7	38.6	9.5	16.8
4/27/2025	8.5	17.4	31.3	8.1	15.7
4/28/2025	7.3	14.2	22.3	16.4	31.2
4/29/2025	4.3	8.4	10.8	6.7	13.7
4/30/2025	5.0	12.1	15.6	8.7	17.9

Note



 $^{^{\}rm a}$ Missing data for PM_{2.5} between April 17 and April 21, 2025, is due to sampler filter tape error.

Table B.2 Daily Wind Speed, Air Temperature, Relative Humidity, Barometric Pressure, and Rainfall Recorded at the Woodfibre LNG Meteorology Station for April 2025

Date	Daily Wir (m/s)	nd Speed	Daily A	ir Tempe	erature	Daily Re	elative Hu	umidity	Daily Average	Daily Total Rainfall
	Max	Avg	Min	Max	Avg	Min	Max	Avg	Pressure (hPa)	(mm)
4/1/2025	6.7	1.6	4.8	12.0	8.6	71.7	100.0	89.4	1008.1	0.2
4/2/2025	6.1	1.5	5.6	11.3	7.9	64.9	100.0	91.0	1013.3	7.4
4/3/2025	6.0	1.3	4.5	14.9	8.4	60.4	100.0	86.7	1021.9	0.0
4/4/2025	5.7	1.0	4.0	14.9	8.9	56.0	100.0	84.1	1028.5	0.0
4/5/2025	8.2	1.1	5.0	18.8	10.9	35.5	98.6	72.7	1025.2	0.0
4/6/2025	3.8	0.9	7.7	11.3	9.6	74.6	100.0	97.5	1016.9	40.6
4/7/2025	4.3	1.0	6.8	10.5	8.4	99.8	100.0	99.9	1010.4	11.2
4/8/2025	5.9	1.2	5.8	8.9	7.0	96.7	100.0	99.9	1013.2	34.2
4/9/2025	7.2	1.7	6.4	12.9	9.2	67.5	100.0	88.8	1024.3	2.0
4/10/2025	11.6	1.7	7.5	13.7	9.3	66.6	100.0	91.0	1018.5	9.4
4/11/2025	8.7	1.9	6.3	11.6	8.6	54.5	100.0	83.9	1024.5	0.2
4/12/2025	6.4	1.6	3.3	14.0	8.0	52.2	99.9	79.5	1025.6	0.0
4/13/2025	6.2	1.0	3.0	14.1	8.1	49.4	100.0	81.2	1029.8	0.0
4/14/2025	6.7	1.2	6.6	15.4	10.6	52.1	94.6	77.5	1022.5	0.0
4/15/2025	6.3	1.2	6.4	16.7	10.8	64.9	100.0	82.1	1018.7	0.0
4/16/2025	13.9	2.2	5.6	20.0	12.0	13.5	98.7	51.5	1019.9	0.0
4/17/2025	7.1	1.1	5.3	17.6	10.9	29.7	75.9	57.4	1021.5	0.0
4/18/2025	5.4	1.2	6.1	17.5	11.9	40.3	87.5	67.1	1019.3	0.0
4/19/2025	12.1	3.4	7.2	15.1	10.9	40.5	98.5	73.0	1019.9	0.0
4/20/2025	9.5	2.4	6.4	15.5	9.7	56.2	100.0	82.9	1020.8	1.4
4/21/2025	9.9	2.4	5.3	13.4	8.8	59.7	97.6	81.0	1022.6	0.0
4/22/2025	6.1	1.2	3.9	16.7	9.6	47.8	100.0	76.4	1023.4	0.0
4/23/2025	6.6	1.1	4.9	17.0	10.4	49.4	96.4	73.3	1020.0	0.0
4/24/2025	6.5	1.2	6.6	19.1	12.5	41.9	87.7	66.2	1015.9	0.0
4/25/2025	6.6	1.2	8.0	20.4	13.6	35.9	86.6	64.2	1011.9	0.0
4/26/2025	6.2	1.1	8.1	18.2	12.3	52.3	95.3	74.5	1011.2	0.0
4/27/2025	9.0	1.6	6.7	17.2	11.2	61.3	100.0	85.0	1017.2	0.0
4/28/2025	4.9	1.1	7.8	12.0	9.9	79.2	100.0	98.7	1023.4	6.4
4/29/2025	6.1	1.1	7.8	15.4	10.7	73.3	100.0	96.5	1021.5	1.2
4/30/2025	6.4	1.6	7.1	16.8	11.5	63.4	100.0	86.5	1022.7	0.0



Woodfibre LNG Air Quality Monitoring Station Report for April 2025 Appendix C: Air Quality Exceedance Reports June 17, 2025

Appendix C Air Quality Exceedance Reports





Memo

To: Ross McCann (Regulatory Project Specialist), From: Dr. Kashif Choudhry,

Ryan Schucroft (Environmental Site Lead), Senior Atmospheric Engineer Jackie Boruch (Environmental Site Lead), Dan Jarratt

Ian McAllister (Compliance Manager)

Air Quality Technical Area Leader Canada

Woodfibre LNG General Partner Inc. Stantec Consulting Ltd.

Project/File: 123222160 12.2025.400 Date: April 29, 2025

Reference: WLNG Air Quality Exceedance Report for PM₁₀ and TSP - April 15, 2025

Executive Summary

This report investigates the exceedance of the 24-hour British Columbia Ambient Air Quality Objectives (BCAQO) for PM₁₀ and TSP, which have a threshold of 50 μg/m³ and 120 μg/m³, respectively. PM₁₀ and TSP concentrations, recorded at the Woodfibre LNG Air Quality Monitoring Station (AQMS) using Met One Instrument BAM 1020s, recorded a 24-hour average of 66.0 μg/m³ and 168.9 μg/m³ respectively, with elevated hourly concentrations noted from 00:00 to 05:00, and then from 20:00 to 23:00 Pacific Standard Time (PST). Wind conditions, regional PM₁₀ data, and onsite work activities were analyzed to determine the likely sources of air quality exceedance, which were attributed to project-related activities. Based on the locations of the emission sources and the wind direction during the period of elevated concentrations, the exceedance of the 24-hour PM₁₀ BCAQO was primarily attributed to emissions from construction activities, including rock crushing and hauling material work. Dust plumes were observed originating from the haul roads, and the wind was predominantly from the northwest during the elevated concentrations; the dust could likely have been transported toward the Floatel. The exceedances are primarily linked to Project-related activities.

1 Introduction

This report assesses the PM_{10} , and TSP exceedances observed on April 15, 2025, at the Woodfibre LNG AQMS and examines the environmental and project-related factors contributing to the elevated concentrations. This analysis considers local meteorology data, onsite activities, and regional air quality data comparisons to identify the potential sources of the elevated PM_{10} concentrations. The Langdale Elementary regional ambient air quality monitoring station provides off-site PM_{10} concentrations for comparison, but do not provide information on ambient TSP concentrations.

2 Data Collection and Methodology

• Guideline Criteria Exceeded:

24-hour BC Air Quality Objective for PM₁₀: 50 μg/m³

24-hour BC Air Quality Objective for TSP: 120 μg/m³

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 15, 2025

Actual reading recorded at Woodfibre LNG AQMS:

PM₁₀ (24-hr average): 66.0 μg/m³
 TSP (24-hr average): 168.9 μg/m³

Elevated PM₁₀ and TSP hourly concentrations were recorded from 0:00 to 5:00 hours and again between 20:00 and 23:00 hours

Climatic Conditions:

- Wind Speed: 24-hour average of 1.2 m/s; range of 0.5 2.2 m/s
- Wind Direction: Predominantly from the northwest during the periods when elevated PM₁₀ and TSP concentrations were observed
- Total Precipitation (24-hours): 0.0 mm

Data collection included hourly PM₁₀ and TSP readings from the Woodfibre LNG AQMS, hourly wind speed, wind direction, and rainfall measurements from Woodfibre LNG meteorology station, and regional PM₁₀ data from the British Columbia Ministry of Environment and Parks (BC ENVP) Langdale Elementary air quality monitoring station. A North American smoke forecast from firesmoke.ca was also reviewed to assess the potential impacts of wildfire smoke. Onsite activity logs provided insight into the dust-generating activities that may have influenced the local ambient air quality.

3 Air Quality Exceedance Investigation

The observed PM₁₀ and TSP air quality exceedances was compared to regional air quality and local weather stations.

Figure 1 shows that PM_{10} concentrations recorded at the Woodfibre LNG air quality station on April 15, 2025, did not correlate with wind speed. The maximum hourly average wind speed measured at the onsite meteorology station was 2.2 m/s, blowing predominantly from the northwest quadrant (Figure 2). Figure 3 compares the PM_{10} concentrations recorded at the Woodfibre LNG AQMS to the regional Langdale Elementary air quality station operated by BC ENVP. The PM_{10} concentrations at the Woodfibre LNG site were higher than those recorded at the Langdale Elementary regional air quality station, particularly between 00:00 and 05:00 hours, and then again between 20:00 and 23:00 hours (Figure 3). The 24-hour average PM_{10} concentration recorded at AQMS (66.0 μ g/m³) was approximately six times higher than at Langdale Elementary (11.9 μ g/m³), further demonstrating the overall difference in air quality between the two locations.

Woodfibre LNG informed Stantec of dust-generating activities around the AQMS on April 15. During the night shift (6:00 p.m. to 6:00 a.m.), dust generating activities included rock crushing in the 4200 Area (north-northwest of the AQMS) and hauling material from the 4100 Area (northwest of the AQMS) to the site's east side for backfilling. Haul roads are highlighted with a blue line in Figure 4. Environmental Monitors (EMs) observed visible dust plumes originating from haul roads and the 4200 crushing area, particularly during dry and warm conditions. Site-wide dust suppression was in place, and water truck frequency was increased in response to the dry weather forecast. These operations contributed to the

April 29, 2025

Ross McCann (Regulatory Project Specialist),

Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager)

Page 3 of 3

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 15, 2025

observed PM₁₀ and TSP exceedances at the AQMS station (see Figure 4 for a summary of the onsite work activities across the construction site).

Figure 2 presents a wind rose showing the predominant wind direction during April 15, 2025, indicating wind patterns that likely dispersed particulates (fugitive dust) from the north-northwest. This aligns with dust-generating activities reported near the AQMS.

The North American smoke forecast at firesmoke.ca did not indicate that wildfire smoke affected air quality at the Woodfibre LNG Site on April 15, 2025 (Figure 5).

For reference, the 4100 Area is located northwest of the AQMS, with the Floatel positioned to the south-southeast of the 4100 Area and west-southwest of the AQMS station. On April 15, 2025, the wind predominantly blew from the northwest quadrant toward the AQMS station, particularly during the period when elevated PM₁₀ and TSP concentrations were recorded at the AQMS. Given this wind direction, and with dust plumes observed, it is likely that dust could have been transported toward the Floatel. However, no complaints were received by Woodfibre LNG from the Floatel residents.

4 Conclusion

In conclusion, the PM_{10} and TSP air quality exceedance recorded at the Woodfibre LNG site on April 15, 2025, can be attributed to dust-generating project-related construction activities, such as rock crushing in the 4200 area, and hauling of material in from the 4100 Area to the east side of the construction site for backfilling. Predominant winds from the northwest quadrant likely contributed to the increased PM_{10} and TSP concentrations observed by the AQMS during this period. Therefore, the PM_{10} and TSP exceedances are primarily attributable to the construction Project-related sources.

Regards,

Stantec Consulting Ltd.

Dr. Kashif Choudhry Ph.D., P.Eng. Senior Atmospheric Engineer Phone: (306) 667-2588 Mobile: (306) 717-2435 Kashif.Choudhry@stantec.com

stantec.com

Attachments: A: Figures

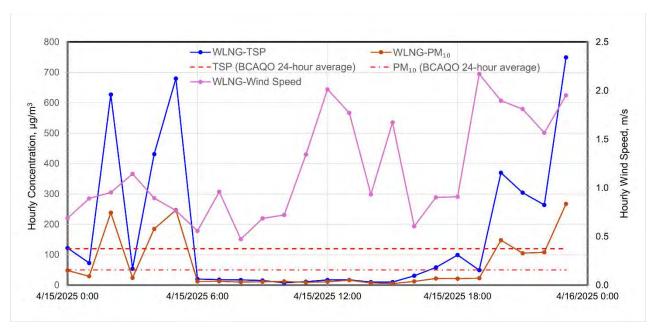
Dan Jarratt EP, P.Eng. (AB, BC) Air Quality Technical Area Leader Canada

Phone: (604) 235-1897 Mobile: (236) 818-4067 Dan.Jarratt@stantec.com April 29, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.1

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 15, 2025

Attachment A Figures

Figure 1 PM₁₀ and TSP concentrations and wind speed at the Woodfibre LNG site on April 15, 2025.



Page A.3

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 15, 2025

Figure 2 Windrose for the Woodfibre LNG Meteorology Station, April 15, 2025.

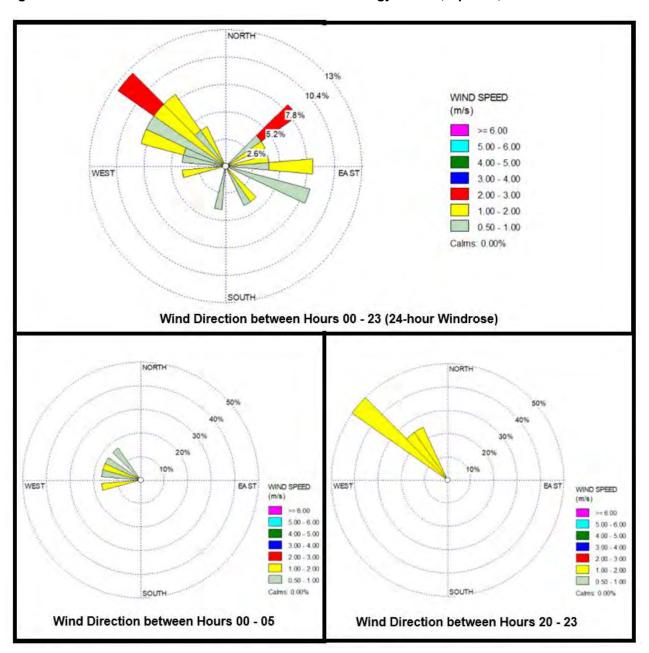


Figure 3 PM₁₀ concentrations at the Woodfibre LNG site and the Langdale Elementary Regional BC MOE Station on April 15, 2025.

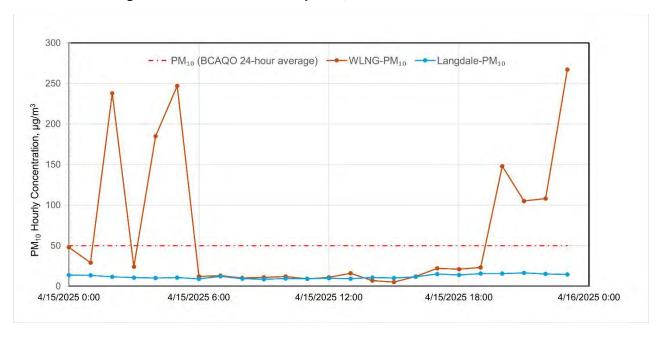


Figure 4 Details of the Woodfibre LNG Onsite Daily Work (Construction) Activities for April 15, 2025.



On-site Work Activities

The only dust-generating activities on April 15 were rock crushing in the 4200 Area and hauling material from the 4100 Area to the site's east side for backfilling. Haul routes are highlighted with blue lines. Please refer to the figure on the left for the April 15 work scope and the figure below for the area breakout.

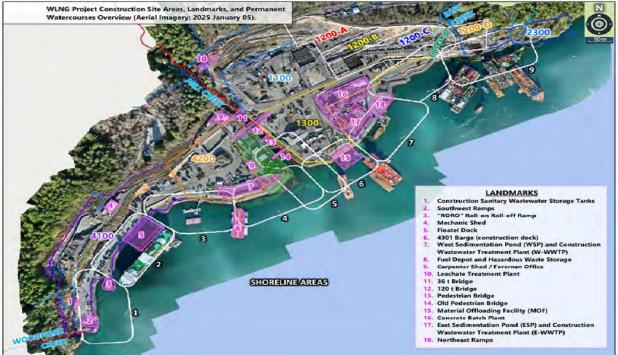
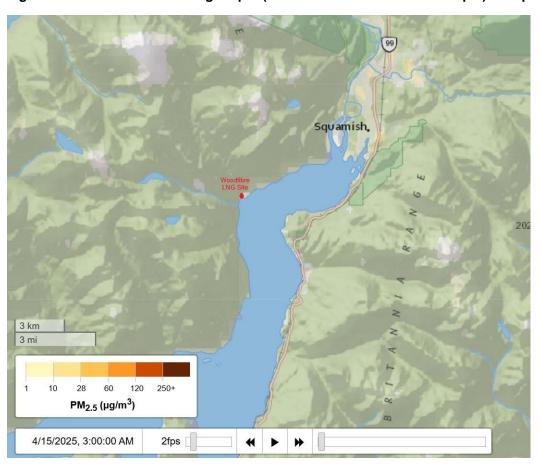
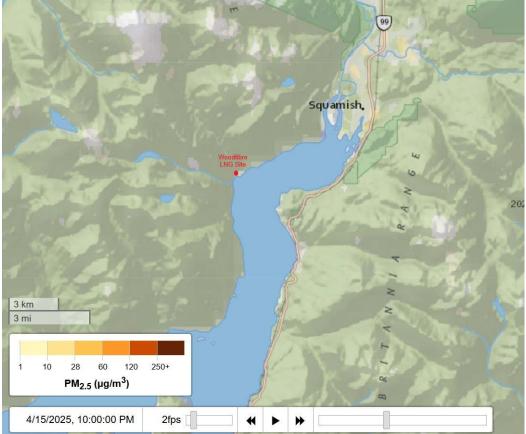


Figure 5 Smoke modelling output (forecast for 3:00 am and 10:00 pm) for April 15, 2025.





Note:

The timestamps in the figure are based on Saskatchewan time, which observes Central Standard Time (CST) year-round, with no Daylight-Saving Time (DST) adjustment.





To: Ross McCann (Regulatory Project Specialist), From: Dr. Kashif Choudhry,

Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager)

Woodfibre LNG General Partner Inc.

Senior Atmospheric Engineer

Michelle Bentzen Senior Associate, Environmental Planner

Stantec Consulting Ltd.

Project/File: 123222160 12.2025.400 Date: May 7, 2025

Reference: WLNG Air Quality Exceedance Report for PM₁₀ and TSP - April 16 and 17, 2025

Executive Summary

This report investigates the exceedance of the 24-hour British Columbia Ambient Air Quality Objectives (BCAQO) for PM $_{10}$ and TSP, which have thresholds of 50 µg/m 3 and 120 µg/m 3 , respectively. PM $_{10}$ and TSP concentrations, recorded at the Woodfibre LNG Air Quality Monitoring Station (AQMS) using Met One Instrument BAM 1020s, recorded a 24-hour average of 115.2 µg/m 3 and 59.5 µg/m 3 for PM $_{10}$ on April 16 and April 17, respectively. For TSP, the 24-hours averages were 264.6 µg/m 3 on April 16 and 154.8 µg/m 3 on April 17. Elevated hourly concentrations of PM $_{10}$ and TSP were noted from 00:00 to 05:00, 08:00 to 12:00, and from 17:00 on April 16 to 05:00 on April 17, as well as from 20:00 to 23:00 on April 17, 2025, Pacific Standard Time (PST). Wind conditions, regional PM $_{10}$ data, and onsite work activities were analyzed to determine the likely sources of air quality exceedance. Based on the locations of the emission sources and the wind direction during the period of elevated concentrations, these exceedances of the 24-hour PM $_{10}$ and TSP BCAQO were primarily attributed to emissions from project construction activities, including rock crushing and hauling material work. While fugitive dust plumes were not observed originating from the rock crushing work, the wind was predominantly from the northwest during the elevated concentrations; the dust could likely have been transported toward the Floatel. These exceedances are primarily linked to Project-related activities.

1 Introduction

This report assesses the PM₁₀, and TSP exceedances observed on April 16 and 17, 2025, at the Woodfibre LNG AQMS and examines the environmental and project-related factors contributing to the elevated concentrations. This analysis considers local meteorology data, onsite activities, and regional air quality data comparisons to identify the potential sources of the elevated PM₁₀ concentrations. The Langdale Elementary regional ambient air quality monitoring station provides off-site PM₁₀ concentrations for comparison but does not provide information on ambient TSP concentrations.

May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page 2 of 4

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 16 and 17, 2025

2 Data Collection and Methodology

- Guideline Criteria Exceeded:
 - 24-hour BC Air Quality Objective for PM₁₀: 50 μg/m³
 - 24-hour BC Air Quality Objective for TSP: 120 μg/m³
- Actual reading recorded at Woodfibre LNG AQMS:
 - On April 16, 2025
 - PM10 (24-hr average): 115.2 μg/m³
 - TSP (24-hr average): 264.6 μg/m³
 - On April 17, 2025
 - PM10 (24-hr average): 59.5 μg/m³
 - TSP (24-hr average): 154.8 μg/m³

Elevated PM₁₀ and TSP hourly concentrations were recorded from 00:00 to 05:00, 08:00 to 12:00, and from 17:00 on April 16 to 05:00 on April 17, as well as from 20:00 to 23:00 on April 17, 2025.

• Climatic Conditions:

- On April 16, 2025
 - Wind Speed: 24-hour average of 2.2 m/s; range of 0.6 4.3 m/s
 - Wind Direction: Predominantly from the northwest during the periods when elevated PM₁₀ and TSP concentrations were observed
 - Total Precipitation (24-hours): 0.0 mm
- On April 17, 2025
 - Wind Speed: 24-hour average of 1.1 m/s; range of 0.5 3.2 m/s
 - Wind Direction: Predominantly from the northwest during the periods when elevated PM₁₀ and TSP concentrations were observed
 - Total Precipitation (24-hours): 0.0 mm

Data collection included hourly PM₁₀ and TSP readings from the Woodfibre LNG AQMS, hourly wind speed, wind direction, and rainfall measurements from Woodfibre LNG meteorology station, and regional PM₁₀ data from the British Columbia Ministry of Environment and Parks (BC ENVP) Langdale Elementary air quality monitoring station. A North American smoke forecast from firesmoke.ca was also reviewed to assess the potential impacts of wildfire smoke. Onsite activity logs provided insight into the dust-generating activities that may have influenced the local ambient air quality.

May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page 3 of 4

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 16 and 17, 2025

3 Air Quality Exceedance Investigation

The observed PM₁₀ and TSP air quality exceedances were compared to regional air quality and local weather stations.

Figure 1 shows that PM $_{10}$ concentrations recorded at the Woodfibre LNG air quality station on April 16 and 17, 2025, did not correlate with wind speed. The maximum hourly average wind speed measured at the onsite meteorology station was 4.3 m/s on April 16 and 3.2 m/s on April 17, both blowing predominantly from the northwest quadrant (Figure 2). Figure 3 compares the PM $_{10}$ concentrations recorded at the Woodfibre LNG AQMS to the regional Langdale Elementary air quality station operated by BC ENVP. The PM $_{10}$ concentrations at the Woodfibre LNG site were higher than those recorded at the Langdale Elementary regional air quality station, particularly between 00:00 and 05:00 hours, 08:00 and 12:00 hours, and then again between 17:00 and 23:00 hours on April 16, and Between 00:00 and 05:00 hours and between 20:00 and 23:00 hours on April 17 (Figure 3). The 24-hour average PM $_{10}$ concentration recorded at AQMS were 115.2 μ g/m 3 on April 16 and 59.5 μ g/m 3 on April 17. These values were approximately eleven times and eight times higher, respectively than the concentrations recorded at the Langdale Elementary regional air quality station, which recorded 10.9 μ g/m 3 on April 16 and 7.3 μ g/m 3 on April 17. This further demonstrates the overall difference in air quality between the two locations.

Woodfibre LNG informed Stantec of dust-generating activities around the AQMS on April 16 and 17. During the night shift (6:00 p.m. to 6:00 a.m.) on both April 16 and 17, 2025, dust generating activities included rock crushing in the 4200 Area (north-northwest of the AQMS) and hauling material from the 4100 Area (northwest of the AQMS) to the site's east side for backfilling. Haul roads are highlighted with a blue line in Figure 4. Environmental Monitors (EMs) did not observe visible dust plumes originating from haul roads and the 4200 crushing area, particularly during dry and warm conditions. Site-wide dust suppression was in place, and water truck frequency was increased in response to the dry weather forecast. These dust-generating activities contributed to the observed PM₁₀ and TSP exceedances at the AQMS station (see Figure 4 for a summary of the onsite work activities across the construction site).

Figure 2 presents a wind rose showing the predominant wind direction during April 16 and 17, 2025, indicating wind patterns that likely dispersed particulates (fugitive dust) from the northwest. This aligns with dust-generating activities reported near the AQMS.

The North American smoke forecast at firesmoke.ca did not indicate that wildfire smoke affected air quality at the Woodfibre LNG Site on April 16 and 17, 2025 (Figure 5).

For reference, the 4100 Area is located northwest of the AQMS, with the Floatel positioned to the south-southeast of the 4100 Area and west-southwest of the AQMS station (Figure 4). On April 16 and 17, 2025, the wind predominantly blew from the northwest quadrant toward the AQMS station, particularly during the period when elevated PM₁₀ and TSP concentrations were recorded at the AQMS. Given this wind direction, it is likely that dust could have been transported toward the Floatel. However, no complaints were received by Woodfibre LNG from the Floatel residents.

May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page 4 of 4

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 16 and 17, 2025

4 Conclusion

In conclusion, the PM₁₀ and TSP air quality exceedance recorded at the Woodfibre LNG site on April 16 and 17, 2025, can be attributed to dust-generating project-related construction activities, such as rock crushing in the 4200 Area, and hauling of material from the 4100 Area to the east side of the construction site for backfilling. Predominant winds from the northwest quadrant likely contributed to the increased PM₁₀ and TSP concentrations observed by the AQMS during this period. Therefore, the PM₁₀ and TSP exceedances are primarily attributable to the construction Project-related sources.

Regards,

Stantec Consulting Ltd.

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Attachments: A: Figures

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May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.1

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 16 and 17, 2025

Attachment A Figures

May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.2

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 16 and 17, 2025

Figure 1 PM₁₀ and TSP concentrations and wind speed at the Woodfibre LNG site on April 16 and 17, 2025

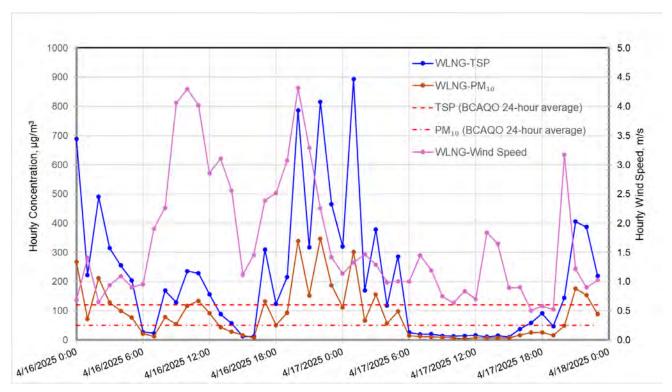
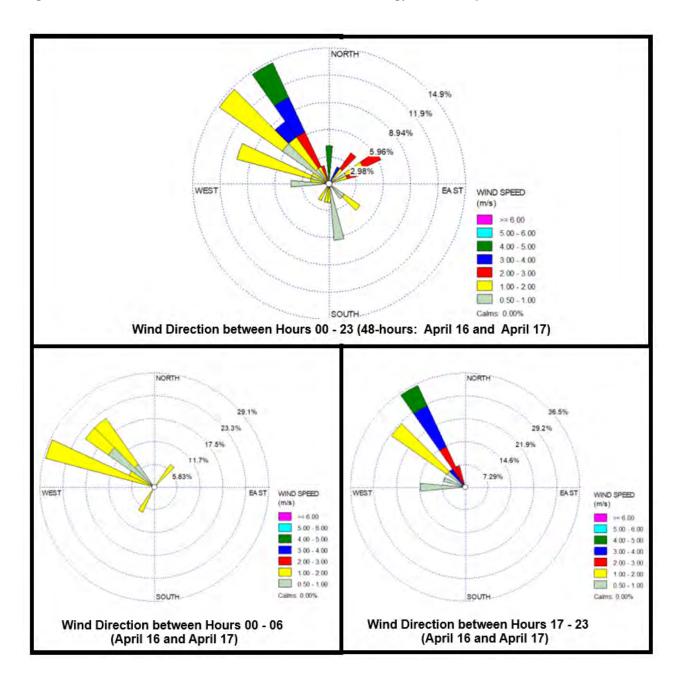


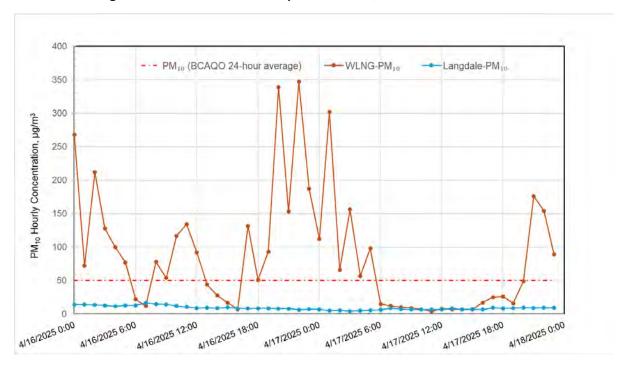
Figure 2 Windrose for the Woodfibre LNG Meteorology Station, April 15 and 17, 2025.



May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.4

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP - April 16 and 17, 2025

Figure 3 PM₁₀ concentrations at the Woodfibre LNG site and the Langdale Elementary Regional BC MOE Station on April 16 and 17, 2025.



May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.5

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 16 and 17, 2025

Figure 4 Details of the Woodfibre LNG Onsite Daily Work (Construction) Activities for April 16 and 17, 2025.



On-site Work Activities

The only dust-generating activities on April 16 and 17 were rock crushing in the 4200 Area and hauling material from the 4100 Area to the east side of the site for backfilling. Haul routes are highlighted with blue lines. Please refer to the figure on the left for the April 16 and 17 work scope, and the figure below for the area breakout.

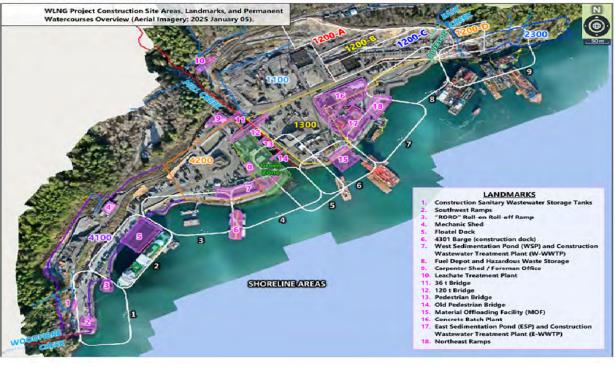
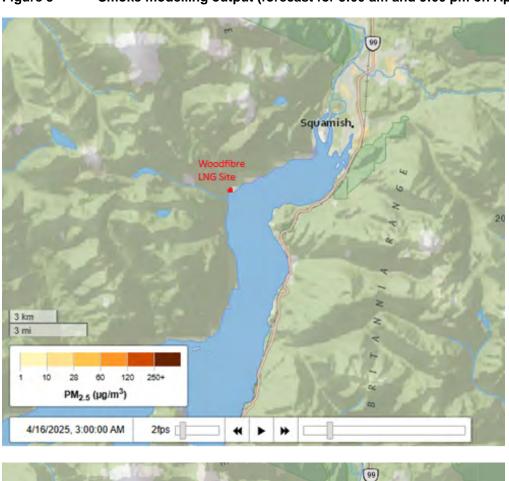
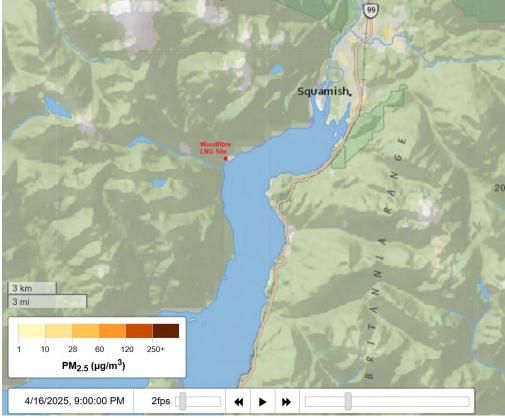
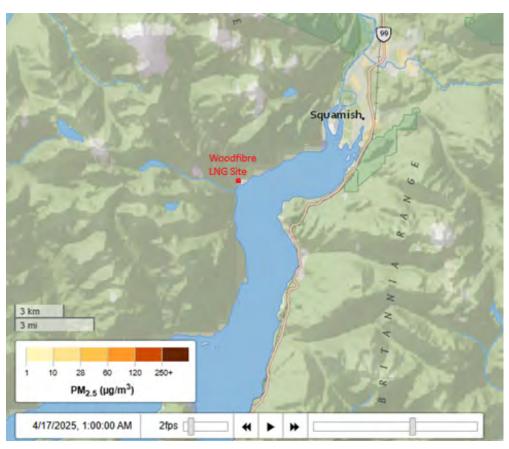


Figure 5 Smoke modelling output (forecast for 3:00 am and 9:00 pm on April 16, 2025, and 01:00 am and 9:00 pm on April 17, 2025).

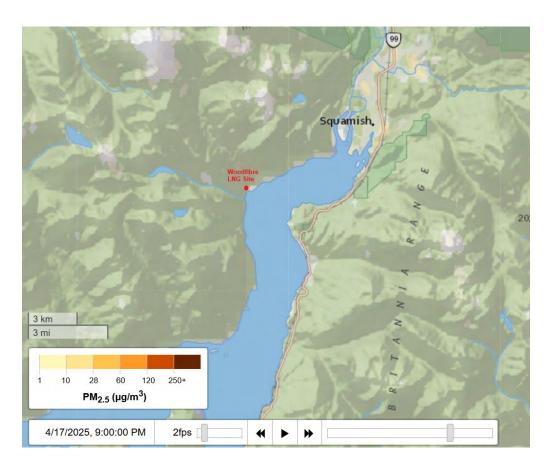






May 7, 2025 Ross McCann (Regulatory Project Specialist), Ryan Schucroft (Environmental Site Lead), Jackie Boruch (Environmental Site Lead), Ian McAllister (Compliance Manager) Page A.7

Reference: WLNG Air Quality Exceedance Report for PM10 and TSP – April 16 and 17, 2025



Note:

The timestamps in the figure are based on Saskatchewan time, which observes Central Standard Time (CST) year-round, with no Daylight-Saving Time (DST) adjustment.

Appendix D Weekly AQMS Reports





WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from March 31 to April 06, 2025.

Objective

This report summarizes the air quality monitoring data for the week of March 31 to April 06, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

	PM _{2.5} (μg/m ³)			PM ₁₀ (μg/m ³)		TSP (μg/m ³)			NO ₂ (ppb)			
Date	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
31 Mar	0	16	6.9	5	82	16.3	6	183	27.8	1.7	25.4	11.2
01 Apr	0	14	6.2	8	46	15.3	9	82	21.6	2.5	38.9	7.9
02 Apr	3	17	6.9	6	91	19.3	11	185	33.8	0.0	35.3	7.9
03 Apr	0	12	5.4	5	15	11.0	8	36	14.7	1.7	13.7	5.9
04 Apr	4	12	7.0	7	20	12.2	9	34	17.8	3.4	10.7	6.5
05 Apr	2	19	6.4	7	57	17.1	11	154	36.5	1.5	16.0	7.4
06 Apr	1	15	6.0	6	29	14.4	8	74	20.1	6.4	37.2	14.0

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 μg/m³ Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM_{10} : 50 $\mu g/m^3$ Achievement based on the daily (24-hr) average.
- TSP: 120 μg/m³ Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

Pollutant	units	1-hr Min	1-hr Max	Weekly average	Trigger Limits (2/3 of the AQO)	Time Above Trigger Limit (Days)	Time Above AQO (Days)
$PM_{2.5}$	μg/m ³	0	19	6.4	16.7 (24-hr avg)	0	0
PM_{10}	$\mu g/m^3$	5	91	15.1	33.3 (24-hr avg)	0	0
TSP	μg/m ³	6	185	24.6	80 (24-hr avg)	0	0
NO ₂	ppb	0.0	38.9	8.7	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind S ₁	peed (m/s)	Ambi	ent Temperat	Total Precipitation	
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
31 Mar	6.1	1.5	6.9	12.4	8.9	6.6
01 Apr	6.7	1.6	4.8	12.0	8.6	0.2
02 Apr	6.1	1.5	5.6	11.3	7.9	7.4
03 Apr	6.0	1.3	4.5	14.9	8.4	0.0
04 Apr	5.7	1.0	4.0	14.9	8.9	0.0
05 Apr	8.2	1.1	5.0	18.8	10.9	0.0
06 Apr	3.8	0.9	7.7	11.3	9.6	40.6



Table 4: P	able 4: Passive SO2 and VOC Sampling											
Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments							
31-Mar to 06-Apr	Yes	Yes	Yes	No	NA							

Note: SO₂ and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on April 1, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from March 31 to April 06, construction activities include, breaking oversized rock and excavating a utility trench in Area 1100, excavating a test pit in Area 1200D, sifting and hauling rock to Surge Road, hauling rock to the crusher from Areas 1100 and 1200, backfilling in Areas 1100 and 1200, stockpiling Type D material, performing grade work at the North Sump, conducting backfill and grade work at the Admin Building, removing blast rock from Area 1200, and placing Type A and Type D material in Area 1100.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.



WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from April 07 to April 13, 2025.

Objective

This report summarizes the air quality monitoring data for the week of April 07 to April 13, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

	PM _{2.5} (μg/m ³)			PM ₁₀ (μg/m ³)		TSP (μg/m³)			NO ₂ (ppb)			
Date	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
07 Apr	2	7	4.7	6	28	10.8	7	36	13.5	1.3	29.7	12.5
08 Apr	0	7	3.5	6	13	9.5	5	35	10.5	3.5	28.5	13.5
09 Apr	0	7	4.2	6	39	14.8	7	62	19.0	0.9	25.0	6.9
10 Apr	2	9	4.6	8	68	17.7	8	75	21.9	3.2	21.6	8.9
11 Apr	2	9	4.9	8	27	12.4	6	178	23.1	2.9	15.4	7.1
12 Apr	2	32	8.1	6	251	32.8	8	554	65.0	3.0	12.9	6.7
13 Apr	2	17	7.9	6	141	31.5	8	296	68.1	0.2	11.4	6.2

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 μg/m³ Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM_{10} : 50 $\mu g/m^3$ Achievement based on the daily (24-hr) average.
- TSP: 120 μg/m³ Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

		1-hr	1-hr	Weekly	Trigger Limits (2/3 of	Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
$PM_{2.5}$	μg/m ³	0	32	5.4	16.7 (24-hr avg)	0	0
PM_{10}	$\mu g/m^3$	6	251	18.5	33.3 (24-hr avg)	0	0
TSP	μg/m ³	5	554	31.6	80 (24-hr avg)	0	0
NO_2	ppb	0.2	29.7	8.8	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind S	peed (m/s)	Ambi	ent Temperat	Total Precipitation	
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
07 Apr	4.3	1.0	6.8	10.5	8.4	11.2
08 Apr	5.9	1.2	5.8	8.9	7.0	34.2
09 Apr	7.2	1.7	6.4	12.9	9.2	2.0
10 Apr	11.6	1.7	7.5	13.7	9.3	9.4
11 Apr	8.7	1.9	6.3	11.6	8.6	0.2
12 Apr	6.4	1.6	3.3	14.0	8.0	0.0
13 Apr	6.2	1.0	3.0	14.1	8.1	0.0



Table 4: P	Table 4: Passive SO2 and VOC Sampling											
Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments							
07-Apr to 13-Apr	No	No	No	No	No sample swap or lab analysis was performed during this period.							

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on April 1, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from April 7 to April 13, construction activities included breaking a utility trench in Area 1100, breaking oversize material north of M10 and in the Kode area, breaking rock for the 1200D Flare Stack anchor, loading out oversize material from 1200A, and crushing material at Kode to produce Type D.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedances recorded for this period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaints received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.



WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from April 14 to April 20, 2025.

Objective

This report summarizes the air quality monitoring data for the week of April 14 to April 20, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

	$PM_{2.5} (\mu g/m^3)^{1}$			PM ₁₀ (μg/m ³)		TSP (μg/m ³)			NO ₂ (ppb)			
Date	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
14 Apr	2	26	8.6	7	211	35.3	8	418	69.1	1.5	33.0	7.9
15 Apr	0	39	13.5	5	267	66.0	8	749	168.9	2.1	12.5	7.0
16 Apr	1	30	12.1	7	347	115.2	12	816	264.6	4.9	38.2	12.9
17 Apr	_	_	_	4	302	59.5	10	893	154.8	2.3	14.2	7.0
18 Apr	_	_	_	6	145	33.6	9	390	75.6	0.7	16.4	9.0
19 Apr	_	_	_	10	85	27.6	12	223	53.9	0.6	11.0	4.9
20 Apr	-	_	_	2	65	14.9	5	374	55.7	2.1	11.9	5.1

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 μg/m³ Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM_{10} : 50 $\mu g/m^3$ Achievement based on the daily (24-hr) average.
- TSP: 120 μg/m³ Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Data is unavailable from April 17 to April 20 due to the PM_{2.5} BAM sampler's Tape tension malfunction.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

		1-hr	1-hr	Weekly	Trigger Limits (2/3 of	Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
$PM_{2.5}$	μg/m ³	0	39	11.4	16.7 (24-hr avg)	0	0
PM_{10}^{-1}	μg/m ³	2	347	50.3	33.3 (24-hr avg)	5	3
TSP ²	μg/m ³	5	893	120.4	80 (24-hr avg)	3	3
NO_2	ppb	0.6	38.2	7.7	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind Speed (m/s)		Ambi	ent Temperat	Total Precipitation	
Date	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
14 Apr	6.7	1.2	6.6	15.4	10.6	0.0
15 Apr	6.3	1.2	6.4	16.7	10.8	0.0
16 Apr	13.9	2.2	5.6	20.0	12.0	0.0
17 Apr	7.1	1.1	5.3	17.6	10.9	0.0
18 Apr	5.4	1.2	6.1	17.5	11.9	0.0
19 Apr	12.1	3.4	7.2	15.1	10.9	0.0
20 Apr	9.5	2.4	6.4	15.5	9.7	1.4



Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments					
14-Apr to 20-Apr	No	No	No	Yes	Exposure Period (March): SO ₂ =<0.2 ppb & VOC=<0.7 ppb					

Note: SO₂ and VOC passive samples are swapped on a monthly basis. Passive samples were swapped on April 1, 2025, and shipped to AGAT Labs. The laboratory analysis report for the exposure periods of March 3 – April 1 (VOC) and, March 7 to April 1 (SO₂) was received on April 16, 2025.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from April 14 to April 20, construction activities included excavating and breaking rock for the sump on the east side of M13, breaking oversize material at 1100 and 1200, breaking rock at the flare stack anchor B, crushing material at the Kode stockpile to produce Type D, and loading and hauling material from Area 1100 and 4100.

Summary of Daily Reports and Action Taken Details **Action Taken** Category Resolution Status / Anticipated **Completion Date** AO Air quality exceedances were recorded Investigation and data The air quality exceedance reports are Exceedances on April 15, 16, and 17, 2025. QA/QC have been under preparation. completed. Report April 15: $PM_{10} = 66.0 \mu g/m^3$; $TSP = 168.9 \ \mu g/m^3$ April 16: $PM_{10} = 115.2$ $\mu g/m^3$; TSP = 264.6 $\mu g/m^3$ April 17: $PM_{10} = 59.5 \mu g/m^3$; $TSP = 154.8 \, \mu g/m^3$ AO No AO complaints received during No Action required. Not Applicable. Complaints this period. Alerts from No alarms or instrument break-down No Action required. Not Applicable. the AQMS was reported from AGAT during this period. Changes to No changes to the monitoring network Not Applicable. Not Applicable. during this period. the Monitoring Network Changes to No changes to mitigation measures Not Applicable. Not Applicable. Mitigation during this period. Measures

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. Air quality exceedances of the British Columbia Air Quality Objectives were recorded for PM₁₀ and TSP on April 15, 16, and 17, 2025. As a result, air quality exceedance reports are currently being prepared.



WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from April 21 to April 27, 2025.

Objective

This report summarizes the air quality monitoring data for the week of April 21 to April 27, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

	PM _{2.5} (μg/m ³)		PM ₁₀ (μg/m ³)		TSP (μg/m³)			NO ₂ (ppb)				
Date	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
21 Apr	_ 1	- ¹	_ 1	7	143	27.7	8	303	51.3	0.7	14.2	6.0
22 Apr	2	9	5.2	7	51	14.7	8	171	33.1	2.2	24.4	6.8
23 Apr	0	8	5.4	6	30	13.1	10	68	25.5	1.1	11.4	7.0
24 Apr	4	10	7.0	11	27	16.8	13	71	30.8	5.9	17.0	9.9
25 Apr	4	17	9.9	10	35	18.9	15	97	35.3	2.5	16.6	9.7
26 Apr	3	15	8.5	11	32	19.7	16	71	38.6	3.8	16.8	9.5
27 Apr	3	11	8.5	11	33	17.4	15	93	31.3	4.0	15.7	8.1

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 μg/m³ Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM_{10} : 50 $\mu g/m^3$ Achievement based on the daily (24-hr) average.
- TSP: 120 μg/m³ Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO₂ exceed the respective threshold values.

Data is unavailable due to the PM_{2.5} BAM sampler's Tape tension malfunction.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

		1-hr	1-hr	Weekly	Trigger Limits (2/3 of	Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
$PM_{2.5}$	μg/m ³	0	17	7.4	16.7 (24-hr avg)	0	0
PM_{10}	μg/m ³	6	143	18.3	33.3 (24-hr avg)	0	0
TSP	μg/m ³	8	303	35.1	80 (24-hr avg)	0	0
NO_2	ppb	0.7	24.4	8.1	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind S ₁	peed (m/s)	Ambi	ent Temperat	Total Precipitation	
Bate	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
21 Apr	9.9	2.4	5.3	13.4	8.8	0.0
22 Apr	6.1	1.2	3.9	16.7	9.6	0.0
23 Apr	6.6	1.1	4.9	17.0	10.4	0.0
24 Apr	6.5	1.2	6.6	19.1	12.5	0.0
25 Apr	6.6	1.2	8.0	20.4	13.6	0.0
26 Apr	6.2	1.1	8.1	18.2	12.3	0.0
27 Apr	9.0	1.6	6.7	17.2	11.2	0.0



Table 4: Passive SO₂ and VOC Sampling

Date	Sampled Swapped (Yes/No)	Chain of Custody (COC) Submitted (Yes/No)	Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments
21-Apr to 27-Apr	No	No	No	No	No sample swap or lab analysis was performed during this period.

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on April 1, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from April 21 to April 27, construction activities included rock anchor installation in areas M01 and P10, backfilling in the P02 area and Area 4200, breaking and clearing at the flare stack, oversize rock breaking in Area 1100, material sorting and stockpiling at the batch plant, and grading and road topping in Area 4200.

Summary of Daily Reports and Action Taken

Category	Details	Action Taken	Resolution Status / Anticipated Completion Date
AQ Exceedances Report	No AQ exceedance was recorded during this period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaint was received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.



WLNG AQMS - Weekly Reporting

Reporting Period

This AQMS Weekly report covers the period from April 28 to May 4, 2025.

Objective

This report summarizes the air quality monitoring data for the week of April 28 to May 4, 2025. This report includes an analysis of pollutants such as PM_{2.5}, PM₁₀, TSP, and NO₂, highlighting any significant dust events, alerts from the Air Quality Monitoring Station (AQMS), and changes to the monitoring network and mitigation measures. Additionally, the report documents the results of any investigations into alerts or equipment failures, detailing the actions taken or plans for resolution because these are reasonable efforts to maintain compliance with environmental standards and support the ongoing air quality management efforts.

Summary of Onsite Air Quality and Meteorological Data Collected

This section presents four summary tables for the air quality and meteorology data. The data is based on a Level 0 verification, indicating that it has undergone preliminary checks for completeness and accuracy.

Table 1: Summary of Daily Results for the Past 7 Days

	PM _{2.5} (μg/m ³)		PM ₁₀ (μg/m ³)		TSP (μg/m³)		NO ₂ (ppb)					
Date	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg	1-hr Min	1-hr Max	24-hr Avg
28 Apr	2	17	7.3	6	24	14.2	7	49	22.3	6.6	31.2	16.4
29 Apr	2	7	4.3	5	14	8.4	5	16	10.8	2.3	13.7	6.7
30 Apr	0	8	5.0	8	20	12.1	8	35	15.6	2.8	17.9	8.7
1 May	1	14	6.8	6	20	12.8	10	43	21.3	3.6	33.4	11.8
2 May	4	16	7.9	11	49	18.8	12	88	30.1	3.6	22.4	10.8
3 May	0	11	5.0	6	16	9.7	6	20	12.3	0.0	31.4	8.7
4 May	0	10	4.4	4	11	8.3	5	22	11.6	1.0	21.0	7.7

Note: The British Columbia Air Quality Objectives (AQO) are:

- PM_{2.5}: 25 μg/m³ Achievement based on annual 98th percentile of daily average, averaged over one year.
- PM₁₀: 50 µg/m³ Achievement based on the daily (24-hr) average.
- TSP: 120 μg/m³ Achievement based on the daily (24-hr) average.
- NO₂: 60 ppb Achievement based on annual 98th percentile of daily 1-hour average maximum (D1HM), averaged over three consecutive years.

Bold Italic numbers indicates that the 24-hour average for PM or one or more 1-hour maximum values for NO2 exceed the respective threshold values.

Table 2: Weekly Averages Summary – PM2.5, PM10, TSP and NO2

		1-hr	1-hr	Weekly	Trigger Limits (2/3 of	Time Above Trigger	Time Above AQO
Pollutant	units	Min	Max	average	the AQO)	Limit (Days)	(Days)
PM _{2.5}	$\mu g/m^3$	0	17	5.8	16.7 (24-hr avg)	0	0
PM_{10}	$\mu g/m^3$	4	49	12.0	33.3 (24-hr avg)	0	0
TSP	μg/m ³	5	88	17.7	80 (24-hr avg)	0	0
NO_2	ppb	0.0	33.4	10.1	40 (1-hr avg max)	0	0

Table 3: Summary of Meteorological Station Results

Date	Wind S _I	peed (m/s)	Ambi	ent Tempera	Total Precipitation	
Bate	Max	24-hr Avg	Min	Max	24-hr Avg	(mm)
28 Apr	4.9	1.1	7.8	12.0	9.9	6.4
29 Apr	6.1	1.1	7.8	15.4	10.7	1.2
30 Apr	6.4	1.6	7.1	16.8	11.5	0.0
1 May	8.1	1.2	7.1	18.8	12.9	0.0
2 May	10.6	1.8	8.9	22.4	14.5	3.0
3 May	12.6	3.6	6.7	15.0	11.1	6.6
4 May	6.7	1.5	4.5	17.0	10.2	0.0



Table 4: Passive SO ₂ and VOC Sampling								
Date	Swapped (COC) Submitted (Yes/No) (Yes/No)		Sample Submitted to AGAT Lab (Yes/No)	Lab Results Received (Yes/No)	Lab Results Summary or Comments			
28-Apr to 4-May	No	No	No	No	No sample swap or lab analysis was performed during this period.			

Note: This table mostly contains "No" entries because SO₂ and VOC passive samples are swapped on a monthly basis, and this reporting period may not coincide with the sampling schedule. Passive samples were swapped on April 1, 2025, and shipped to AGAT Labs.

On-Site Dust Observation Report and Work Activities Details

Dust Observation Report Summary:

For this report: No dust observation report was received for this period.

Work Activities Details:

According to the Daily Construction Reports from April 28 to May 4, construction activities included rock breaking in Areas 1100, 1200C, and 4100; excavation at the flare stack and 1100 Sump; and backfilling at CB5, P01–P02, and 1200D. Grading and granular placement were also conducted at the Flex Unit pad and 1300 roadway. Dust suppression measures, including dewatering and road watering, were ongoing.

Summary of Daily Reports and Action Taken									
Category	Details	Action Taken	Resolution Status / Anticipated						
			Completion Date						

			Completion Date
AQ Exceedances Report	No AQ exceedance was recorded during this Period.	No Action required.	Not Applicable.
AQ Complaints	No AQ complaint was received during this period.	No Action required.	Not Applicable.
Alerts from the AQMS	No alarms or instrument break-down was reported from AGAT during this period.	No Action required.	Not Applicable.
Changes to the Monitoring Network	No changes to the monitoring network during this period.	Not Applicable.	Not Applicable.
Changes to Mitigation Measures	No changes to mitigation measures during this period.	Not Applicable.	Not Applicable.

In summary, all instruments operated as intended, successfully collecting air quality data throughout the reporting period. No air quality exceedances of the British Columbia Air Quality Objectives were recorded, and no further investigation was required.

Appendix E Passive SO₂ and VOC Samples – Lab Analysis Report





3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

CLIENT NAME: STANTEC CONSULTING LTD 100-75 24TH STREET EAST SASKATOON, SK S7K 0K3

ATTENTION TO: Dan Jarratt/Kashif Choudhry

PROJECT: Woodfibre LNG

AGAT WORK ORDER: 25C289887

AIR QUALITY MONITORING REVIEWED BY: Bithi Nahar, Lab Technician

DATE REPORTED: May 23, 2025

PAGES (INCLUDING COVER): 6 VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (403) 299-2000

*Notes			

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may
 incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may
 be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other
 third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the
 services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of
 merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines
 contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

AGAT Laboratories (V1)

Page 1 of 6

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Western Enviro-Agricultural Laboratory Association (WEALA) Environmental Services Association of Alberta (ESAA) AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.



Air Quality Summary

AGAT WORK ORDER: 25C289887

PROJECT: Woodfibre LNG

3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

CLIENT NAME: STANTEC CONSULTING LTD

SAMPLING SITE:

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

Parameter	Unit	Number of Samples	Peak Reading	Network Average
bient Sulfur Dioxide	ppbv	2	0.2	0.2
Ambient VOC as Hexane	ppbv	2	<0.7	<0.7



Certificate of Analysis

AGAT WORK ORDER: 25C289887

PROJECT: Woodfibre LNG

3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

CLIENT NAME: STANTEC CONSULTING LTD

SAMPLING SITE:

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

				Pass	ive Air Qualit	y Sampling
DATE RECEIVED: 2025-05-09						DATE REPORTED: 2025-05-23
				Site#01/	Site#01/	
				01Apr/25,09:00	01Apr/25,09:00	
				02May/25,13:45	02May/25,13:45	
		SAMPLE DESC	RIPTION:	/SO2	/TVOC	
		SAMPI	E TYPE:	FILTER	FILTER	
		DATE SA	AMPLED:			
Parameter	Unit	G/S	RDL	6728448	6728451	
Ambient Sulfur Dioxide	ppbv		0.2	0.2	-	
Ambient VOC as Hexane	ppbv		0.7	-	<0.7	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6728448-6728451 All samples are field blank subtracted. Analysis performed at AGAT Calgary (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 25C289887

PROJECT: Woodfibre LNG

3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

CLIENT NAME: STANTEC CONSULTING LTD

SAMPLING SITE:

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLED BY:

				Pass	sive Quality	Assurance)	
DATE RECEIVED: 2025-05-09								DATE REPORTED: 2025-05-23
				Site#01/DUP	BLANK/	Site#01/DUP	BLANK/	
				01Apr/25,09:00	01Apr/25,09:00	01Apr/25,09:00	01Apr/25,09:00	
				02May/25,13:45	02May/25,13:45	02May/25,13:45	02May/25,13:45	
		SAMPLE DESCR	RIPTION:	/SO2	/SO2	/TVOC	/TVOC	
		SAMPL	E TYPE:	FILTER	FILTER	FILTER	FILTER	
		DATE SA	MPLED:					
Parameter	Unit	G/S	RDL	6728449	6728450	6728452	6728453	
Ambient Sulfur Dioxide	ppbv		0.2	0.2	<0.2	-	-	
Ambient VOC as Hexane	ppbv		0.7	-	-	<0.7	<0.7	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Calgary (unless marked by *)

Certified By:





3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

Quality Assurance

CLIENT NAME: STANTEC CONSULTING LTD

AGAT WORK ORDER: 25C289887

PROJECT: Woodfibre LNG

ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLING SITE: SAMPLED BY:

SAMI LING SITE.										' ' -					
			Air	Qua	lity N	Лonit	oring	l							
RPT Date: May 23, 2025				DUPLICAT	Έ		REFERE	NCE MA	TERIAL	METHOD	BLAN	SPIKE	MAT	RIX SPI	IKE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured		ptable nits	Recovery	1 1 1	ptable nits	Recovery	Lie	eptable mits
		ld	·				Value	Lower	Upper	ĺ	Lower	Upper	ĺ	Lower	Upper
Passive Air Quality Sampling															
Ambient Sulfur Dioxide	252	6728449	0.2	0.2	NA	<0.2	103%	90%	110%	104%	80%	120%	103%	80%	120%
Ambient VOC as Hexane	185	6728452	< 0.7	< 0.7	NA	< 0.7	83%	60%	140%	110%	60%	140%			

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated. Sample spikes and duplicates are not from the same sample.

Certified By:





3650 – 21 Street NE CALGARY, ALBERTA CANADA T2E 6V6 TEL (403)299-2000

http://www.agatlabs.com

Method Summary

CLIENT NAME: STANTEC CONSULTING LTD AGAT WORK ORDER: 25C289887

PROJECT: Woodfibre LNG ATTENTION TO: Dan Jarratt/Kashif Choudhry

SAMPLING SITE: SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Air Quality Monitoring			
Ambient Sulfur Dioxide	AQM-43-16007	Inhouse Method	ION CHROMATOGRAPH
Ambient VOC as Hexane	IHF-60-25003	Modified NIOSH-1500,1501,1003	GC/MS



Have feedback? Scan here for a quick survey!

3700, 21st Street NE Calgary, AB T2E 6V6 P: 403,299,2158 webalr.agatlabs.com

188 AGAT Job Number: 9557289 **Laboratory Use Only** Notes:

Chain of C	Chain of Custody Record										
Report Information		Invoice To		Same Yes □ / No □	Turnaround Time Required (TAT)						
Company: Stantec	pa;	Company: Stantec	Stantec		Regular TAT ☑ 5 to 7 working days						
Contact: Kashif Choudhry	if Choudhry	Contact:	accounts.payable.invoices@stantec.com	es@stantec.com	Rush TAT						
Address: 255	255 - 2nd Avenue North	Address:	255 - 2nd Avenue North	th	☐ 24 to 48 hours						
Saska	Saskatoon, Saskatchewan, S7K 3P2		Saskatoon, Saskatchewan, S7K 3P2	n, S7K 3P2	48 to 72 hours						
Phone: 306-7	306-717-2435 Fax:	Phone:	306-717-2435 Fa	Fax:	Date Required:					ЭΛ	
LSD:		PO/AFE#:	PO/AFE#: 123222160-12-2025.200		UPON FILLING OUT THIS SECTION, THE CLIENT ACCEPTS THAT SURCHARGES						24
Client Project #	Client Project #; 123222160-12-2025.200				WILL BE ATTACHED TO THIS ANALYSIS. IF NOT COMPLETED, REGULAR TAT WILL BE DEFAULT.					_	
LABORATORY USE (LAB ID #)	SITE NAME/SAMPLE DESCRIPTION	NOI	DATE/TIME INSTALLED	DATE/TIME EXTRACTED	COMMENTS - SITE SAMPLE INFO. SAMPLE CONTAINMENT	HZS Pass	NO2 Pass risss9 E0	PM2.5	OTM9	Duplicate	AOC b ^{sz} B ^s uk - 20
	Please Email reports to:										
	kashif.choudhry@stantec.com										
	dan.jarratt@stantec.com										
	katie.chuen@stantec.com								-		-
									-		
	WLNG-SO2-AQMS		Apr 1,7625	May 2,7025					+		
	WLNG-SO2-DUPLICATE		SOOK!	18:48 HI						<u> </u>	
	WLNG-SO2-BLANK										<u> </u>
	WLNG-VOC-AQMS										D
	WLNG-VOC-DUPLICATE		()								
	WLNG-VOC-Blank		>	7)					-		-
											+
											-
											-
									_		

Blank - VOC Passive

Duplicate - VOC Passive

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Any and all products and/or services provided by AGAT Labs are pursuant to the terms and conditions as set forth at www.agattabs.com/termsandconditions unless otherwise agreed in a current written contractual document.

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Document #: DIV-43-1500 005

Date Revised Nov 11, 2024

Nº: 05072

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