# APPENDIX H

# Air Quality and Greenhouse Gas Assessment

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# Hunter Valley Operations Continuation Project

## Air Quality and Greenhouse Gas Assessment

Final | Revision 3

9 November 2022

HV Operations Pty Limited

EMM Consulting Pty Ltd

# Hunter Valley Operations Continuation Project

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## Acronyms and definitions

| Abbreviation | Definition |
|---|---|
| BoM | Bureau of Meteorology |
| CALMET | Meteorological model for the CALPUFF air dispersion model |
| CALPUFF | Computer-based air dispersion model |
| CSIRO | Commonwealth Scientific and Industrial Research Organisation |
| DA | Development Approval |
| DEC | Department of Environment and Conservation |
| DPE | Department of Planning and Environment (formerly Department of Planning, Industry and Environment or DPIE) |
| EPA | NSW Environment Protection Authority |
| EPL | Environment Protection Licence |
| GHG | Greenhouse gas |
| HVAS | High volume air sampler |
| HVO | Hunter Valley Operations |
| HVO Complex | Hunter Valley Operations North and South operations |
| HVO JV | Hunter Valley Operations Joint Venture comprising Glencore and Yancoal which own HVO and associated assets |
| Jacobs | Jacobs Group (Australia) Pty Limited |
| MIA | Mine Infrastructure Area |
| Mtpa | Million tonnes per annum |
| NGER | National Greenhouse Gas and Energy Reporting |
| NEPM | National Environment Protection Measure |
| NEPC | National Environment Protection Council of Australia |
| $NO_2$ | Nitrogen dioxide |
| NPI | National Pollutant Inventory |
| OEH | Office of Environment and Heritage, now part of the Department of Planning, Industry and Environment as Environment, Energy and Science |
| PA | Project Approval |
| $PM_{2.5}$ | Particulate matter with equivalent aerodynamic diameters less than 2.5 microns |
| $PM_{10}$ | Particulate matter with equivalent aerodynamic diameters less than 10 microns |
| POEO Act | *Protection of the Environment Operations (POEO) Act 1997* |
| ROM | Run-of-mine |
| SSD | State Significant Development |
| TAPM | The Air Pollution Model – a meteorological and air dispersion model developed by CSIRO |
| TEOM | Tapered Element Oscillating Microbalance |
| TSF | Tailings storage facility |
| TSP | Total suspended particulate matter |
| VLAMP | Voluntary Land Acquisition and Mitigation Policy (NSW Government) |

# Executive Summary

HV Operations Pty Ltd (HVO) is proposing the continuation of open cut mining beyond the current approved extent, depth and life at the Hunter Valley Operations North and South mines (HVO Complex). The proposal is referred to as the HVO Continuation Project (the Project). Approval is sought under Part 4, Division 4.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). This report provides an assessment of the potential air quality and greenhouse gas impacts of the Project.

The air quality assessment involved identifying the key air quality issues, characterising the existing environment, quantifying emissions to air and modelling the potential impact of the Project on local air quality. The modelling was carried out in accordance with the assessment procedures prescribed by the NSW Environment Protection Authority (EPA). Greenhouse gas emissions were estimated in accordance with the principles of the Greenhouse Gas Protocol.

The key air quality issues were identified as construction dust, operational dust, operational post-blast fume and operational diesel exhaust. These issues were the focus of the assessment.

A detailed review of the existing environment was carried out including an analysis of historically measured concentrations of key quality indicators from representative monitoring stations. This review included an analysis of site-specific monitoring data. The following conclusions were made in relation to the existing environment:

- Meteorological conditions do not vary significantly from year to year, except for rainfall, and conditions in 2014 were identified as most representative of the long term, local conditions around the HVO Complex. Consideration of an alternative representative meteorological year did not change the assessment outcomes.
- Air quality conditions are strongly correlated to the climatic conditions. For example, there was a deterioration in air quality conditions between 2017 and early 2020 that were heavily influenced by drought, dust storms and bushfires. These conditions were not unique to the Hunter Valley.

The key outcomes of the modelling and subsequent assessment are:

- Construction activities have the potential to increase the overall dust emissions in the early phase of the Project (that is, first one to three years) but these increases are not of a magnitude that will change the air quality outcomes determined for private sensitive receptors from modelling of operational dust emissions. Nevertheless, appropriate management and monitoring would need to continue during the construction phase.
- Operational dust emissions due to the ongoing mining activities are not expected to cause adverse air quality impacts at the nearby local communities. Modelling potential impacts led to the following specific outcomes:
  - Maximum 24-hour average $PM_{10}$ concentrations would be within the range of historically measured days above the criteria, excluding extraordinary events. The review of recent and historical air quality monitoring data showed that, in the representative year, all monitoring locations recorded between one and six days above the air quality criteria set by the EPA for project assessment purposes. Based on the modelling the Project is not anticipated to change this outcome. The potential for the Project activities to cause exceedances of the criteria can be managed through existing site air quality management measures and this approach has been successfully demonstrated by the site compliance history.
  - Annual average $PM_{10}$ concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights, however an increased air quality impact risk was identified for one property in Jerrys Plains (308) in the later years of the Project (around Year 11). The modelled non-compliance with EPA assessment criteria at this property was determined as “unlikely to eventuate” based on (1) historical monitoring in this area that show $PM_{10}$ concentrations 25% lower than the criteria (2) modelled maximum proposed coal extraction rates and (3) a conservative approach to modelling operational controls.

- Maximum 24-hour average $PM_{2.5}$ concentrations would be within the range of historically measured days above the criteria, excluding extraordinary events. The review of recent and historical air quality monitoring data showed that, in the representative year, all monitoring locations recorded between one and two days above the air quality criteria. Based on the modelling the Project is not anticipated to change this outcome.
- Annual average $PM_{2.5}$ concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights, however an increased air quality impact risk was identified for one property in Jerrys Plains (308) in the later years of the Project (around Year 11).
- Annual average TSP concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights. That is, the Project would not be the cause of exceedances.
- Annual average deposited dust levels would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights. That is, the Project would not be the cause of exceedances.
- Dust concentrations and deposition levels would comply with NSW Government Voluntary Land Acquisition and Mitigation Policy criteria at all private sensitive receptors not subject to existing air quality acquisition rights however there is potential for criteria (annual average $PM_{10}$ and $PM_{2.5}$) to be exceeded on up to two privately owned properties.

- Operational post blast fume emissions are not expected to result in any adverse air quality impacts (as nitrogen dioxide and odour), based on modelling which showed compliance with EPA air quality assessment criteria.
- Operational diesel exhaust emissions associated with off-road vehicles and equipment are not expected to result in any adverse air quality impacts, based on modelling which showed compliance with EPA air quality assessment criteria.
- The estimated annual average Scope 1 and 2 greenhouse gas emissions from the Project represent approximately 0.25% of Australia's 2020 emissions. Coal produced by HVO is predominantly exported to countries which are either signatories to the Paris Agreement and / or have announced or adopted domestic laws or policies to achieve their emissions targets. Whilst emissions from the end use of the coal have been calculated as Scope 3 emissions for the purposes of the Project assessment, the HVO customers account for these same emissions as Scope 1 emissions and are required to comply with their respective countries' emissions targets.
- HVO is actively engaged in minimising greenhouse gas emissions associated with their coal operations and supporting the NSW Government objectives of net-zero emissions by 2050.
- HVO will continue to implement air quality and greenhouse gas emission management measures that are consistent with best practice for the industry. In addition, the existing air quality trigger levels will be reviewed to make sure these will mitigate the potential air quality risks, particularly in the Jerrys Plains area.
- A review of the existing air quality monitoring locations will be undertaken prior to the commencement of the Project to make sure that the monitoring network provides adequate coverage of the Project area and recognises the potential air quality impacts from this assessment. Any changes to the monitoring network will also be included in a revised Air Quality and Greenhouse Gas Management Plan.

The conclusions outlined above are consistent with the desired performance outcome for the Project which is to minimise air quality and greenhouse gas impacts to reduce risks to human health and the environment to the greatest extent practicable through the design, construction and operation of the Project.

## Important note about your report

The sole purpose of this report and the associated services performed by Jacobs is to quantify the potential air quality and greenhouse gas impacts of the Hunter Valley Operations Continuation Project in accordance with the scope of services set out in the contract between Jacobs and the Client. That scope of services, as described in this report, was developed with the Client.

In preparing this report, Jacobs has relied upon, and presumed accurate, any information (or confirmation of the absence thereof) provided by the Client and/or from other sources. Except as otherwise stated in the report, Jacobs has not attempted to verify the accuracy or completeness of any such information. If the information is subsequently determined to be false, inaccurate or incomplete then it is possible that our observations and conclusions as expressed in this report may change.

Jacobs derived the data in this report from information sourced from the Client (if any) and/or available in the public domain at the time or times outlined in this report. The passage of time, manifestation of latent conditions or impacts of future events may require further examination of the Project and subsequent data analysis, and re-evaluation of the data, findings, observations and conclusions expressed in this report. Jacobs has prepared this report in accordance with the usual care and thoroughness of the consulting profession, for the sole purpose described above and by reference to applicable standards, guidelines, procedures and practices at the date of issue of this report. For the reasons outlined above, however, no other warranty or guarantee, whether expressed or implied, is made as to the data, observations and findings expressed in this report, to the extent permitted by law.

This report should be read in full and no excerpts are to be taken as representative of the findings. No responsibility is accepted by Jacobs for use of any part of this report in any other context.

This report has been prepared on behalf of, and for the exclusive use of, Jacobs's Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this report by any third party.

# 1. Introduction

## 1.1 Background

Hunter Valley Operations Pty Ltd is proposing the continuation of open cut mining beyond the current approved extent, depth and life at the Hunter Valley Operations North and South mines (HVO Complex). The proposal is referred to as the HVO Continuation Project (the Project). Approval is sought under Part 4, Division 4.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). This report provides an assessment of the potential air quality and greenhouse gas impacts of the Project.

## 1.2 Existing Operations

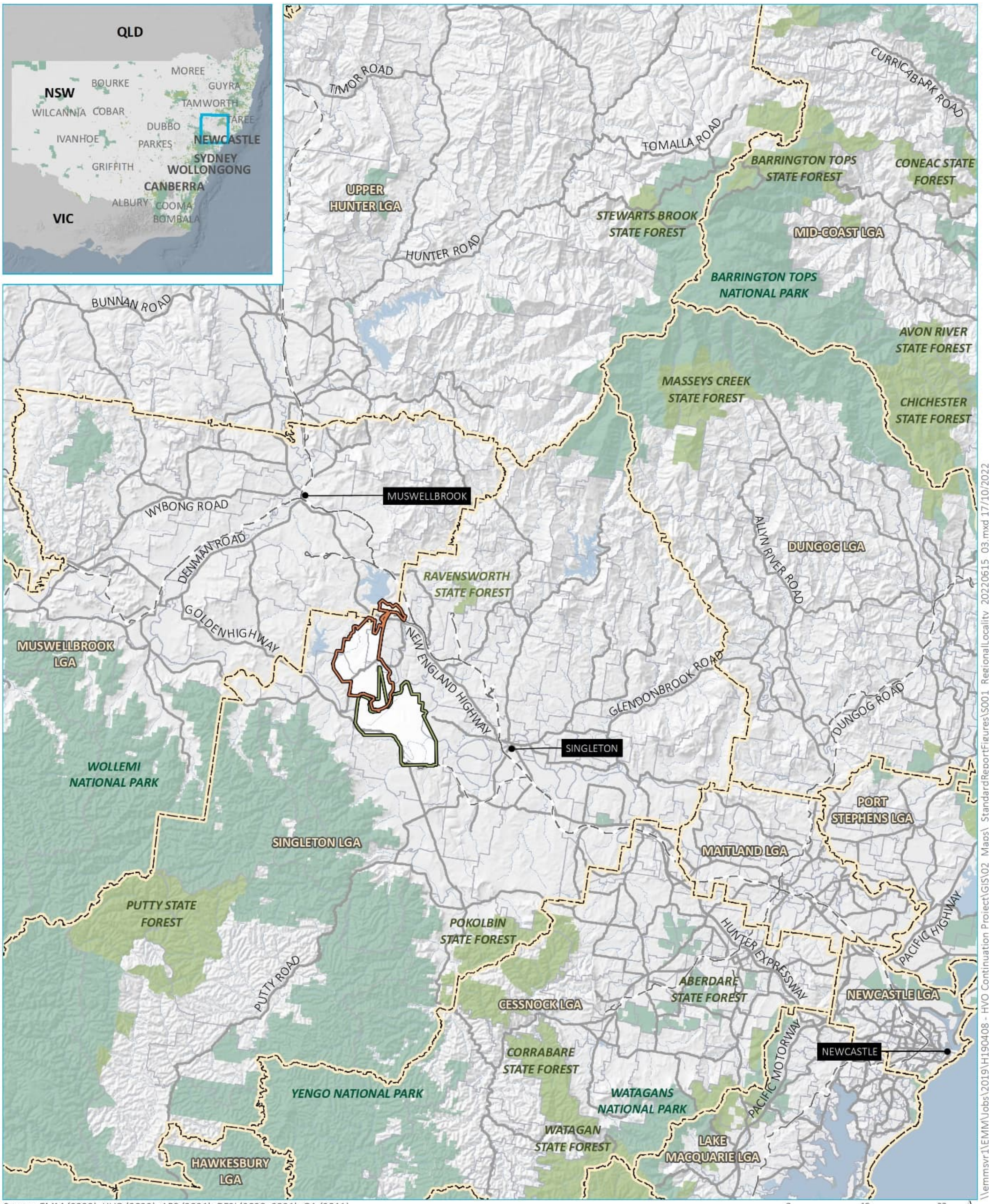
HVO is a multi-pit open cut mining complex approximately 24 kilometres (km) north-west of Singleton in the Hunter Valley of New South Wales (NSW) (**Figure 1**). HVO comprises two mine sites separated by the Hunter River, HVO North and HVO South. While the two mine sites are approved under separate development consents, they are operated as one complex with fully integrated environmental management systems.

The existing HVO North operation comprises the approved mining areas of West Pit, Mitchell Pit and Carrington Pit, as shown in **Figure 2**. It operates under development consent DA 450-10-2003 which allows extraction of up to 22 million tonnes per annum (Mtpa) of run-of-mine (ROM) coal until 12 June 2025.

HVO South operates under Project Approval (PA) 06_0261 and comprises the approved mining areas of Riverview Pit and Cheshunt Pit, where mining activities currently take place, and the Riverview South East Extension and South Lemington Pits 1 and 2. PA 06_0261 allows the extraction of up to 20 Mtpa of ROM coal until 24 March 2030.

Mining across HVO is undertaken using dragline and truck and shovel methods. ROM coal from HVO North and South is currently processed at the Hunter Valley (HV) Coal Preparation Plant (CPP) and/or the Howick CPP (both at HVO North), from which product coal is predominantly transported via overland conveyor to the HV load point (HVLP) or Newdell LP and via rail to the Port of Newcastle for export. The Lemington CPP (LCPP) and associated rail loop, which is approved under PA 06_0261 and would process and rail coal from HVO South, is yet to be constructed.

HVO is owned by subsidiary companies of Yancoal and Glencore, as participants in the unincorporated HVO Joint Venture (JV). HV Operations Pty Ltd is the appointed manager of the JV.




Source: EMM (2022); HVO (2022); ABS (2021); DFSI (2020, 2021); GA (2011)

0 10 20 km
GDA2020 MGA Zone 56
N

KEY
- Existing HVO North development consent boundary (DA 450-10-2003)
- Existing HVO South project approval boundary (PA 06-0261)
- Rail line
- Major road
- Named watercourse
- Named waterbody
- Suburb boundary
- Local government area
- NPWS reserve
- State forest

Locality plan

Hunter Valley Operations
HVO Continuation Project
Figure 1

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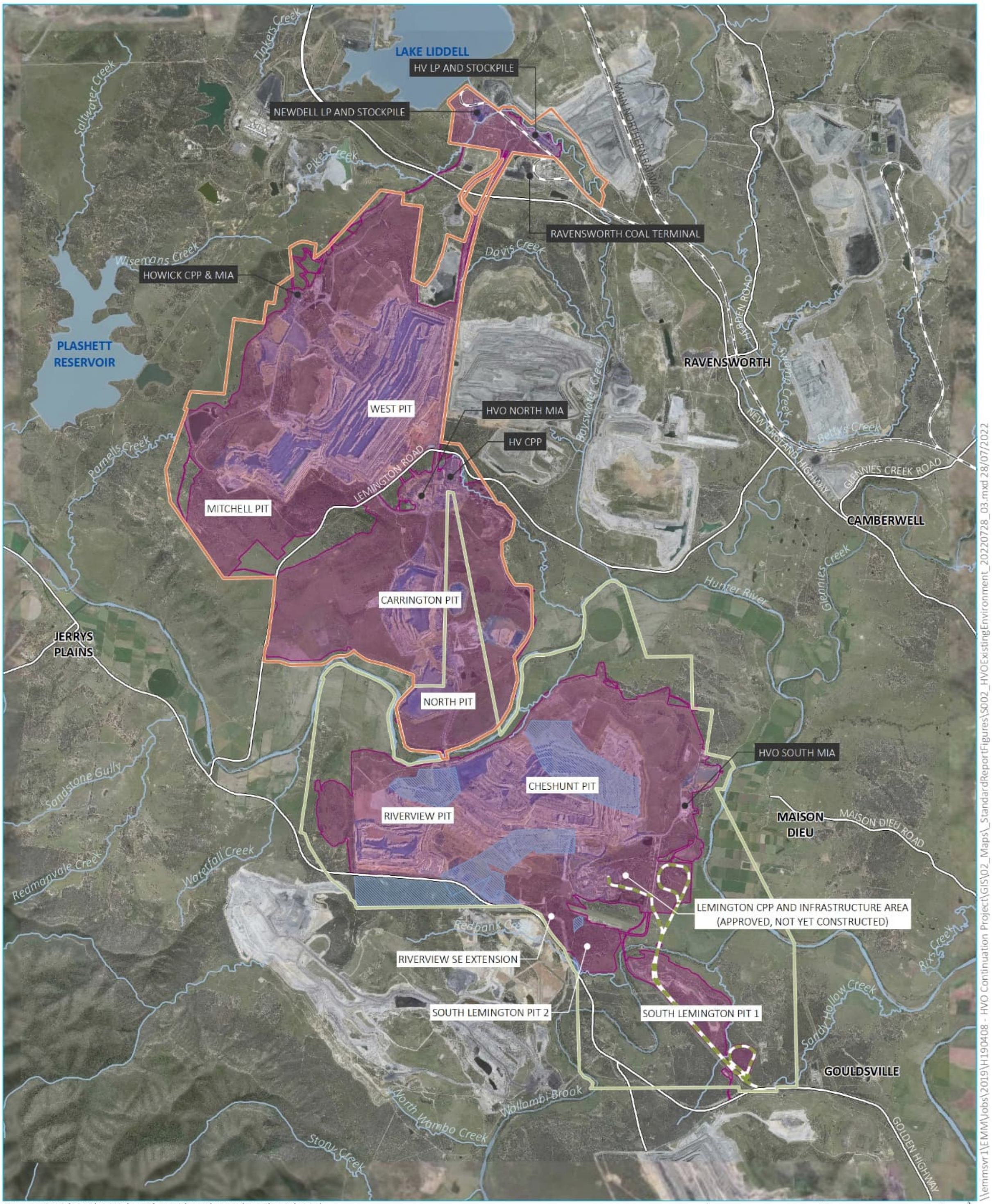
Figure 1 Location of the HVO Complex




Source: EMM (2022); HVO (2022); ESRI (2022); DFSI (2017); GA (2011)

0 2.5 5 km
GDA2020 MGA Zone 56 N

KEY

- Existing HVO North development consent boundary (DA 450-10-2003)
- Existing HVO South project approval boundary (PA 06-0261)
- Existing and approved disturbance area
- Approved highwall mining area
- South Lemington Rail Loop and haul route (approved, not yet constructed)

Existing environment

- Rail line
- Major road
- Named watercourse
- Named waterbody

HVO existing environment

Hunter Valley Operations
HVO Continuation Project
Figure 2

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Figure 2 Components of the existing HVO Complex

## 1.3 Project Description

The HVO Continuation Project (the Project) broadly comprises the continuation of the life of HVO North and HVO South, from the current approved mining completion dates of 2025 and 2030 respectively, to the end of 2050 at HVO North and 2045 at HVO South. The continuation of mining across the HVO Complex will increase resource recovery from the existing operation, predominantly by mining through previously mined areas and to the extent of existing mining tenements and extracting coal from deeper seams at HVO North.

At HVO South an extension to the life of the mine is proposed to facilitate improved mine sequencing outcomes and reduction in mining rate. The Project proposes a reduced mining footprint at HVO South compared to what is approved for extraction, with the previously approved coal extraction in the Riverview South East Extension area and South Lemington Pits 1 and 2 proposed to be removed from mine plan (and future approvals) for the Project. However, some rehabilitation works will be required to be undertaken in the South Lemington Pit 1 area, as part of the mine closure process. The approved shorter rail loop option associated with the LCPP has also been removed from the Project.

A number of infrastructure upgrades and changes are also required to facilitate the Project (and are included as part of it), including realignment of part of Lemington Road, relocation of transmission and telecommunication lines, an upgrade of the Newdell LP including construction of a new product stockpile and train loading bin, an upgrade of the HVLP product stockpile including an extension to the existing coal stockpile, and improvements to Lake James and Parnells Dam.

To enable the Project to proceed, two new State significant development (SSD) consents are required; one for HVO North and one for HVO South, under Part 4, Division 4.1 of the EP&A Act. The Project will seek to maintain separate development consents for HVO North and South, as is currently the case. Given that the two mine sites operate as one complex, one Environmental Impact Statement (EIS) has been prepared to support the two development applications required for the Project.

This air quality and greenhouse gas assessment forms part of the EIS and provides an assessment of the potential impacts of the Project. It also assesses the potential incremental impacts of the continuation of HVO North and HVO South given separate development consents are being sought for each operation. It documents the assessment methods and results, initiatives to avoid and minimise air quality and greenhouse gas impacts and additional mitigation and management measures proposed to address residual impacts not able to be avoided.

The project description is provided in Chapter 4 of the EIS (EMM, 2022). The key components of the Project as they relate to HVO North and HVO South are individually listed below. The proposed conceptual layout of the Project, inclusive of both HVO North and South, is provided in **Figure 3**.

The key changes proposed by the Project to the approved HVO North operations include:

- an extension to the life of the mine until the end of 2050;
- extraction of coal to the base of the Barrett seam across the HVO North mining area. Existing operations are approved to extract coal to the base of the Barrett seam in the West Pit; however, are only approved to the base of the shallower Bayswater seam in Carrington Pit;
- extraction of an additional approximate 400 Million tonnes (Mt) of run of mine (ROM) coal through the extraction of coal from deeper seams and a small increase in the mining extent (between the existing West and Mitchell Pits and Carrington Pit);
- infrastructure upgrades, as listed below:
  - realignment of Lemington Road and new bridge over the Hunter River. While the proposed realigned corridor is partly within the HVO South development consent boundary, the realignment is required to enable the progression of mining from the Mitchell and West pits into the Carrington area at HVO North. The works associated with the road realignment therefore form part of the HVO North Project;

- HVO North site access road relocation off the existing Lemington Road;
- an increase in the capacity of Parnell's Dam from approximately 1 gigalitres (GL) to 4 GL;
- realignment of transmission and telecommunication lines that are currently within the proposed mining footprint;
- HVO North Mine Infrastructure Area (MIA) upgrade;
- ancillary activities as required to facilitate operations;
- access roads to facilitate service provider access;
- use of demountable/temporary buildings in construction compounds as required;
- upgrade of the existing Newdell LP train loading facility and construction of a new product stockpile; or
- extension of the HVLP product coal stockpile, including the closure of a section of Liddell Station Road.

- coal haulage from the HVCPP to the Ravensworth ROM pad, via internal haul roads;
- revised tailings management strategy;
- amendments to the approved final landform;
- progressive rehabilitation throughout the mine life; and
- changes to the development consent boundary to incorporate the changes listed above.

Other than as set out above, all activities that are currently approved under the existing HVO North approval are intended to continue. Key aspects and outcomes of the approved development at HVO North that will remain the same under the Project include the following:

- the maximum allowable annual coal extraction and processing rate;
- annual operational workforce numbers and associated traffic generation;
- approved heights of overburden emplacement areas;
- receipt of ROM coal from HVO South via internal haul roads for processing at all CPP facilities approved for HVO North;
- continued avoidance of the Aboriginal heritage site known as Carrington Mine - Colluvial Deposit 1 (CM-CD1); and
- the ridge between Jerrys Plains and HVO North will remain, continuing to provide an effective amenity barrier.

The key changes proposed by the Project to the existing approved operations at HVO South include:

- an extension of the life of the mine until the end of 2045;
- a reduction in the approved maximum ROM coal extraction rate from 20 Mtpa to 18 Mtpa;
- changes to the approved mine sequencing (although noting that mining within the two primary open cut pits; Riverview and Cheshunt, will remain generally within the same footprint as approved);
- removal of coal extraction from the mine plan from the Riverview South East Extension, South Lemington Pit 1 and South Lemington Pit 2 mining areas;
- infrastructure upgrades and changes to that currently approved, as listed below:
    - removal of the LCPP short rail loop option;
    - removal of the approved conveyor from HVO South to the HVCPP at HVO North (the conveyor has not been constructed);
    - construction of the Cheshunt and Riverview flood protection levees;
    - realignment of transmission lines;

  - enlargement of Lake James from approximately 0.7 GL to 2 GL;
  - additional tailings pipelines and pumps;
  - ancillary activities as required to facilitate operations;
  - access roads to facilitate service provider access; and
  - use of demountable/temporary buildings in construction compounds as required.
- revision and implementation of the tailings strategy; and
- amendments to final landform due to rescheduling and or infrastructure relocations, progressive rehabilitation will be undertaken throughout the mine life.

Other than as set out above, all activities that are currently approved under the existing HVO South approval are intended to continue. Key aspects of the approved development at HVO South that will remain the same under the Project include the following:

- the coal seams to be extracted (i.e. no increase in the depth of mining);
- the extent of approved mining areas within the Riverview and Cheshunt Pits;
- approved heights of overburden emplacement areas;
- construction of the LCPP and associated rail loop (long option only);
- transfer of coal from HVO South to HVO North for processing; and
- annual workforce numbers and associated traffic generation.

The following key terms are used throughout this assessment to describe the Project:

- **HVO Complex –** comprises both HVO North and HVO South operations.
- **The Project –** the Project in its entirety, encompassing the continuation of the life of the complex; ie, both HVO North and HVO South, within their respective proposed development consent boundaries, as illustrated in **Figure 3**.
- **Project Area –** The area that is the subject of the two development applications, ie, the proposed development consent boundary for HVO North and the proposed development consent boundary for HVO South.
- **Existing and approved disturbance area –** Areas that are disturbed and/or approved to be disturbed under the current development consents that apply to the HVO Complex.
- **Approved mining area –** The areas within the approved disturbance area that have been previously assessed and approved under the NSW EP&A Act for mining operations.
- **Additional disturbance area –** The areas that will be disturbed by the Project that are outside of the existing and approved disturbance area.
- **Proposed mining area, HVO North –** Areas where coal extraction will take place for the Project at HVO North and includes:
  - areas already disturbed by mining that will be re-disturbed to facilitate coal extraction in the deeper Barrett seam;
  - areas not previously approved for mining (eg the area between the Mitchell Pit and Carrington Pit); and
  - areas approved but not yet disturbed (eg the Carrington West Wing area).
- **Proposed mining area, HVO South –** Comprises the Riverview Pit and Cheshunt Pit, where coal extraction will continue under the Project, down to the Bayswater seam.
- **Areas not carried forward –** The HVO South proposed mining footprint does not include the previously approved South Lemington Pit 1, South Lemington Pit 2, or the Riverview South East Extension, as coal

extraction is not proposed in these areas as part of the Project. However, rehabilitation activities will be required in some areas and form part of the Project.

- **Transmission line corridors –** Two categories of transmission line corridors have been defined for the purpose of quantifying the extent of disturbance for the Project:
  - realigned transmission lines (ie new transmission line easements) – the extent of disturbance will be limited to transmission line poles/towers and an access road for maintenance along the alignment, as well as vegetation management to maintain safe powerline clearance; and
  - existing transmission line easements to be decommissioned – disturbance will be confined to existing access tracks and cleared areas.
- **Realigned Lemington Road corridor –** The corridor extends from the Comleroi Road intersection with the Golden Highway at the southern end of the new alignment, along the Comleroi Road alignment around the south-eastern side of HVO South, and then extends in a northerly direction to join the existing Lemington Road at a point approximately 2.3 km south of the New England Highway/Lemington Road intersection. The corridor also allows for two options with respect to the connection to the Golden Highway; one assuming that the Golden Highway is realigned by United Wambo as approved under SSD 7142, and a second option that connects with the current alignment of the Golden Highway.
- **Project disturbance area –** this area is a combination of the additional disturbance area and the existing and approved disturbance area, minus the areas not being carried forward by the Project.

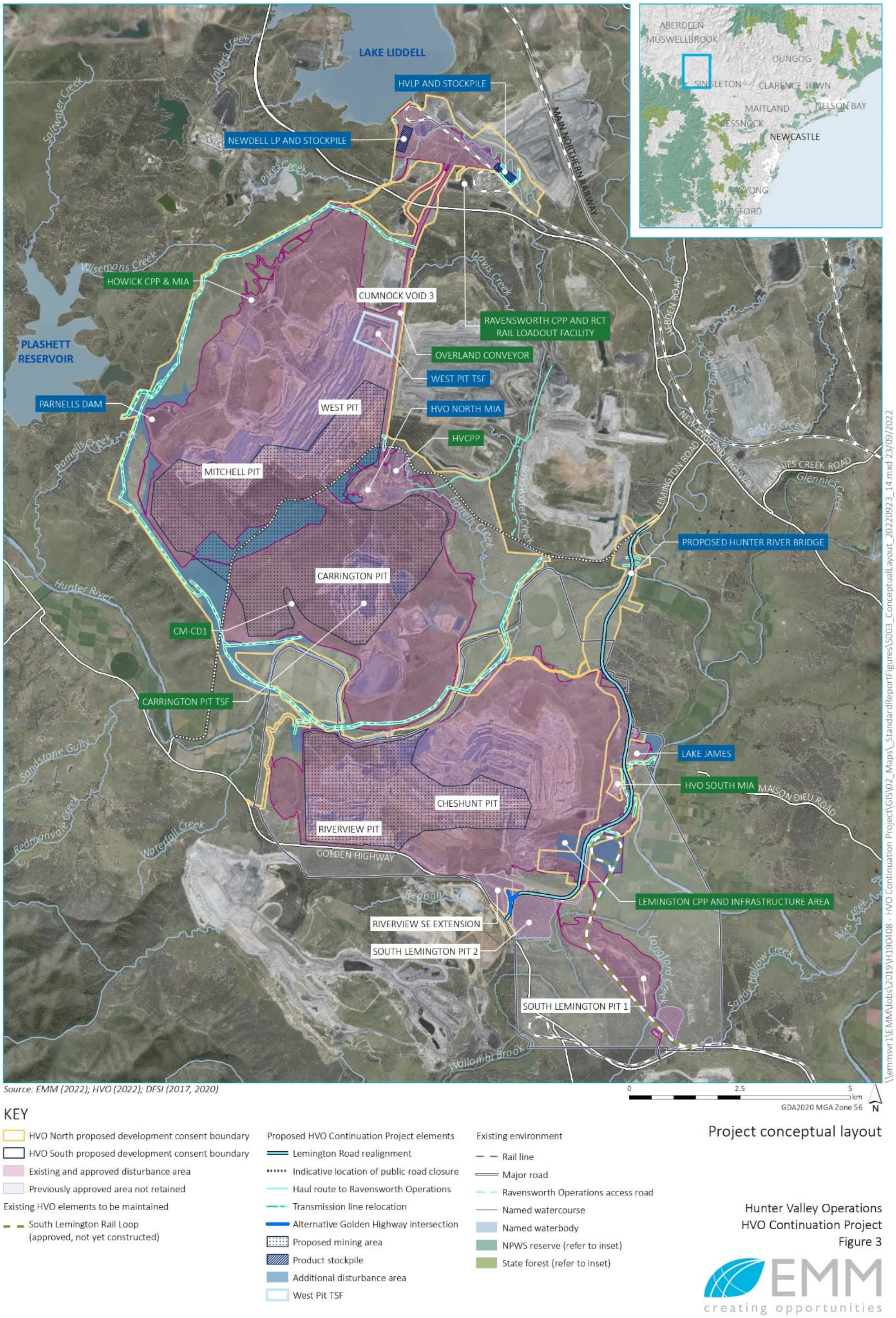



Figure 3 Proposed conceptual layout of the Project

## 1.4 Performance Outcome

The desired performance outcome for the Project relating to air quality and greenhouse gas is to minimise air quality and greenhouse gas impacts to reduce risks to human health and the environment to the greatest extent practicable through the design, construction, and operation of the Project.

## 1.5 SEARs and Relevant Guidelines

This air quality and greenhouse gas assessment has been prepared following the appropriate guidelines, policies and industry requirements, and following consultation with stakeholders including community members and relevant government agencies.

Guidelines and policies referenced in this assessment include:

- Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in NSW (EPA, 2022) (Approved Methods)
- Approved Methods for the Sampling and Analysis of Air Pollutants in NSW (EPA, 2022b)
- Coal Mine Particulate Matter Control Best Practice – Site Specific Determination Guideline (OEH, 2011)
- Generic Guidance and Optimum Model Settings for the CALPUFF Modelling System for Inclusion in the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (TRC, 2011)
- National Greenhouse Accounts Factors (DISER, 2021)
- Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Developments 2018 (DPIE, 2018)

This assessment has also been prepared in accordance with requirements of the NSW Department of Planning and Environment (DPE). These were set out in the Secretary's Environmental Assessment Requirements (SEARs) for the Project, issued on 11 March 2021. **Table 1** outlines the SEARs relevant to this assessment along with a reference to where these are addressed.

Table 1 SEARs relevant to air quality and greenhouse gas

| Secretary's requirement | Where addressed in this report |
|---|---|
| Air quality – including: | |
| - a detailed assessment of potential construction and operational air quality impacts, in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW, and with a particular focus on particulate matter ($PM_{2.5}$ and $PM_{10}$) emissions, and having regard to the Voluntary Land Acquisition and Mitigation Policy;<br>- Cumulative – including a detailed assessment of the cumulative impacts of the development, in combination with other existing and approved mining projects in the locality, with a particular focus on air quality, noise, traffic and social impacts, as well as impacts on water resources | Construction impacts are discussed in Sections 5.1 and 7.1.<br>Operational impacts are discussed in Sections 5.2 to 5.4 and Sections 7.2 to 7.5 including assessment in accordance with the Approved Methods and assessment against the VLAMP. |
| - an assessment of the likely greenhouse gas emissions of the development | Greenhouse gas emissions are discussed in Sections 3.2, 4.4, 5.5, 8 and 9.5. |

To inform the preparation of the SEARs, the DPE invited other government agencies to recommend matters to be addressed in the EIS. The NSW Environment Protection Authority (EPA) raised matters that are relevant to the air quality and greenhouse gas assessment. These matters raised are listed in **Table 2** and have been taken into account in preparing this assessment, as indicated in the table.

Table 2 Agency assessment recommendations relevant to air quality and greenhouse gas

| Agency | | Where addressed in this report |
|---|---|---|
| **Environment Protection Authority** | | |
| - | Identify the existing air quality environment and identify applicable air quality goals (i.e. ground level concentrations for pollutants and odour assessment criteria) in line with relevant guidance/standards; | Applicable criteria are outlined in Section 3.1.<br>The existing environment is discussed in Section 4. |
| - | Identify potential air quality and odour sources and impacts (including point source emissions from any site-based plant and equipment and/or fugitive dust or other emissions) during both construction and operational stages and identify best practice mitigation measures (pollution control) and strategies to minimise point and/or fugitive and/or odour emissions/impacts (with proposed timing), including monitoring, in line with relevant guidance/standards; and | Key air quality issues have been identified in Section 2.<br>Sources and emissions have been identified in Section 5.<br>Potential impacts have been discussed in Section 7.<br>Monitoring and management measures are outlined in Section 9. |
| - | Include an emission inventory of all sources of air emissions. | Included in Appendix D |

## 1.6 Report Structure

The report is structured as follows:

- **Section 1 –** Introduces the Project with a summary of the Project background, Project description, performance outcomes and SEARs.
- **Section 2 –** Identifies the key air quality and greenhouse gas issues to be addressed.
- **Section 3 –** Outlines the key legislative and policy assessment requirements for air quality and greenhouse gas.
- **Section 4 –** Discusses key features of the existing environment including surrounding land uses, sensitive receptors, and local meteorological and air quality conditions.
- **Section 5 –** Provides an overview of the methods used to assess the potential for air quality and greenhouse gas impacts.
- **Section 7 –** Provides an assessment of the potential construction and operational air quality impacts including potential cumulative impacts.
- **Section 8 –** Provides an assessment of the potential greenhouse gas emissions.
- **Section 9 –** Outlines the measures to mitigate or otherwise effectively manage and monitor potential impacts.
- **Section 10 –** Provides the conclusions of the assessment.

# 2. Key Issues

Air quality issues can arise when emissions from an industry or activity lead to deterioration in the ambient air quality. Potential air quality issues have been identified from a review of the Project and associated activities. This identification process has considered the types of emissions to air and proximity of these emission sources to sensitive receptors.

Emissions to air from the Project could occur from a variety of activities including material handling, material transport, processing and wind erosion from exposed areas. These emissions could occur in both the construction and operational phases of the Project.

The most commonly associated emission to air from open cut coal mining is dust, also referred to as particulate matter. Key classifications of particulate matter include:

- Total suspended particulates (TSP)
- Particulate matter with equivalent aerodynamic diameter of 10 microns or less ($PM_{10}$)
- Particulate matter with equivalent aerodynamic diameter of 2.5 microns or less ($PM_{2.5}$)
- Deposited dust

Plant and equipment exhausts also have the potential to generate emissions that include carbon monoxide (CO), oxides of nitrogen ($NO_x$) and particulate matter, and to a lesser extent sulphur dioxide ($SO_2$). Post-blast fume has the potential to generate $NO_x$ emissions which, in turn, can oxidise to the more harmful and odorous nitrogen dioxide ($NO_2$). Spontaneous combustion of coal also has the potential to cause odour and visible smoke issues.

The area around HVO contains various emission sources that will influence the local air quality. Consequently the potential cumulative impacts are an important issue to address.

The key issues for construction will be:

- Emissions of particulate matter (TSP, $PM_{10}$, $PM_{2.5}$ and deposited dust) including those from machinery exhausts
- Greenhouse gas emissions

The key issues for operation will be:

- Emissions of particulate matter (TSP, $PM_{10}$, $PM_{2.5}$ and deposited dust)
- Post-blast fume ($NO_2$) and odour
- Diesel exhaust ($PM_{10}$, $PM_{2.5}$ and $NO_2$)
- Odour and other substances, such as visible emissions or smoke / fine particulates, due to the potential spontaneous combustion of coal
- Greenhouse gas emissions

These issues are the focus of this assessment.

# 3. Policy Setting

## 3.1 Air Quality Criteria

Air quality is typically quantified by the concentrations of substances in the ambient air. Air pollution occurs when the concentration (or some other measure of intensity) of one or more substances known to cause health, nuisance and/or environmental effects, exceeds a certain level. With regard to human health and nuisance effects, the substances most relevant to the Project have been identified, from **Section 2**, as particulate matter in various forms and $NO_2$.

The existing development consents for HVO North (DA 450-10-2003) and HVO South (PA 06_0261) require HVO to *"ensure that all reasonable and feasible mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances"* of criteria for $PM_{10}$, $PM_{2.5}$, TSP and deposited dust. **Table 3** shows the existing development consent criteria. The existing Environment Protection Licence (EPL 640) for HVO does not include specific air quality limits but includes requirements to minimise dust emissions and to monitor air quality.

Table 3 Existing development consent criteria

| Air quality indicator | Averaging time | [d] Air quality criteria from DA 450-10-2003 (HVO North) | Air quality impact assessment criteria from PA 06_0261 (HVO South) |
|---|---|---|---|
| Particulate matter ($PM_{10}$) | 24 hour | [b] 50 µg/m³ | [b] 50 µg/m³ |
| | Annual | [a] 30 µg/m³ | [a d] 25 µg/m³ |
| Particulate matter ($PM_{2.5}$) | 24 hour | Nil | [b] 25 µg/m³ |
| | Annual | Nil | [a d] 8 µg/m³ |
| Particulate matter (TSP) | Annual | [a] 90 µg/m³ | [a d] 90 µg/m³ |
| [c] Deposited dust | Annual (maximum increase) | [b] 2 g/m²/month | Nil |
| | Annual (maximum total) | [a] 4 g/m²/month | Nil |

[a] *Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).*
[b] *Incremental impact (i.e. incremental increase in concentrations due to the development on its own).*
[c] *Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air – Determination of Particulate Matter – Deposited Matter – Gravimetric Method.*
[d] *Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed to by the Secretary.*

The EPA has developed criteria for a range of air quality indicators including particulate matter and $NO_2$ that are used for the assessment of specific projects such as the HVO Continuation Project. These criteria are outlined in the "Approved Methods for the Modelling and Assessment of Air Pollutants in NSW" (EPA, 2022), hereafter referred to as the Approved Methods. Most of the EPA criteria referred to in this report have been drawn from national standards for air quality set by the National Environment Protection Council of Australia (NEPC) as part of the National Environment Protection Measures (NEPMs) (NEPC, 2021).

The Project has been assessed in terms of its ability to comply with the air quality criteria set by the EPA as part of the Approved Methods. These criteria are outlined in **Table 4** and apply to existing and potentially sensitive receptors, where the Approved Methods defines a sensitive receptor as *"a location where people are likely to work or reside; this may include a dwelling, school, hospital, office or public recreational area"*. This definition has also been interpreted as places of near-continuous occupation.

Table 4 EPA air quality assessment criteria

| Air quality indicator | Averaging time | Assessment criterion* |
|---|---|---|
| Particulate matter ($PM_{10}$) | 24-hour | 50 µg/m$^3$ |
| | Annual | 25 µg/m$^3$ |
| Particulate matter ($PM_{2.5}$) | 24-hour | 25 µg/m$^3$ |
| | Annual | 8 µg/m$^3$ |
| Particulate matter (TSP) | Annual | 90 µg/m$^3$ |
| Deposited dust | Annual (maximum increase) | 2 g/m$^2$/month |
| | Annual (maximum total) | 4 g/m$^2$/month |
| Nitrogen dioxide ($NO_2$) | 1-hour | 164 µg/m$^3$ |
| | Annual | 31 µg/m$^3$ |

**Source: Table 11 of the Approved Methods.*

The EPA air quality assessment criteria relate to the total concentration of pollutants in the air (that is, cumulative) and not just the contribution from Project-specific sources. Therefore, some consideration of background levels needs to be made when using these criteria to assess the potential impacts. In situations where background levels are elevated the proponent must "*demonstrate that no additional exceedances of the impact assessment criteria will occur as a result of the proposed activity and that best management practices will be implemented to minimise emissions of air pollutants as far as is practical*" (EPA, 2022). **Section 4** provides further discussion of background levels.

In December 2015 the Australian Government announced a National Clean Air Agreement (Agreement). This Agreement aims to reduce air pollution and improve air quality via the following main actions:

- The introduction of emission standards for new non-road spark ignition engines and equipment.
- Measures to reduce air pollution from wood heaters.
- Strengthened ambient air quality reporting standards for particle pollution.

The strengthening of ambient air quality reporting standards for particle pollution is relevant to the Project. Specifically, and at the time, the following was agreed:

> *"Taking into account the latest scientific evidence of health impacts, Ministers agreed to strengthen national ambient air quality reporting standards for airborne fine particles. Ministers agreed to adopt reporting standards for annual average and 24-hour $PM_{2.5}$ particles of 8 µg/m$^3$ and 25 µg/m$^3$ respectively, aiming to move to 7 µg/m$^3$ and 20 µg/m$^3$ respectively by 2025. Ministers also agreed to establish an annual average standard for $PM_{10}$ particles of 25 µg/m$^3$. Victoria and the Australian Capital Territory will set, and South Australia will consider setting, a more stringent annual average $PM_{10}$ standard of 20 µg/m$^3$ in the state, while ensuring nationally consistent monitoring and reporting against the agreed National Environment Protection Measure standards. The decision was also taken to review $PM_{10}$ standards in 2018. The review will be co-led by the NSW and Victorian governments, in discussion with other jurisdictions."*

On 25 February 2016, an amendment to the Ambient Air Quality NEPM entered into force and introduced the new national air quality standards for $PM_{10}$ and $PM_{2.5}$, as noted above. The EPA subsequently revised its $PM_{10}$ and $PM_{2.5}$ assessment criteria as part of an update to the Approved Methods. These revised criteria are reflected in **Table 4** and took effect from 20 January 2017 onwards. There is currently no State legislation regarding the aim to move to more stringent $PM_{2.5}$ criteria by 2025. Accordingly, the Project is assessed against the current criteria detailed in the Approved Methods as these criteria would be applied by the consent authority in accordance with the provisions of Clause 12AB of the S*tate Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* (Mining SEPP) (2018 amendment).

The NSW Voluntary Land Acquisition and Mitigation Policy (NSW Government, 2018) (VLAMP) includes the NSW Government's policy for voluntary mitigation and land acquisition to address dust (particulate matter) impacts from State significant mining, petroleum and extractive industry developments. The VLAMP brings the air quality criteria in line with the NEPM standards and EPA assessment criteria.

From the VLAMP, voluntary mitigation rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in **Table 5** at any residence or workplace on privately owned land.

Table 5 VLAMP mitigation criteria for particulate matter

| Air quality indicator | Averaging time | Mitigation criterion | Impact type |
|---|---|---|---|
| Particulate matter ($PM_{10}$) | 24-hour | 50 µg/m$^3$ ** | Human health |
| | Annual | 25 µg/m$^3$ * | Human health |
| Particulate matter ($PM_{2.5}$) | 24-hour | 25 µg/m$^3$ ** | Human health |
| | Annual | 8 µg/m$^3$ * | Human health |
| Particulate matter (TSP) | Annual | 90 µg/m$^3$ * | Amenity |
| Deposited dust | Annual (maximum increase) | 2 g/m$^2$/month ** | Amenity |
| | Annual (maximum total) | 4 g/m$^2$/month * | Amenity |

** Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).*
*** Incremental impact (i.e. increase in concentrations due to the development alone), with **zero allowable exceedances** of the criteria over the life of the development.*

Voluntary acquisition rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in **Table 6** at any residence or workplace on privately owned land, or on more than 25% of any privately owned land where there is an existing dwelling or where a dwelling could be built under existing planning controls.

Table 6 VLAMP acquisition criteria for particulate matter

| Air quality indicator | Averaging time | Acquisition criterion | Impact type |
|---|---|---|---|
| Particulate matter ($PM_{10}$) | 24-hour | 50 µg/m$^3$ ** | Human health |
| | Annual | 25 µg/m$^3$ * | Human health |
| Particulate matter ($PM_{2.5}$) | 24-hour | 25 µg/m$^3$ ** | Human health |
| | Annual | 8 µg/m$^3$ * | Human health |
| Particulate matter (TSP) | Annual | 90 µg/m$^3$ * | Amenity |
| Deposited dust | Annual (maximum increase) | 2 g/m$^2$/month ** | Amenity |
| | Annual (maximum total) | 4 g/m$^2$/month * | Amenity |

** Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).*
*** Incremental impact (i.e. increase in concentrations due to the development alone), with up to **five allowable exceedances** of the criteria over the life of the development.*

The particulate matter levels for comparison with the criteria in **Table 5** and **Table 6** must be calculated in accordance with the Approved Methods.

## 3.2 Greenhouse Gas

Greenhouse gases (GHG) is a collective term for a range of trace gases that are known to absorb terrestrial infrared radiation in the atmosphere, where they cause a planetary greenhouse effect. Global warming is warming of the atmosphere caused by increasing quantities of GHGs. GHGs include:

- Carbon dioxide ($CO_2$); by far the most abundant GHG, primarily released during fuel combustion.
- Methane ($CH_4$); generated from the anaerobic decomposition of carbon-based material (including enteric fermentation and waste disposal in landfills).
- Nitrous oxide ($N_2O$); generated from industrial activity, fertiliser use and production.
- Hydrofluorocarbons (HFCs); commonly used as refrigerant gases in cooling systems.
- Perfluorocarbons (PFCs); used in a range of applications including solvents, medical treatments and insulators.
- Sulphur hexafluoride ($SF_6$); used as a cover gas in magnesium smelting and as an insulator in heavy duty switch gear.

It is common practice to aggregate the emissions of these gases to the equivalent emission of carbon dioxide. This provides a simple figure for comparison of emissions against targets. Aggregation is based on the potential of each gas to contribute to global warming relative to carbon dioxide and is known as the global warming potential (GWP). The resulting number is expressed as carbon dioxide equivalent (or $CO_2$-e).

GHG emissions that form an inventory can be split into three categories known as 'Scopes'. Scopes 1, 2 and 3 are defined by the Greenhouse Gas Protocol (GHG Protocol)[1] and can be summarised as follows:

- **Scope 1 –** Direct emissions from sources that are owned or operated by the organisation (examples include combustion of diesel in company owned vehicles or used in on-site generators).
- **Scope 2 –** Indirect emissions associated with the import of energy from another source (examples include importation of electricity or heat).
- **Scope 3 –** Other indirect emissions (other than Scope 2 energy imports) which are a direct result of the operations of the organisation but from sources not owned or operated by them (examples include business travel by air or rail and product usage).

The purpose of differentiating between the scopes of emissions is to avoid the potential for double counting, where two or more organisations assume responsibility for the same emissions.

[1] The Greenhouse Gas Protocol is a collaboration between the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD). The Protocol provides guidance on the calculation and reporting of carbon footprints.

# 4. Existing Environment

This section provides a description of the environmental characteristics in the study area, including a review of recent and historical meteorological and ambient air quality conditions. In this context the study area has been defined by a 20 km by 22 km region that includes a range of industrial, farming, business, residential and other activities. **Figure 4** shows the study area extent as well as the location of the nearest local communities.

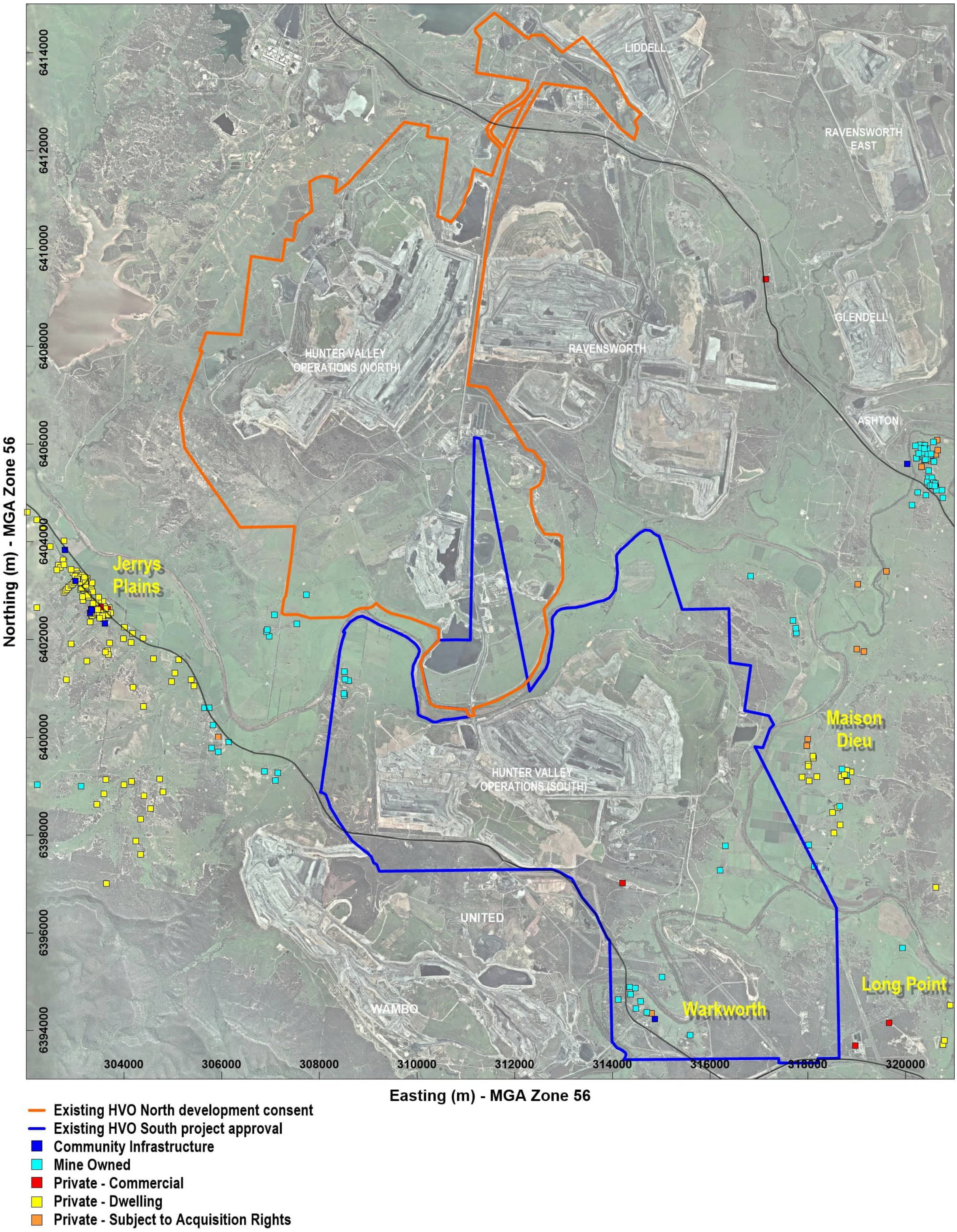



Figure 4 Study area extent and location of nearest local communities

## 4.1 Local Setting

The HVO Complex is located in a predominantly rural-residential area in the upper Hunter Valley of NSW, approximately 24 kilometres northwest of Singleton. The majority of the HVO Complex is located within the Singleton local government area (LGA) with a small, northern portion located within Muswellbrook LGA.

The HVO Complex is positioned near the floor of the Hunter Valley at elevations that range from approximately 50 to 200 metres (m) above sea level. The ranges of the Hunter Valley rise to over 700 m. **Figure 5** shows a pseudo three-dimensional representation of the local terrain.

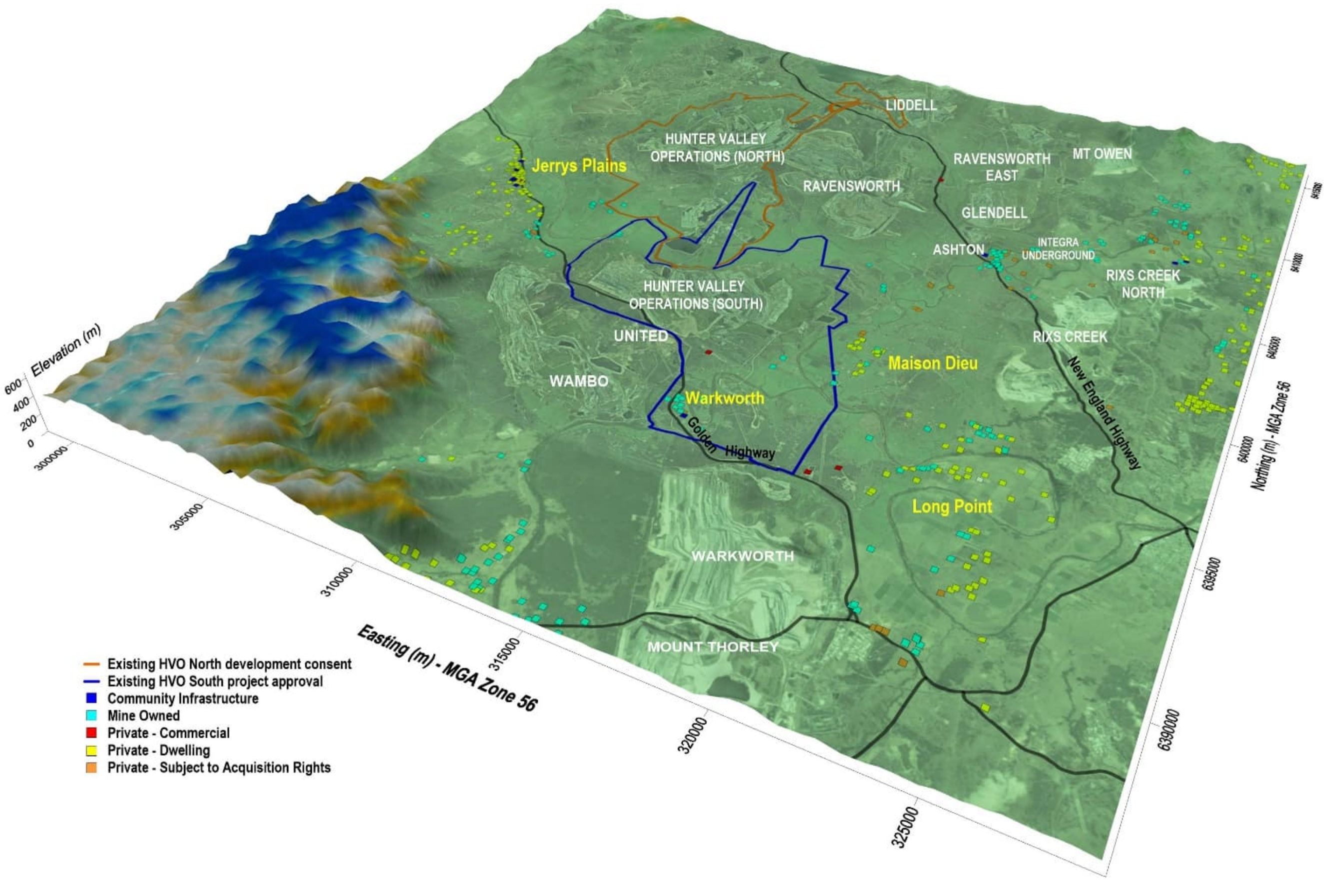



Figure 5 Pseudo three-dimensional representation of the local terrain

Main roads within the study area include the Golden Highway to the southwest and the New England Highway to the northeast. Local industry and agricultural activities include power stations, coal mines, cattle grazing, cropping, horse studs and wineries. The Hunter Valley Gliding Club is located near Warkworth, and neighbouring residential areas near the Project (**Figure 4**) include:

- Jerrys Plains
- Warkworth
- Maison Dieu
- Long Point

## 4.2 Meteorology

One of the objectives of this review was to develop an understanding of any existing air quality issues and to identify the main factors that have influenced air quality conditions. Meteorological conditions are important for determining the transport of emissions, and the potential influences on air quality. In addition, meteorological data are often used with concurrent air quality data to determine potential contributions from sources of interest. This section provides an analysis of the meteorological conditions around the HVO Complex and identifies the datasets that are representative of the long term, local conditions.

There is an extensive meteorological monitoring network in the Hunter Valley and most mining companies are required to operate at least one meteorological station as part of their development consent. HVO operates two meteorological stations, referred to as “HVO Corporate” and “Cheshunt”. The DPE also conducts meteorological monitoring in the Hunter Valley as part of their Upper Hunter Air Quality Monitoring Network. **Figure 6** shows the location of the HVO and DPE meteorological stations.

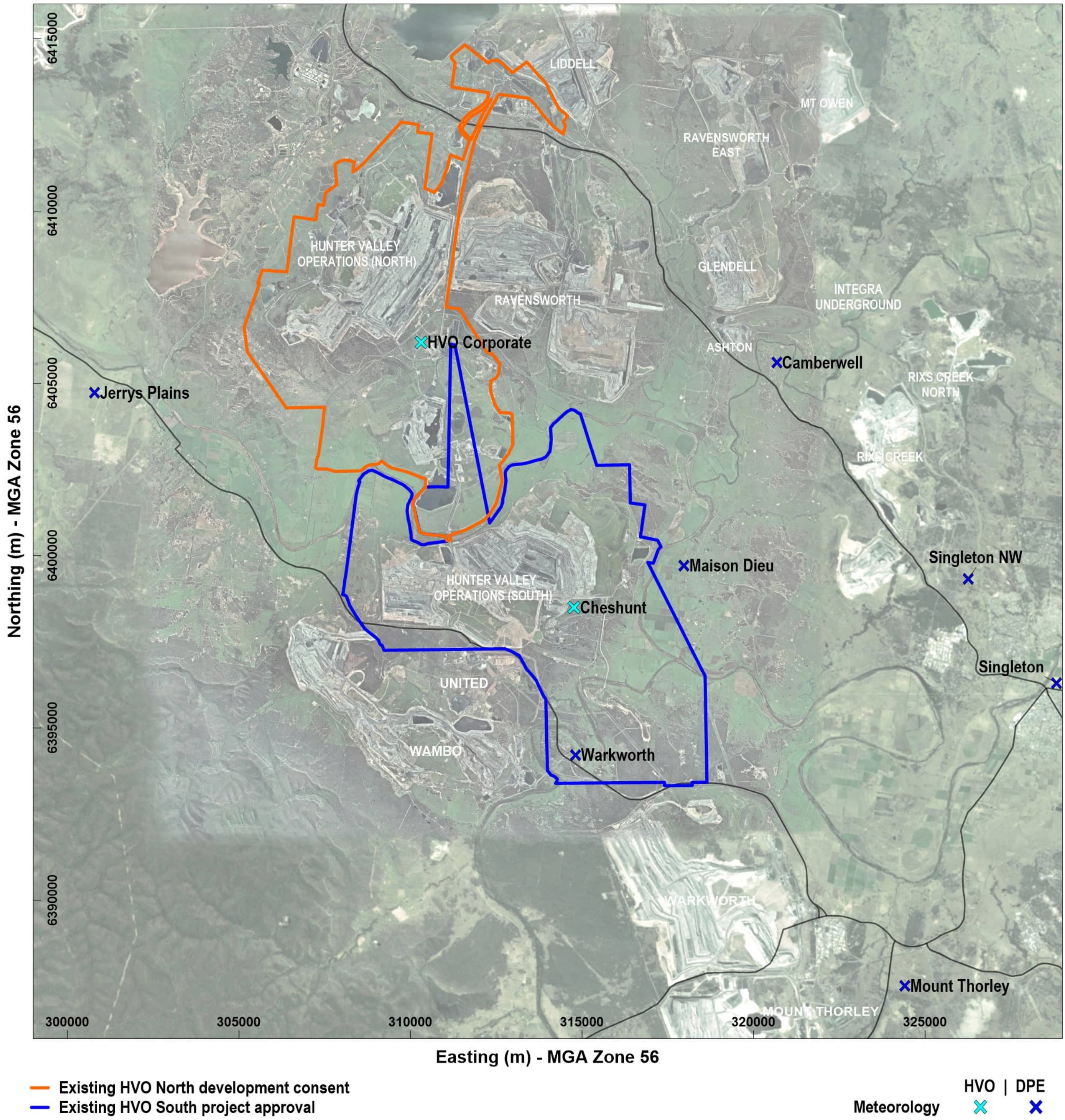



Figure 6 Location of meteorological stations

The EPA prescribes the minimum requirements for meteorological data that are to be used for air quality assessments. These requirements are outlined in the Approved Methods and include minimum data capture rates, siting and operation, and data preparation. Two types of meteorological stations are described by the EPA:

- "Site specific"; and
- "Site representative".

Data from site-specific meteorological stations are preferred for air quality assessments however site representative data are also acceptable provided that, with analysis of a minimum five years or records, the data adequately describe the expected meteorological conditions at the site of interest. From the EPA descriptions (EPA, 2022) there will be multiple meteorological stations collecting data that can be classified as representative of conditions around the HVO Complex.

Data from the two HVO meteorological stations, Corporate and Cheshunt, have been analysed in order to characterise the local conditions and to identify representative datasets. A minimum five years of data is required by the EPA (2022) however this assessment has considered all available data, eight years in total, to provide additional coverage of potential variations. The analysis involved comparing statistics from the data collected at each station for each calendar year to determine a year-long dataset that most closely reflects the longer term, local conditions. Wind data were primarily used for this purpose although rainfall data have also been considered.

Wind-roses have been prepared from the data collected at the Corporate and Cheshunt stations in the most recent eight year period (2013 to 2020 inclusive). The wind-roses (**Figure 7** and **Figure 8**) show the frequency of wind speeds and wind directions based on hourly records for each location. The circular format of the wind rose shows the direction from which the wind blew and the length of each "spoke" around the circle shows how often the wind blew from that direction. The different colours of each spoke provide details on the speed of the wind from each direction.

The most common winds in the area are from the southeast and west to northwest. This pattern of winds Is common for many parts of the Hunter Valley and reflects the northwest-southeast alignment of the valley. There are seasonal variations in the wind patterns, not shown by **Figure 7** and **Figure 8**, but various other studies (for example Jacobs, 2019) as well as **Appendix A** show that winds in summer are typically from the southeast and winds in winter are typically from the northwest. It is also clear from **Figure 7** and **Figure 8** that, for both locations, the wind patterns were similar across all eight years of data presented. This suggests that wind patterns do not vary significantly from year to year, and potentially the data from any of the years presented could be considered as representative of the longer-term conditions.

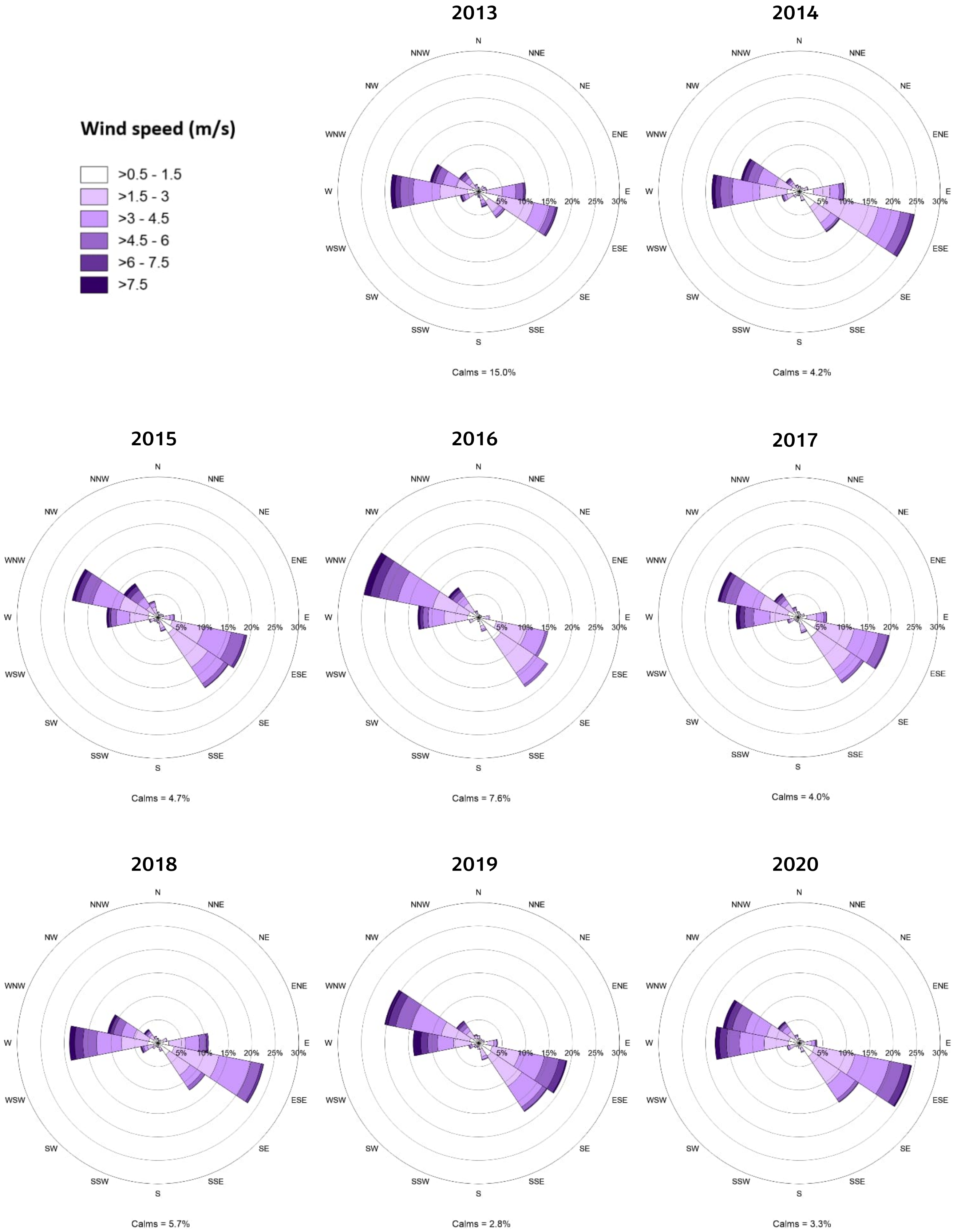



Figure 7 Annual wind-roses for data collected at the HVO Corporate meteorological station

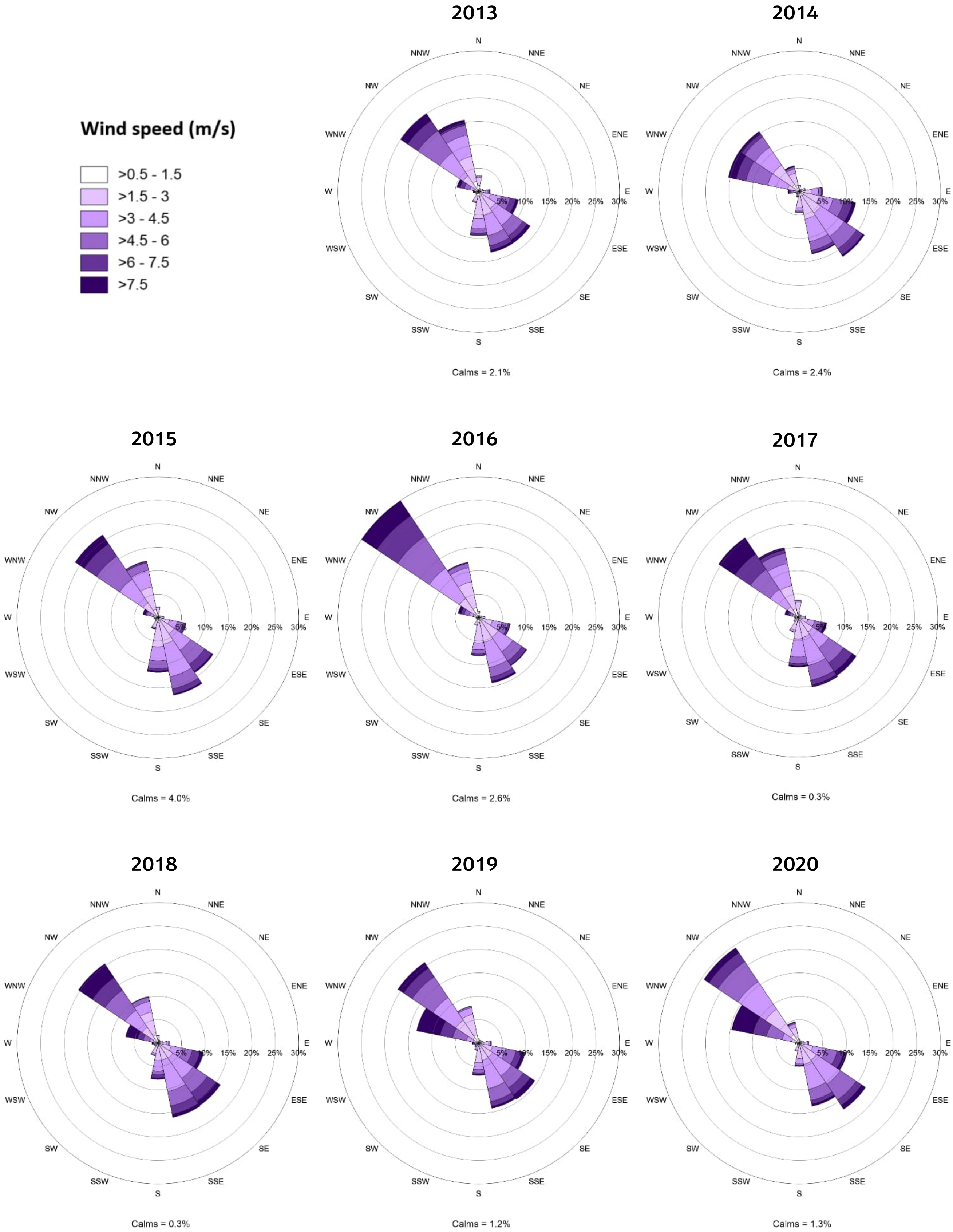



Figure 8 Annual wind-roses for data collected at the Cheshunt meteorological station

**Figure 9** shows the hourly wind speed data from HVO Corporate and Cheshunt meteorological stations (some data gaps were observed due to logging issues). These data show that wind speeds are generally lower in autumn and higher in spring with maximum wind speeds reaching around 12 to 14 metres per second. Rainfall data have also been presented. The rainfall data show the effect of the drought from 2017 to 2019, with annual rainfall at least 30 per cent lower than the long-term average of 662 mm (based on 61 years of data collected by the Bureau of Meteorology between 1959 to 2020). Repository issues led to some data gaps in 2015 and 2016.

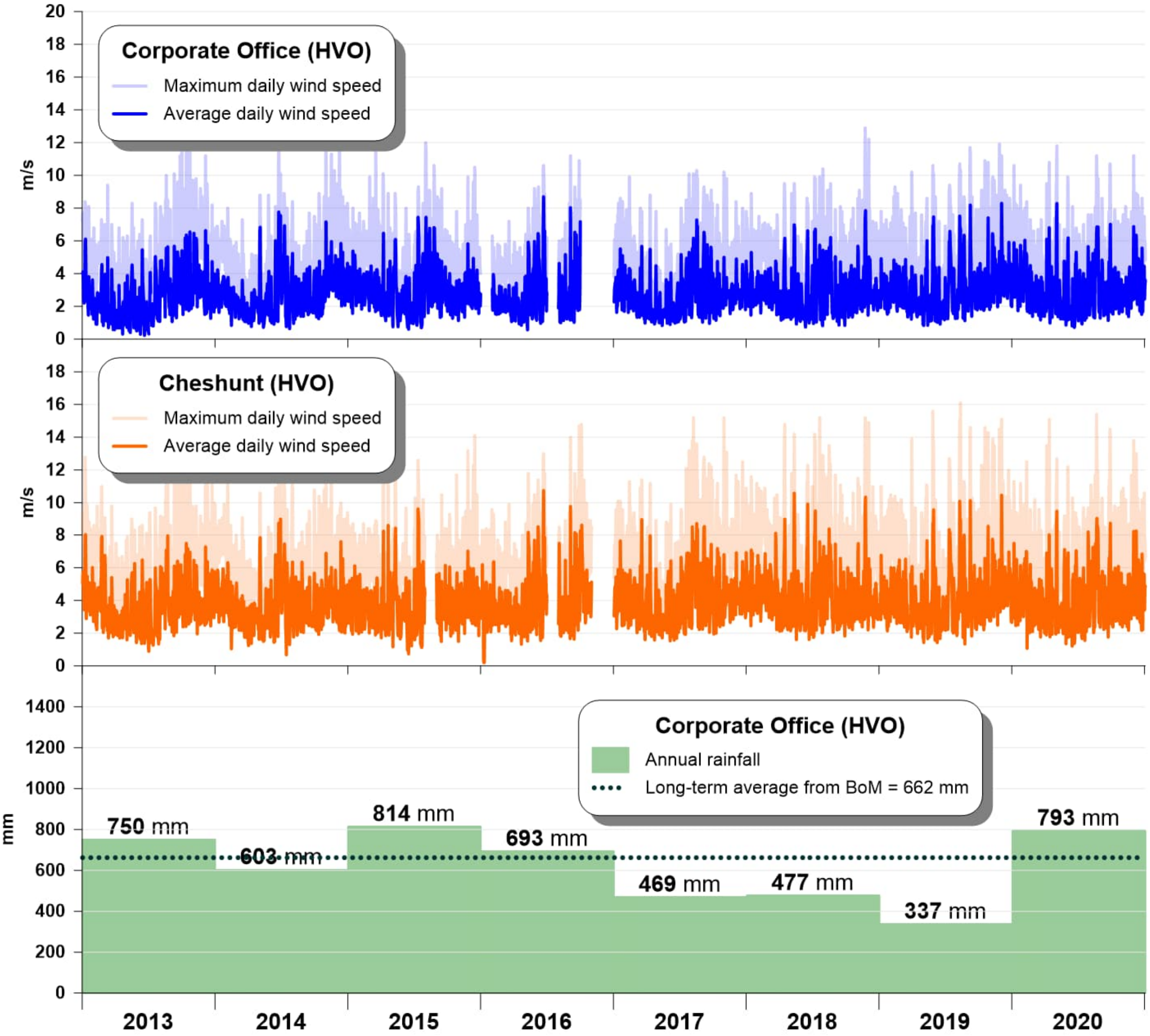



Figure 9 Wind speed and rainfall data collected between 2013 and 2020

**Table 7** provides annual wind statistics for the 2013 to 2020 calendar years. The Cheshunt meteorological station recorded higher wind speeds than the HVO Corporate station due to its more exposed location and higher elevation. The only unusual statistic was the percentage of calms at HVO Corporate in 2013; around three times higher than subsequent years. Some data gaps also existed in the 2016 records due to repository issues.

Table 7 Statistics from meteorological data collected between 2013 and 2020

| Statistic | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2013-2020 |
|---|---|---|---|---|---|---|---|---|---|
| **Percentage complete (%)** | | | | | | | | | |
| HVO Corporate | 99 | 100 | 100 | 58 | 100 | 100 | 100 | 99 | 94 |
| Cheshunt | 100 | 100 | 91 | 75 | 100 | 100 | 99 | 99 | 95 |
| **Mean wind speed (m/s)** | | | | | | | | | |
| HVO Corporate | 2.6 | 2.7 | 2.9 | 2.6 | 2.7 | 2.8 | 3.1 | 3.0 | 2.8 |
| Cheshunt | 3.7 | 3.6 | 3.7 | 3.8 | 4.1 | 4.2 | 4.2 | 4.1 | 3.9 |
| **Percentage of calms (<= 0.5 m/s)** | | | | | | | | | |
| HVO Corporate | 15.0 | 4.2 | 4.7 | 7.6 | 4.0 | 5.7 | 2.8 | 3.3 | 5.8 |
| Cheshunt | 2.1 | 2.4 | 4.0 | 2.6 | 0.3 | 0.3 | 1.2 | 1.3 | 1.7 |
| **Percentage of wind speeds >6 m/s** | | | | | | | | | |
| HVO Corporate | 5.5 | 5.3 | 5.3 | 5.4 | 4.7 | 6.1 | 8.4 | 6.9 | 6.0 |
| Cheshunt | 13.4 | 11.8 | 12.1 | 15.7 | 17.6 | 20.3 | 19.0 | 17.5 | 16.0 |
| **Rainfall (mm)** | | | | | | | | | |
| HVO Corporate | 750 | 603 | 814 | 693 | 469 | 477 | 337 | 793 | |

Data from the 2014 calendar year have been identified as being representative of the long term, local conditions around the HVO Complex and suitable for informing the air quality impacts of the Project. This outcome was based on HVO Corporate and Cheshunt data that showed:

- High data capture rate (i.e. 100%), meeting the EPA's requirement for a minimum 90% complete dataset.
- Similar wind patterns to other years.
- Rainfall near the long-term average, and closest to the long-term average of all other years assessed.
- Availability of concurrent air quality monitoring data.

**Section 4.3** also shows that air quality conditions in 2014 were similar to other years and not adversely influenced by bushfire activity or extreme conditions. Methods used for incorporating the 2014 data into modelling for the Project are discussed in detail in **Section 5**. Annual and seasonal wind-roses from data collected at HVO Corporate and Cheshunt in 2014 are provided in **Appendix A**.

## 4.3 Air Quality

There is an extensive air quality monitoring network in the Hunter Valley and most mining companies are required to operate multiple monitoring stations as part of their development consent. The DPE also conducts monitoring as part of their Upper Hunter Air Quality Monitoring Network. This section examines the recent and historical air quality conditions around the HVO Complex and establishes the appropriate background levels to be considered for assessment of the Project.

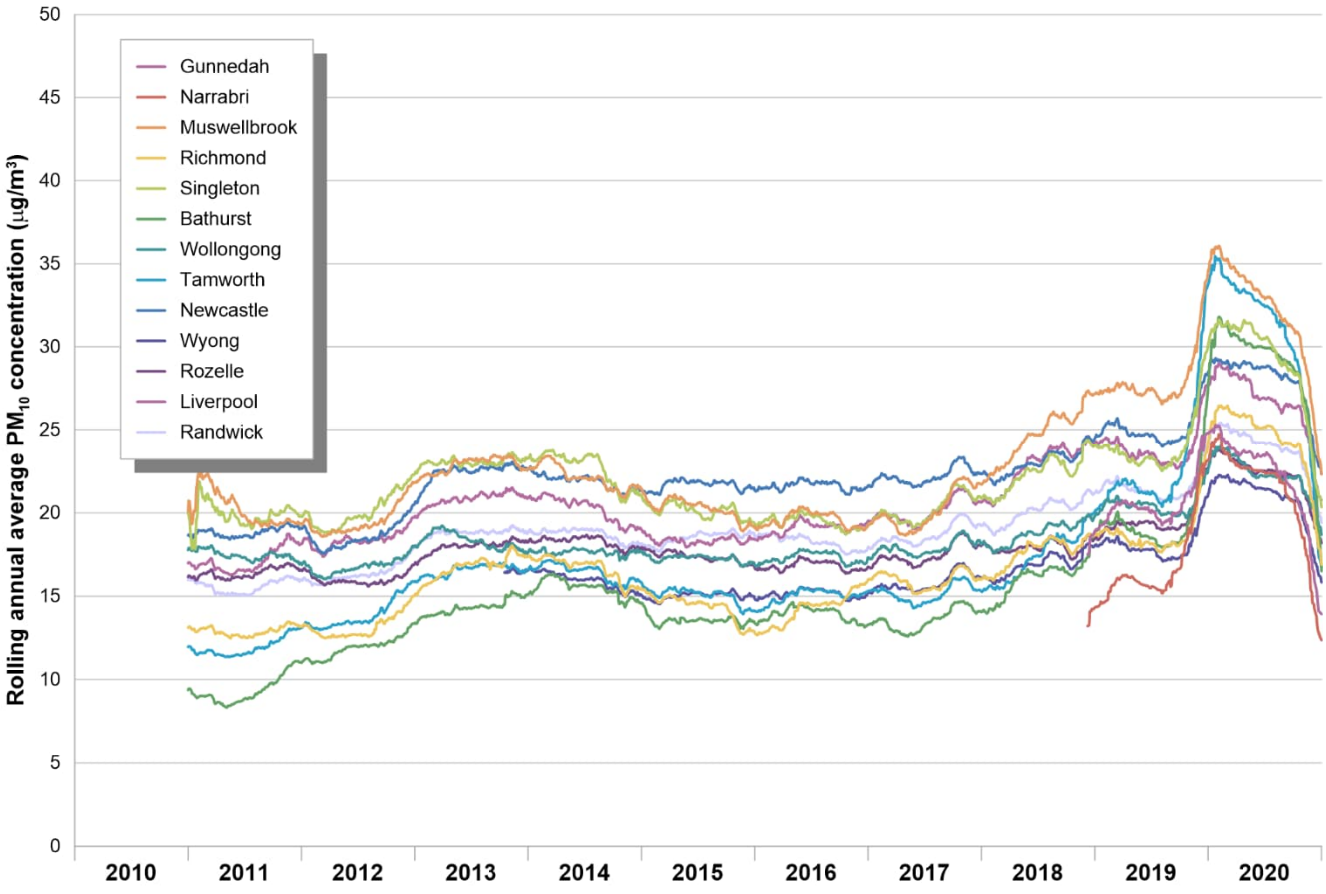
It should be noted that air quality monitoring data represent the contributions from all sources that have at some stage been upwind of each monitor. In the case of particulate matter (as $PM_{10}$) for example, a measurement may contain contributions from many sources such as from mining activities, construction works, bushfires and 'burning off', agricultural activities, industry, vehicles, roads, wind-blown dust from nearby and remote areas, fragments of pollens, moulds, and so on.

### 4.3.1 Extraordinary Events

Air quality in many parts of NSW, including the Hunter Valley, was adversely influenced by drought conditions between 2017 and early 2020 with lower than average rainfall. A deterioration in air quality conditions in recent years was not unique to the Hunter Valley and extraordinary events, beyond normal conditions, have been identified as part of annual reviews of monitoring data.

In their "Annual Air Quality Statement 2018" the DPE concluded that particle levels increased across NSW due to dust from the widespread, intense drought and smoke from bushfires and hazard reduction burning (OEH, 2019). The DPE subsequently concluded, from their "Annual Air Quality Statement 2019", that air quality in NSW was greatly affected by the continuing intense drought conditions and unprecedented extensive bushfires during 2019. In addition, the continued "intense drought has led to an increase in widespread dust events throughout the year" (DPIE, 2020).

The influence of drought conditions on air quality is evident in the DPE's monitoring data. **Figure 10** shows the rolling annual average $PM_{10}$ concentrations from data collected at various rural and urban air quality monitoring sites since 2011. These data clearly show an increase in $PM_{10}$ concentrations at all rural and urban locations from 2017 onwards, reflecting the onset of drought conditions, and increased bushfire activity in 2019 and into early 2020.




Source: https://www.dpie.nsw.gov.au/air-quality/air-quality-data-services/data-download-facility

Figure 10 Annual average $PM_{10}$ concentrations from various NSW air quality monitoring sites

**Table 8** identifies the numbers of days identified by the DPE as extraordinary events from 2013 to 2020. This information shows that there was an increase in the number of extraordinary (air quality related) events from 2017 through to 2020. These conditions were particularly evident in late 2019 and early 2020 due to a period of unprecedented bushfires in Australia, predominantly across southeast Australia, but also affecting a reported 4 million hectares of land in NSW since early November 2019. The bushfires adversely affected air quality across many parts of NSW and a total of 66 days in 2019 were subsequently declared as extraordinary events by the DPE.

Table 8 Days declared as extraordinary events

| Year | Number of days identified by the DPE as extraordinary events |
|---|---|
| 2013 | 6 |
| 2014 | 1 |
| 2015 | 4 |
| 2016 | 1 |
| 2017 | 7 |
| 2018 | 15 |
| 2019 | 66 |
| 2020 | 24 |

The use of years with elevated air quality levels, largely driven by extraordinary events or extreme climatic conditions (or both) are avoided in modelling studies primarily because they do not address the definition of representative. In addition, extraordinary events cannot be reliably simulated in air dispersion models as it is not possible to identify all possible factors that led to these events, for example, the factors that influence the time, location and intensity of bushfires. This context has been considered in the analysis below.

#### 4.3.2 Particulate Matter (as $PM_{10}$)

Air quality criteria for $PM_{10}$ are usually set to protect against adverse health impacts. HVO has a network of $PM_{10}$ monitors near the HVO Complex to assist with operations management and to determine ongoing compliance with the HVO North development consent and HVO South project approval. Monitoring of $PM_{10}$ is required under EPL 640 and the DPE also monitors $PM_{10}$ as part of their Upper Hunter Air Quality Monitoring Network. **Figure 11** shows the HVO and DPE monitoring locations.

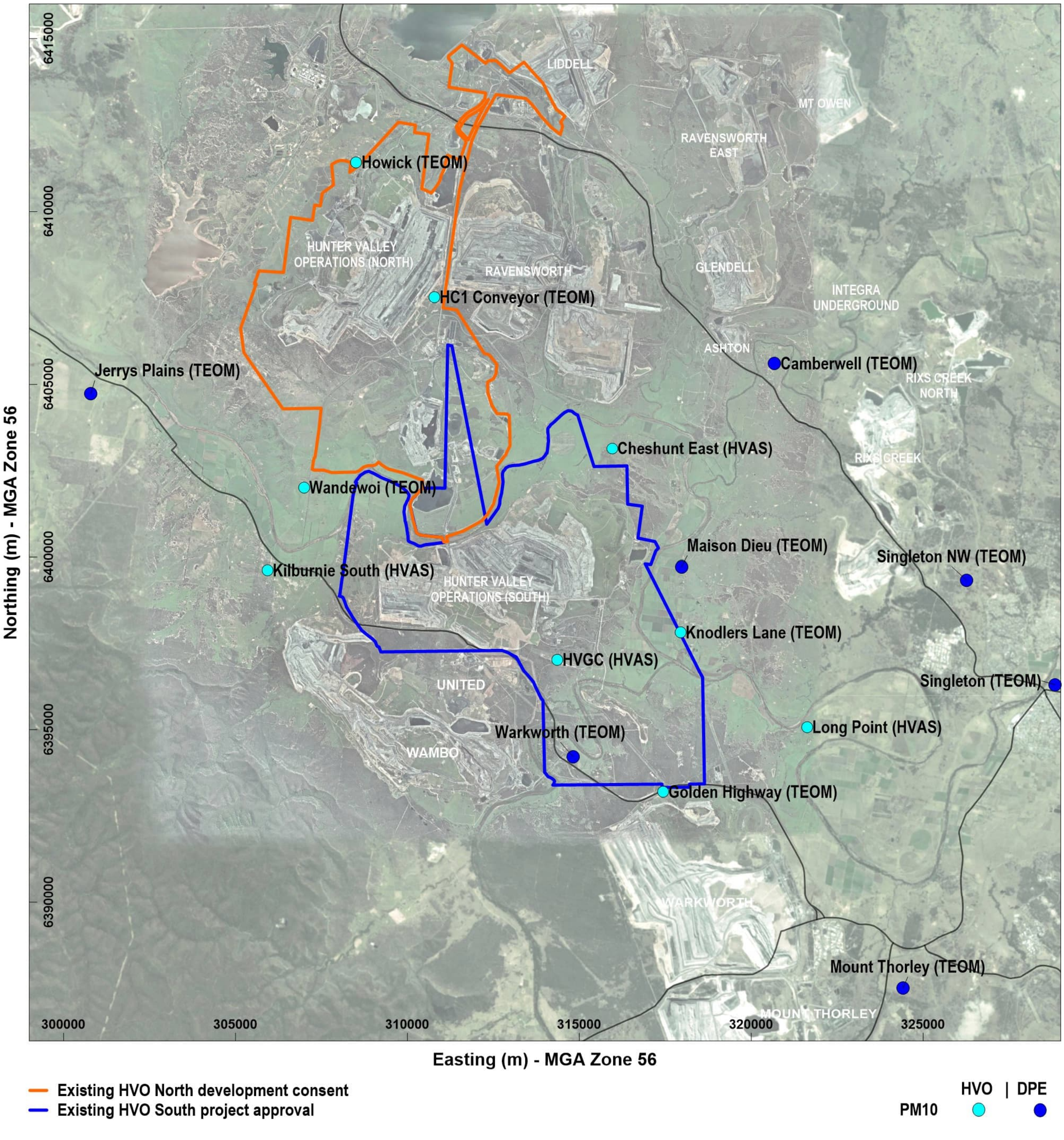



Figure 11 Location of $PM_{10}$ monitors

The monitors that are most representative of the nearest neighbouring residential areas are:

- Jerrys Plains (DPE)
- Kilburnie South (HVO)
- Knodlers Lane (HVO)
- Long Point (HVO)
- Maison Dieu (DPE)
- Warkworth (DPE)

**Figure 12** shows the measured 24-hour average $PM_{10}$ concentrations from each representative monitoring site for data collected between 2013 and 2020. It is important to note that **Figure 12** shows the EPA criterion that will be used to assess the Project not the criteria from the HVO North development consent and HVO South project approval. As noted in **Section 3.1** the EPA assessment criteria for $PM_{10}$ relate to the total concentration of pollutants in the air (that is, cumulative) and not just the contribution from Project-specific sources. The $PM_{10}$ criteria in the HVO North development consent and HVO South project approval relate to the increment of the development. The Annual Reviews explain any data gaps and provide the assessments of the monitoring data against the HVO North development consent and HVO South project approval.

**Table 9** provides a summary of all data and **Appendix B** provides additional analysis including discussion of the conditions that have influenced the measured concentrations.

The data can be summarised as follows:

- $PM_{10}$ concentrations increased from 2017 to 2020 coinciding with drought conditions and lower than average rainfall. These conditions led to increases in the number of days when the 24-hour average $PM_{10}$ concentration exceeded 50 µg/m$^3$ (the EPA assessment criterion) and increases in the annual average $PM_{10}$ concentrations. The increases in $PM_{10}$ concentrations were not unique to the Hunter Valley.
- There are seasonal variations with higher $PM_{10}$ concentrations generally occurring in the warmer months.
- There are diurnal variations with higher $PM_{10}$ concentrations generally occurring in the morning (around 9 am) and evening (around 7 pm).
- Each location is unique in terms of the wind directions that are associated with higher $PM_{10}$ concentrations.

The $PM_{10}$ monitoring data are reviewed by HVO as part of annual reporting and with consideration of extraordinary events, as outlined in **Section 4.3.1**. These reviews have shown that HVO has complied with the $PM_{10}$ criteria specified in the HVO North development consent and HVO South project approval over the last nine years (2013 to 2021) except on three occasions; the Hunter Valley Gliding Club (29 July 2017), Knodlers Lane (28 July 2021) and Cheshunt East (12 September 2021).

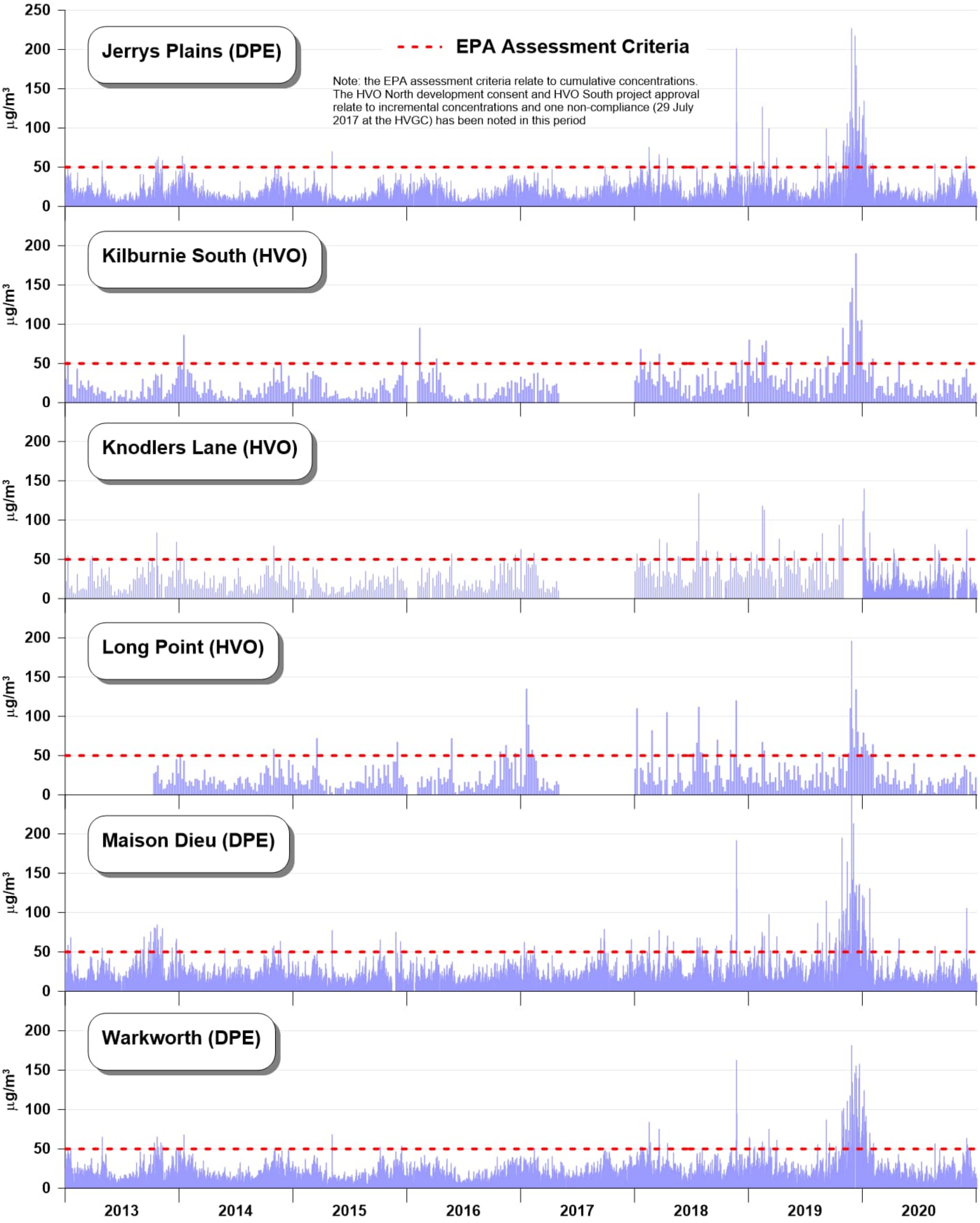



Figure 12 Measured 24-hour average $PM_{10}$ concentrations

Table 9 Summary of measured $PM_{10}$ concentrations

| Year | Jerrys Plains | Kilburnie South | Knodlers Lane | Long Point | Maison Dieu | Warkworth | EPA assessment criterion | DA 450-10-2003 / PA 06_0261 |
|---|---|---|---|---|---|---|---|---|
| Maximum 24-hour average in µg/m³ | | | | | | | | |
| 2013 | 63 | 52 | 84 | 45 | 84 | 65 | 50 | [b]50 / [b]50 |
| 2014 | 64 | 86 | 67 | 58 | 64 | 68 | 50 | [b]50 / [b]50 |
| 2015 | 70 | 53 | 41 | 72 | 77 | 68 | 50 | [b]50 / [b]50 |
| 2016 | 43 | 95 | 63 | 72 | 48 | 42 | 50 | [b]50 / [b]50 |
| 2017 | 51 | 38 | 58 | 135 | 79 | 51 | 50 | [b]50 / [b]50 |
| 2018 | 201 | 68 | 134 | 120 | 192 | 162 | 50 | [b]50 / [b]50 |
| 2019 | 227 | 190 | 118 | 134 | 446 | 182 | 50 | [b]50 / [b]50 |
| 2020 | 135 | 56 | 140 | 79 | 131 | 124 | 50 | [b]50 / [b]50 |
| Number of days above 50 µg/m³ | | | | | | | | |
| 2013 | 6 | 1 | 5 | 0 | 28 | 8 | - | - |
| 2014 | 6 | 1 | 1 | 2 | 6 | 2 | - | - |
| 2015 | 1 | 1 | 0 | 2 | 5 | 3 | - | - |
| 2016 | 0 | 2 | 4 | 6 | 0 | 0 | - | - |
| 2017 | 1 | 0 | 2 | 3 | 9 | 1 | - | - |
| 2018 | 11 | 4 | 14 | 12 | 23 | 15 | - | - |
| 2019 | 54 | 14 | 12 | 10 | 66 | 57 | - | - |
| 2020 | 18 | 3 | 11 | 5 | 18 | 18 | - | - |
| Annual average in µg/m³ | | | | | | | | |
| 2013 | 19 | 16 | 25 | 21 | 26 | 21 | 30 | [a]30 / [a]30 |
| 2014 | 18 | 19 | 22 | 20 | 23 | 21 | 30 | [a]30 / [a]30 |
| 2015 | 15 | 16 | 17 | 19 | 20 | 18 | 30 | [a]30 / [a]30 |
| 2016 | 17 | 17 | 23 | 21 | 20 | 19 | 30 | [a]30 / [a]30 |
| 2017 | 18 | 20 | 25 | 30 | 23 | 22 | 25 | [a]30 / [a]30 |
| 2018 | 24 | 27 | 37 | 33 | 28 | 26 | 25 | [a]30 / [a]25 |
| 2019 | 32 | 42 | 42 | 31 | 38 | 33 | 25 | [a]30 / [a]25 |
| 2020 | 21 | 20 | 22 | 21 | 23 | 24 | 25 | [a]30 / [a]25 |

*[a] Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).*
*[b] Incremental impact (i.e. incremental increase in concentrations due to the development on its own).*

### 4.3.3 Particulate Matter (as $PM_{2.5}$)

Air quality criteria for $PM_{2.5}$ are usually set to protect against adverse health impacts. Historically the closest monitoring stations to the HVO Complex that measure $PM_{2.5}$ have been located at Camberwell and Singleton. Both of these stations are operated by the DPE. There has however been an increase in the number of $PM_{2.5}$ monitoring stations near the HVO Complex. HVO commenced monitoring of $PM_{2.5}$ using high volume air samplers at Kilburnie South and Maison Dieu in September 2019 following approval of PA 06_0261 Modification 5. The United Wambo JV also commenced monitoring of $PM_{2.5}$ using beta attenuation monitors in June 2020 at two locations referred to as Kelly and Thelander. **Figure 13** shows the HVO, DPE and United Wambo JV monitoring locations.

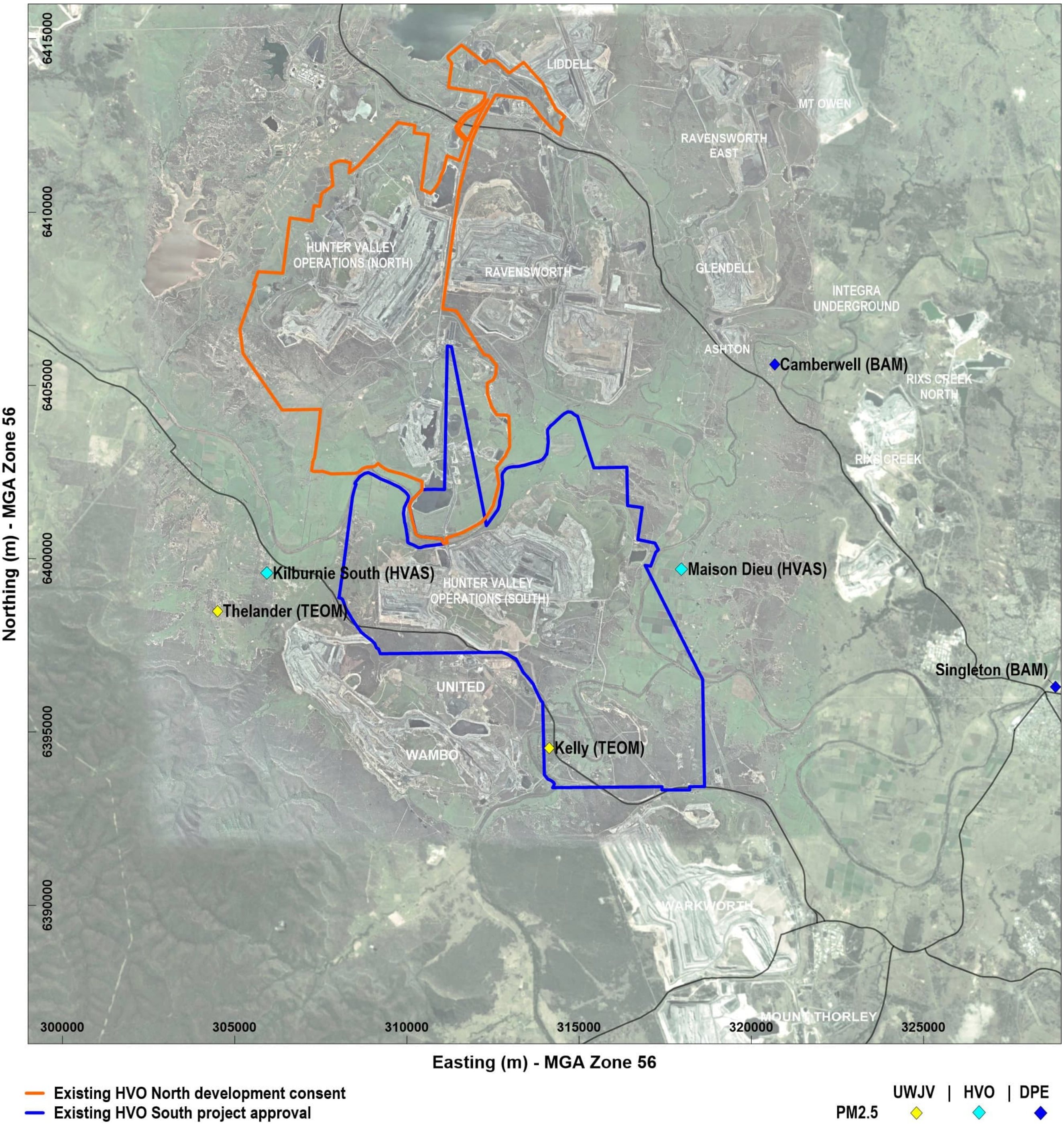



Figure 13 Location of $PM_{2.5}$ monitors

**Figure 14** shows the measured 24-hour average $PM_{2.5}$ concentrations from all identified monitoring sites for data collected between 2013 and 2020. The increased bushfire activity in late 2019 and early 2020 is evident in these data with $PM_{2.5}$ concentrations exceeding the EPA assessment criterion at all locations where data were available. The measurements from Kilburnie South and Maison Dieu did not follow the same trends as those from the other monitors so additional analysis was carried out (**Appendix B**). This analysis indicated that the measurements from the Kelly and Thelander locations would be most representative of $PM_{2.5}$ levels near HVO.

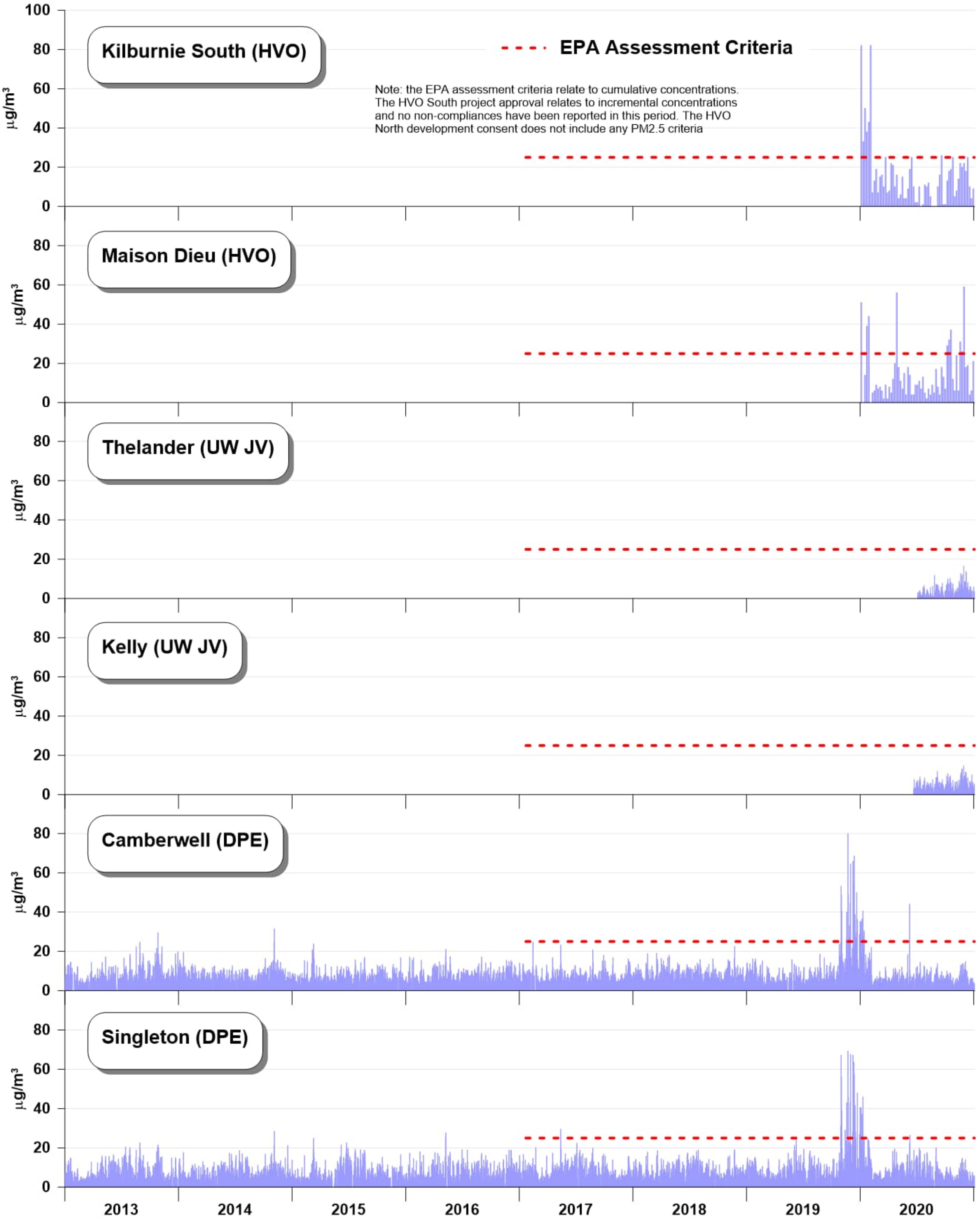



Figure 14 Measured 24-hour average $PM_{2.5}$ concentrations

**Table 10** summarises the measured $PM_{2.5}$ concentrations from data collected between 2013 and 2020. Again, these data show the effect of the increased bushfire activity in late 2019 and early 2020 with $PM_{2.5}$ concentrations exceeding the EPA assessment criterion at all locations where data were available. Annual averages have approached or exceeded 8 µg/m$^3$ (the EPA criterion introduced in 2017) in all years of data from Camberwell, Singleton and Newcastle. The more recent data from Kelly and Thelander indicate that $PM_{2.5}$ concentrations are lower near HVO. Based on the analysis from **Appendix B**, and the availability of data points, the measurements from Kelly and Thelander were taken to be the most representative of $PM_{2.5}$ levels near HVO.

Table 10 Summary of measured $PM_{2.5}$ concentrations

| Year | Camberwell | Singleton | Kilburnie South[1] | Maison Dieu[1] | Kelly[2] | Thelander[2] | Newcastle | EPA assessment criterion | DA 450-10-2003 / PA 06_0261 |
|---|---|---|---|---|---|---|---|---|---|
| Maximum 24-hour average in µg/m$^3$ | | | | | | | | | |
| 2013 | 30 | 23 | - | - | - | - | 15 | - | - / - |
| 2014 | 32 | 29 | - | - | - | - | 21 | - | - / - |
| 2015 | 24 | 25 | - | - | - | - | 30 | - | - / - |
| 2016 | 21 | 28 | - | - | - | - | 66 | - | - / - |
| 2017 | 25 | 30 | - | - | - | - | 18 | 25 | - / - |
| 2018 | 23 | 19 | - | - | - | - | 20 | 25 | - / [b]25 |
| 2019 | 80 | 69 | - | - | - | - | 96 | 25 | - / [b]25 |
| 2020 | 44 | 46 | 43 | 59 | 15 | 17 | 79 | 25 | - / [b]25 |
| Number of days above 25 µg/m$^3$ | | | | | | | | | |
| 2013 | 1 | 0 | - | - | - | - | 0 | - | - |
| 2014 | 1 | 1 | - | - | - | - | 0 | - | - |
| 2015 | 0 | 0 | - | - | - | - | 1 | - | - |
| 2016 | 0 | 2 | - | - | - | - | 1 | - | - |
| 2017 | 0 | 1 | - | - | - | - | 0 | - | - |
| 2018 | 0 | 0 | - | - | - | - | 0 | - | - |
| 2019 | 24 | 20 | - | - | - | - | 25 | - | - |
| 2020 | 8 | 5 | 2 | 5 | 0 | 0 | 6 | - | - |
| Annual average in µg/m$^3$ | | | | | | | | | |
| 2013 | 8.2 | 7.9 | - | - | - | - | 8.8 | - | - / - |
| 2014 | 7.8 | 7.8 | - | - | - | - | 8.1 | - | - / - |
| 2015 | 7.2 | 7.6 | - | - | - | - | 7.9 | - | - / - |
| 2016 | 7.5 | 7.9 | - | - | - | - | 7.8 | - | - / - |
| 2017 | 7.4 | 8.2 | - | - | - | - | 7.4 | 8 | - / - |
| 2018 | 8.4 | 8.1 | - | - | - | - | 7.8 | 8 | - / [a]8 |
| 2019 | 10.5 | 10.9 | - | - | - | - | 10.9 | 8 | - / [a]8 |
| 2020 | 7.6 | 8.4 | 16.0 | 14.8 | 5.2 | 4.2 | 8.2 | 8 | - / [a]8 |

[1] *Data available from September 2019. Analysis from **Appendix B** indicated that these data did not follow expected trends.*
[2] *Data available from June 2020.*
[a] *Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).*
[b] *Incremental impact (i.e. incremental increase in concentrations due to the development on its own).*

$PM_{2.5}$ concentrations are strongly influenced by combustion-related sources such as bushfires, motor vehicles and wood smoke from domestic heating. The *Upper Hunter Fine Particle Characterisation Study* (OEH, 2013) investigated the factors which contributed to elevated $PM_{2.5}$ concentrations in the Hunter Valley. This study identified a clear seasonal trend with higher $PM_{2.5}$ concentrations occurring in the cooler months, and predominantly due to wood smoke from domestic heating. Specifically, in Singleton, wood smoke accounted for an average of approximately 14% of the total $PM_{2.5}$, peaking at around 38% in winter.

### 4.3.4 Particulate Matter (as TSP)

Air quality criteria for TSP are usually set to protect against nuisance amenity impacts. Monitoring of TSP is carried out by HVO at six locations (**Figure 15**) and the measurements are used to determine ongoing compliance with the HVO North development consent and HVO South project approval.

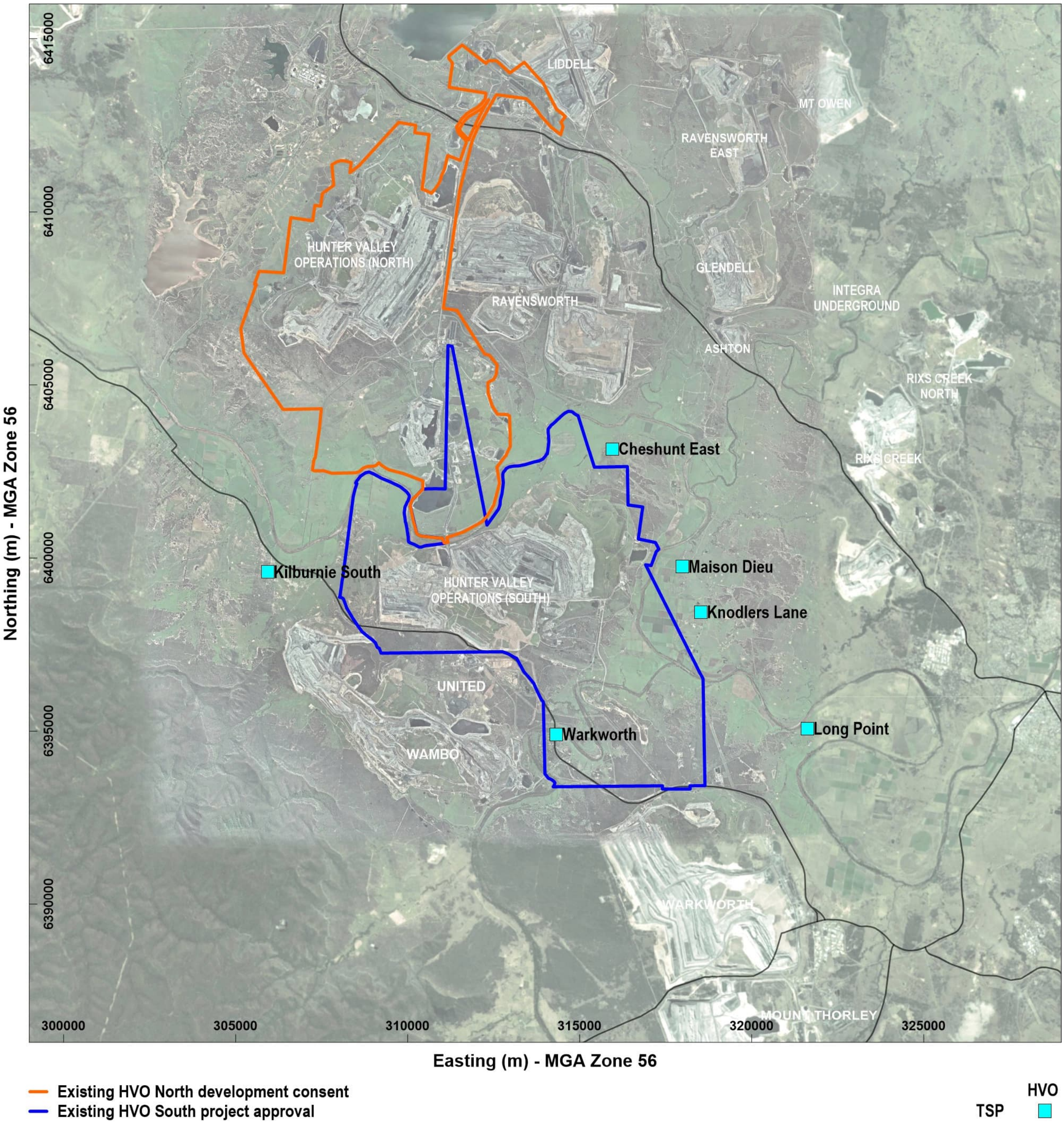



Figure 15 Location of TSP monitors

The monitors that are most representative of the nearest local communities are:

- Kilburnie South (HVO)
- Knodlers Lane (HVO)
- Long Point (HVO)
- Maison Dieu (HVO)
- Warkworth (HVO)

**Table 11** shows the annual average TSP concentrations from each representative monitoring site for data collected between 2013 and 2020. Annual average TSP concentrations were clearly higher in 2018 and 2019 than in the preceding five years. Again this outcome was influenced by the drought conditions and lower than average rainfall. The increases in TSP concentrations were not unique to the Hunter Valley.

Table 11 Summary of measured TSP concentrations

| Year | Kilburnie South | Knodlers Lane | Long Point | Maison Dieu | Warkworth | EPA assessment criterion | DA 450-10-2003 / PA 06_0261 |
|---|---|---|---|---|---|---|---|
| Annual average in µg/m$^3$ | | | | | | | |
| 2013 | 49 | 81 | 62 | 65 | 56 | 90 | [a]90 / [a]90 |
| 2014 | 57 | 66 | 57 | 62 | 54 | 90 | [a]90 / [a]90 |
| 2015 | 58 | 54 | 62 | 53 | 52 | 90 | [a]90 / [a]90 |
| 2016 | 54 | 68 | 59 | 50 | 43 | 90 | [a]90 / [a]90 |
| 2017 | 75 | 74 | 81 | 58 | 63 | 90 | [a]90 / [a]90 |
| 2018 | 108 | 105 | 105 | 83 | 80 | 90 | [a]90 / [a]90 |
| 2019 | 145 | 122 | 88 | 125 | 99 | 90 | [a]90 / [a]90 |
| 2020 | 83 | 74 | 57 | 63 | 76 | 90 | [a]90 / [a]90 |

[a] *Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).*

The TSP monitoring data are reviewed by HVO as part of annual reporting and with consideration of extraordinary events, as outlined in **Section 4.3.1**. These reviews have shown that HVO has complied with the TSP criteria specified in the HVO North development consent and HVO South project approval.

### 4.3.5 Deposited Dust

Air quality criteria for deposited dust are usually set to protect against nuisance amenity impacts. Monitoring of deposited dust relates to the collection of particles that settle from the ambient air. Insoluble and soluble matter is separated by filtration and the mass of dried insoluble solids is determined gravimetrically. The exposure period is 30 ±2 days and one result (of insoluble solids) is obtained every month.

Monitoring of deposition dust is carried out by HVO at ten locations (**Figure 16**) and the measurements are used to determine ongoing compliance with the HVO North development consent. The HVO South project approval does not contain deposited dust criteria.

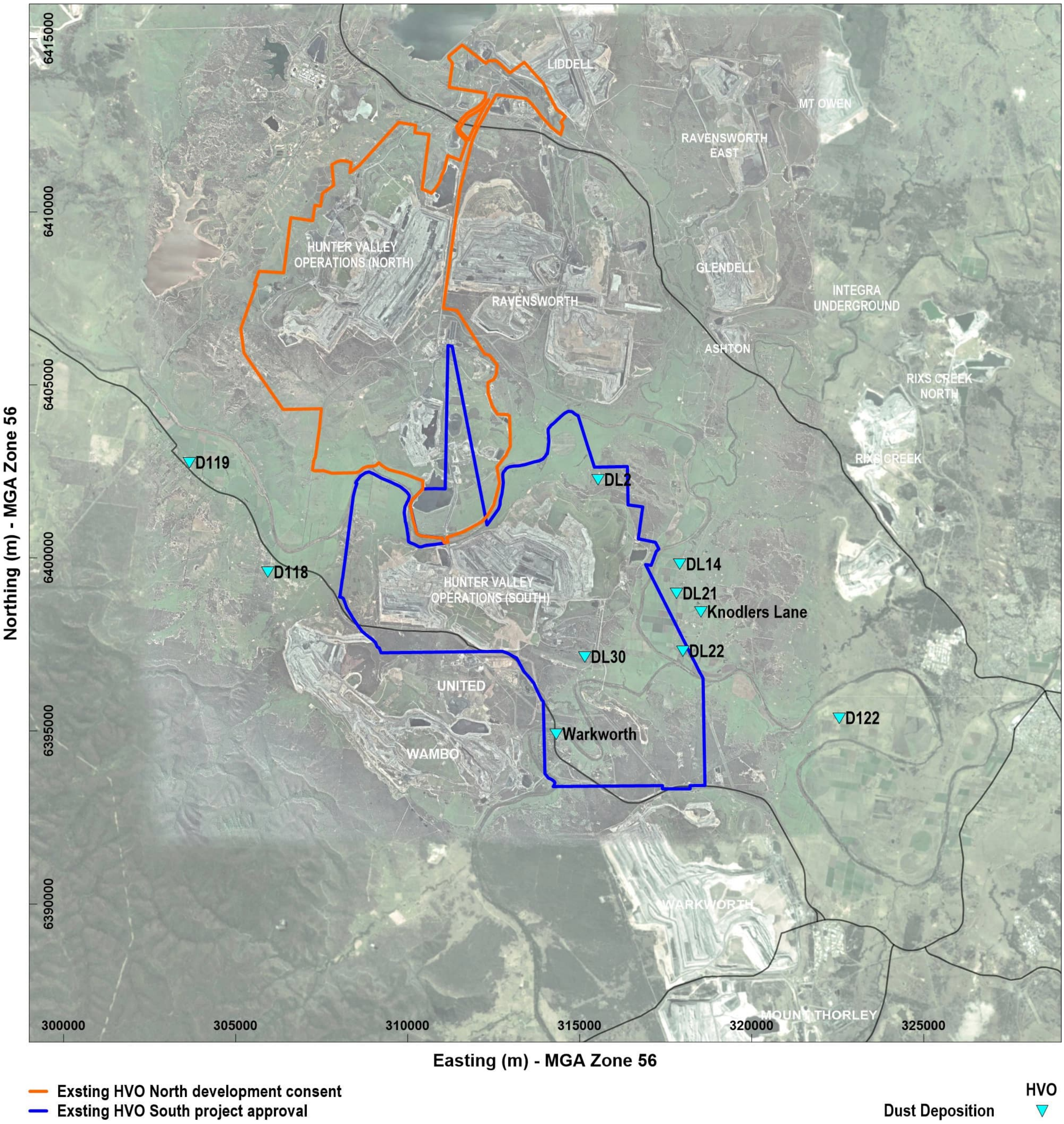



Figure 16 Location of dust deposition monitors

The monitors that are most representative of the nearest neighbouring residential area are:

- D119 at Jerrys Plains
- D118 at Kilburnie South
- Knodlers Lane
- D122 at Long Point
- DL14 at Maison Dieu
- Warkworth

**Table 12** shows the annual average deposited dust levels from each representative monitoring site for data collected between 2013 and 2020. Two locations, Kilburnie South and Warkworth, have experienced deposited dust levels above the 4 g/m$^2$/month criterion in one or more of the past eight years. No other location has experienced deposited dust levels above the 4 g/m$^2$/month criterion in the past eight years.

Table 12 Summary of measured deposited dust

| Year | Jerrys Plains (D119) | Kilburnie South (D118) | Knodlers Lane | Long Point (D122) | Maison Dieu (DL14) | Warkworth | EPA assessment criterion | DA 450-10-2003 / PA 06_0261 |
|---|---|---|---|---|---|---|---|---|
| Annual average in g/m$^2$/month | | | | | | | | |
| 2013 | 2.6 | 2.2 | 2.6 | 3.5 | 1.9 | 3.3 | 4 | [a]4 / - |
| 2014 | 2.5 | 3 | 1.4 | 2.7 | 2 | 2.8 | 4 | [a]4 / - |
| 2015 | 2.9 | 2.2 | 1.5 | 2.6 | 2.2 | 3 | 4 | [a]4 / - |
| 2016 | 1.7 | 2.4 | 1.5 | 3.4 | 1.3 | 3.1 | 4 | [a]4 / - |
| 2017 | 2 | 2.8 | 2.3 | 3.0 | 2 | 4.2 | 4 | [a]4 / - |
| 2018 | 2.4 | 3.7 | 2.3 | 4.0 | 1.9 | 4.2 | 4 | [a]4 / - |
| 2019 | 3.2 | 4.8 | 2.2 | 3.6 | 2.3 | 5.3 | 4 | [a]4 / - |
| 2020 | 3.5 | 3.8 | 1.8 | 3.3 | 1.8 | 5.5 | 4 | [a]4 / - |

[a] *Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources).*

The deposited dust monitoring data are reviewed by HVO as part of annual reporting and with consideration of extraordinary events, as outlined in **Section 4.3.1**. These reviews have shown that HVO has complied with the deposited dust criteria specified in the HVO North development consent.

### 4.3.6 Nitrogen Dioxide ($NO_2$)

**Table 13** provides a summary of the measured $NO_2$ concentrations from Singleton, the closest known air quality monitoring site which records this air quality indicator. These data show that the maximum $NO_2$ concentrations have not exceeded the, then applicable. EPA's 1-hour average assessment criterion of 246 µg/m$^3$ (now 164 µg/m$^3$). Annual averages have not exceeded the, then applicable, EPA's annual average assessment criterion of 62 µg/m$^3$.

Table 13 Summary of measured $NO_2$ concentrations

| Year | Singleton | EPA assessment criterion |
|---|---|---|
| Maximum 1-hour average in µg/m$^3$ | | |
| 2013 | 84 | 246 |
| 2014 | 74 | 246 |
| 2015 | 66 | 246 |
| 2016 | 66 | 246 |
| 2017 | 74 | 246 |
| 2018 | 72 | 246 |
| 2019 | 76 | 246 |
| 2020 | 68 | 246 |
| Annual average in µg/m$^3$ | | |
| 2013 | 18 | 62 |
| 2014 | 16 | 62 |
| 2015 | 16 | 62 |

| Year | Singleton | EPA assessment criterion |
|---|---|---|
| 2016 | 16 | 62 |
| 2017 | 17 | 62 |
| 2018 | 16 | 62 |
| 2019 | 14 | 62 |
| 2020 | 12 | 62 |

Nitrogen dioxide is a component of $NO_x$. Emissions of $NO_x$ from combustion related sources will include both nitric oxide (NO) and $NO_2$. In general, at the point of emission, NO will comprise the greatest proportion of the total $NO_x$ emission. Typically, this is 90% by volume of the $NO_x$. The remaining 10% will comprise mostly $NO_2$. Ultimately however, much of the NO emitted into the atmosphere is oxidised to $NO_2$. The rate at which this oxidisation takes place depends on prevailing atmospheric conditions including temperature, humidity and the presence of other substances in the atmosphere such as ozone. It can vary from a few minutes to many hours. The rate of conversion is important because from the point of emission to the point of maximum ground-level concentration there will be an interval of time during which some oxidation will take place. If the dispersion is sufficient to have diluted the plume to the point where the concentration is very low, then the level of oxidation is unimportant. However, if the oxidation is rapid and the dispersion is slow then high concentrations of $NO_2$ can occur.

The $NO_x$ monitoring data in the Hunter Valley show that percentage of $NO_2$ in the $NO_x$ is inversely proportional to the total $NO_x$ concentration, and when $NO_x$ concentrations are high, the percentage of $NO_2$ in the $NO_x$ is typically of the order of 20%. This is demonstrated by **Figure 17** which shows that, for high $NO_x$ concentrations, the $NO_2$ to $NO_x$ ratio reduces to less than 20%.

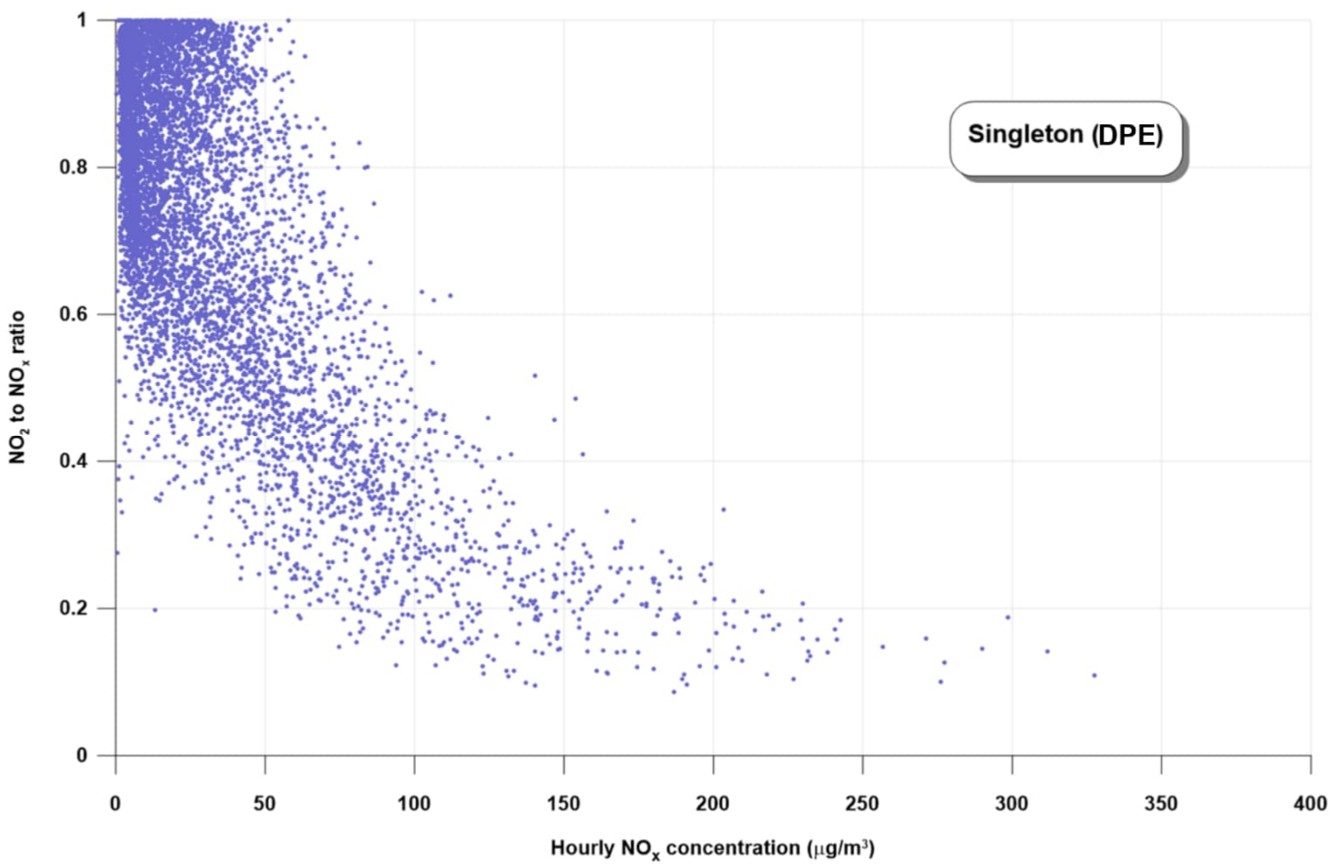



Figure 17 Measured $NO_2$ to $NO_x$ ratios from hourly average data collected at Singleton in 2014

## 4.4 Greenhouse Gas

The *National Greenhouse and Energy Reporting (Measurement) Determination 2008* (Measurement Determination) provides methods, criteria and measurement standards for calculating and reporting greenhouse gas emissions and energy data under the NGER Act. It covers scope 1 and scope 2 emissions and energy production and consumption. The Measurement Determination is used for historical reporting of activities.

Greenhouse gas emissions from the HVO Complex are calculated using the Measurement Determination and reported in accordance with the NGER Act. **Table 14** shows the reported GHG emissions for recent years. The decrease in reported Scope 1 emissions after 2014/15 was largely due to HVO adopting a more accurate method of reporting fugitive emissions (i.e. Method 2 instead of Method 1).

Table 14 Reported greenhouse gas emissions

| Reporting year | ROM coal production (Mt) | Direct emissions (Mt $CO_2$-e) | | Direct emission intensity (Mt $CO_2$-e/Mt ROM) |
|---|---|---|---|---|
| | | Scope 1 | Scope 2 | |
| 2013/2014 | 17.67 | 1.12 | 0.13 | 0.07 |
| 2014/2015 | 17.58 | 1.11 | 0.12 | 0.07 |
| 2015/2016 | 17.75 | 0.48 | 0.12 | 0.03 |
| 2016/2017 | 20.48 | 0.55 | 0.12 | 0.03 |
| 2017/2018 | 18.85 | 0.62 | 0.11 | 0.04 |
| 2018/2019 | 18.63 | 0.58 | 0.11 | 0.04 |
| 2019/2020 | 18.80 | 0.56 | 0.11 | 0.04 |
| 2020/2021 | 14.87 | 0.56 | 0.09 | 0.04 |

## 4.5 Summary of Existing Environment

The review of the existing environment led to the following observations:

- Meteorological conditions do not vary significantly from year to year, except for rainfall, and conditions in 2014 were identified as most representative of the long term, local conditions around the HVO Complex.
- Air quality conditions are strongly correlated to the climatic conditions. For example, there was a deterioration in air quality conditions between 2017 and 2019 that were heavily influenced by drought, dust storms and bushfires. These conditions were not unique to the Hunter Valley.

One of the objectives for reviewing the air quality monitoring data was to determine appropriate background levels to be added to Project contributions for the assessment of potential cumulative impacts. For this objective, it was important to identify appropriate data from monitoring stations that are sufficiently close to the Project but not adversely influenced by those sources which are proposed for modification, such as mining operations. This is to avoid double-counting.

For $PM_{10}$, an hourly variable background concentration dataset was derived by adopting the minimum measured non-zero $PM_{10}$ average concentration from all DPE monitors near the Project for each hour in the representative year (2014). A key assumption to this approach was that the minimum value from these sites reflected a location that was not being influenced by emissions from the sources or operations in the models for the Project. A similar approach was not possible for $PM_{2.5}$ as representative monitoring only commenced in 2019 onwards and were not being collected in the representative year (2014). It was therefore assumed that the background $PM_{2.5}$ concentrations would follow the same profile as the derived background $PM_{10}$ concentrations but with an annual average that matched the available and more recently (2020) measured $PM_{2.5}$ concentrations near the Project, at the Kelly monitoring location, as described in **Section 4.3.3**.

**Figure 18** shows a graphical representation of the assumed background $PM_{10}$ and $PM_{2.5}$ concentrations that were used in this assessment and added to the model results for the Project. As can be seen from **Figure 18** these background concentrations have been inferred from the measurement data. The statistics of the resultant datasets (included in **Table 15**) indicate that this approach, and its inherent assumptions, produce estimated background levels which are similar to actual measurements in the study area.

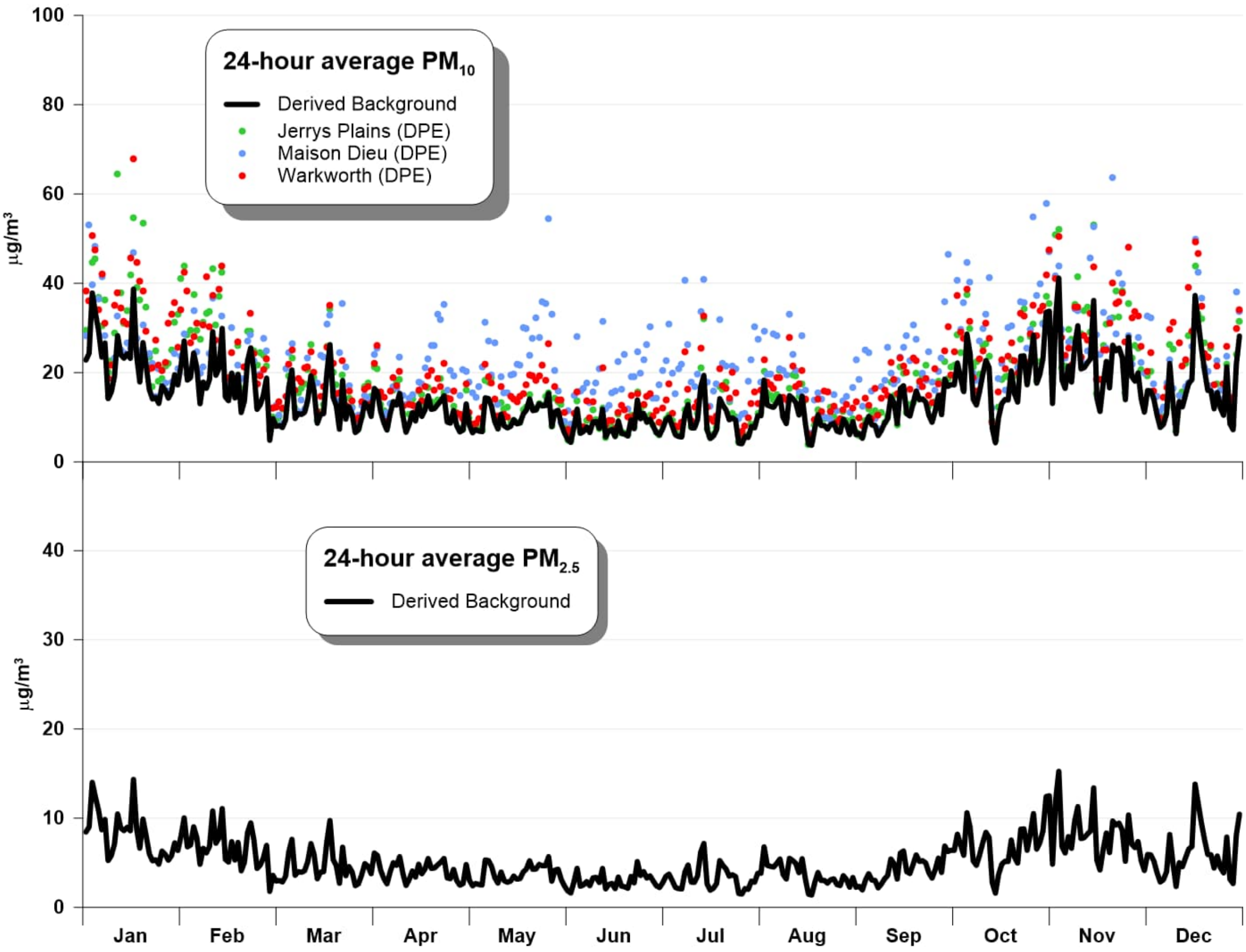



Figure 18 Background $PM_{10}$ and $PM_{2.5}$ concentrations as inferred from the measurement data

**Table 15** shows the assumed background levels that apply at sensitive receptors, taking into account the objectives described above. These levels (or approach) have been added to Project contributions to determine the potential cumulative impacts.

Table 15 Assumed background levels that apply at sensitive receptors

| Air quality indicator | Averaging time(s) | Assumed background level that applies at sensitive receptors | Notes |
|---|---|---|---|
| Particulate matter ($PM_{10}$) | 24-hour<br>Annual | Variable by day<br>(see Figure 18) | An hourly variable background dataset was derived (see **Figure 18**) and added to the model results. This dataset was created by using the minimum measured non-zero $PM_{10}$ concentration from all DPE monitors for each hour in the representative year (2014). Statistics from the resultant dataset are as follows:<br>- Maximum 24-hour average = 41 $\mu g/m^3$<br>- Annual average = 14 $\mu g/m^3$<br>The data derived above have been added to the modelled Project contributions for the assessment of potential cumulative impacts, in accordance with EPA guidelines. |
| Particulate matter ($PM_{2.5}$) | 24-hour<br>Annual | Variable by day<br>(see Figure 18) | An hourly variable background dataset was derived (see **Figure 18**) and added to the model results. It was assumed that the background $PM_{2.5}$ concentrations would follow the same profile as the derived background $PM_{10}$ concentrations but with an annual average that matched the available and more recently (2020) measured $PM_{2.5}$ concentrations near the Project, as described in **Section 4.3.3**.<br>Statistics from the resultant dataset are as follows:<br>- Maximum 24-hour average = 15.3 $\mu g/m^3$<br>- Annual average = 5.2 $\mu g/m^3$<br>The data derived above are more conservative than historical estimates (for example, TAS, 2017) and have been added to the modelled Project contributions for the assessment of potential cumulative impacts, in accordance with EPA guidelines. |
| Particulate matter (TSP) | Annual | 57 $\mu g/m^3$ | Annual average TSP concentration in the representative year (2014) from Kilburnie South, a location least likely to be influenced by contributions from modelled sources. |
| Deposited dust | Annual | 2.5 $g/m^2$/month | Annual average deposited dust level in the representative year (2014) from Jerrys Plains, a location least likely to be influenced by contributions from modelled sources. |
| Nitrogen dioxide ($NO_2$) | 1-hour | 74 $\mu g/m^3$ | Maximum 1-hour average $NO_2$ concentration in the representative year (2014) from Singleton. |
| | Annual | 16 $\mu g/m^3$ | Annual average $NO_2$ concentration in the representative year (2014) from Singleton. |

# 5. Assessment Methodology

This assessment has followed the procedures outlined in the Approved Methods (EPA, 2022). The Approved Methods include guidelines for the preparation of meteorological data, reporting requirements and air quality assessment criteria to assess the significance of potential impacts.

One of the main objectives of this assessment was to determine air quality outcomes for the neighbouring residential areas near the Project. These areas include Jerrys Plains, Warkworth, Maison Dieu and Long Point.

Specific methodologies for each of the identified key issues (from **Section 2**) are described below.

## 5.1 Construction Dust

Dust emissions from construction works have the potential to cause nuisance impacts if not properly managed. In practice, it is not possible to realistically quantify impacts using modelling. To do so would require knowledge of weather conditions for the period in which work will be taking place in each location on the site. The potential significance and impacts of construction dust have therefore been determined from a qualitative review, taking into consideration the intensity, scale, location and duration of the proposed works. **Section 7.1** provides the assessment of construction dust.

## 5.2 Operational Dust

Operational dust has been quantified by modelling. The choice of model has considered the expected transport distances for the emissions, as well as the potential for temporally and spatially varying flow fields due to influences of the locally complex terrain, non-uniform land use, and potential for stagnation conditions characterised by calm or very low wind speeds with variable wind directions. The CALPUFF model has been selected. This model is specifically listed in the Approved Methods and has been used to predict ground-level particulate matter concentrations and deposition levels due to the Project and other sources. Concentrations and deposition levels have been simulated for every hour of the representative year and results at local communities and sensitive receptors have then been compared to the relevant air quality assessment criteria.

**Figure 19** shows and overview of the model inputs. **Appendix C** provides details of all model settings.

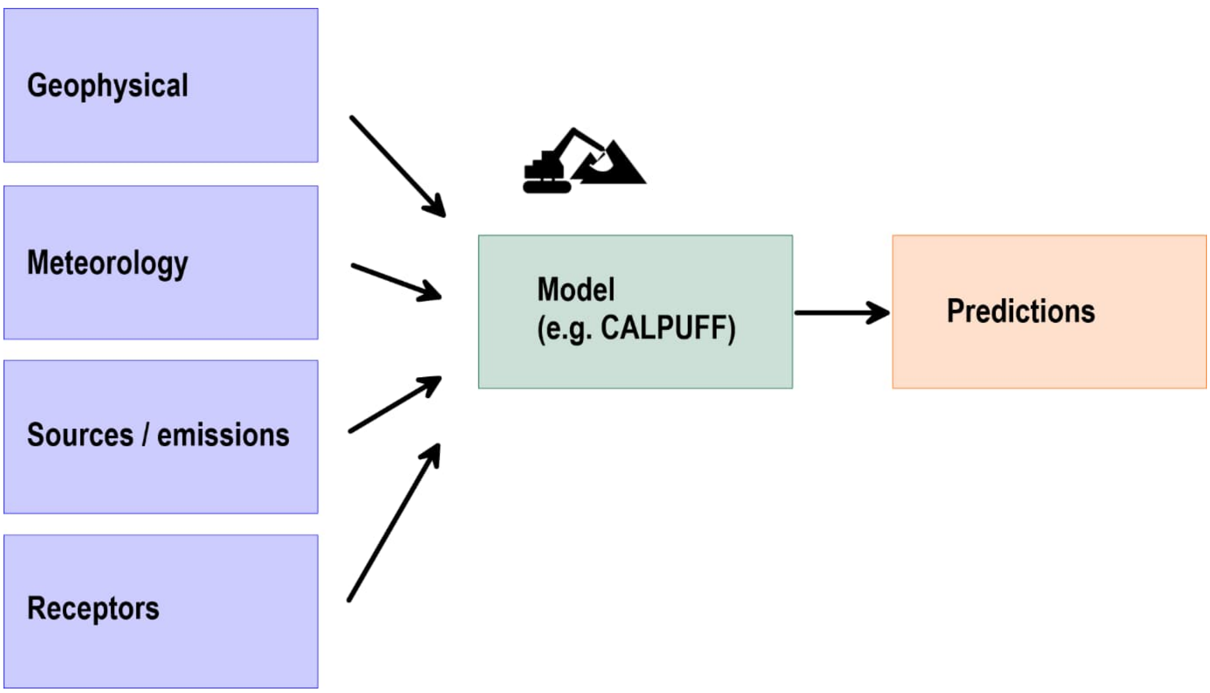



Figure 19 Overview of model inputs

Dust (particulate matter) is the most significant emission to air during the operational phase of the Project and estimates of these emissions are required by the dispersion model. Total dust emissions have been estimated for selected operational scenarios using the material handling schedule, equipment listing and mine plans combined with emission factors from:

- *Emission Estimation Technique Manual for Mining* (NPI, 2012); and
- AP 42 (US EPA 1985 and updates).

The Project production schedule has been used to identify a range of future operational years to be assessed. **Figure 20** shows the estimated ROM coal and overburden movements over the life of the Project. There are no specific guidelines or procedures which define an adequate level of information to demonstrate that selected scenarios are representative of worst-case impacts. The worst-case for one location may be different to the worst-case for another location so it is important to consider scenarios of mining at various locations and intensities as well as potential for cumulative effects with other existing or approved operations.

Five future operational scenarios have been selected; Year 3, Year 7, Year 11, Year 18 and Year 22. These years address the maximum material handling quantities, maximum haul distances, varying proximities to local communities, and combined interactions with other existing or approved mining operations.

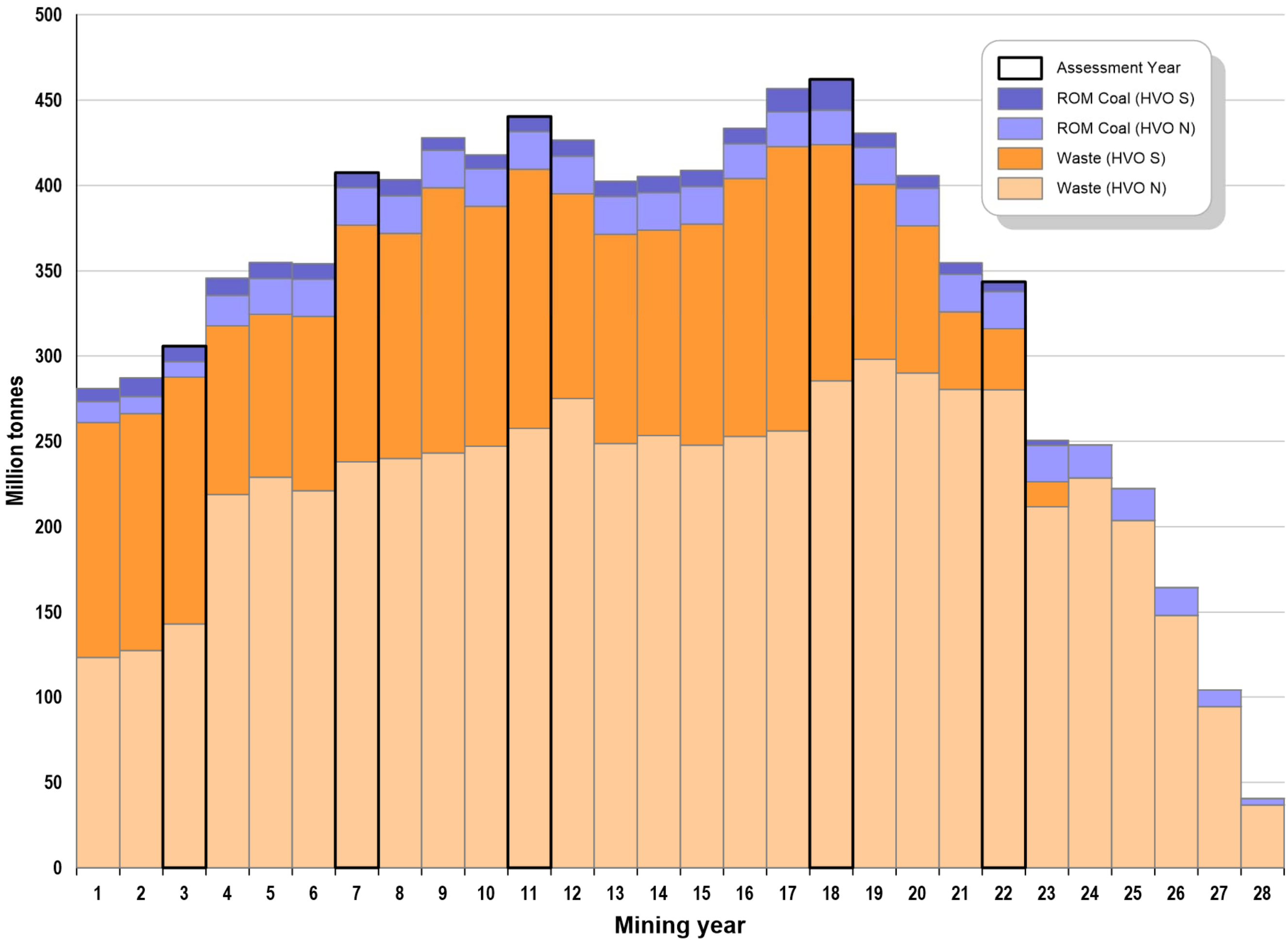



Figure 20 Estimated ROM coal and overburden movements over the life of the Project

A scenario for a historical, representative year (2014) was also developed to evaluate the performance of the model. For this scenario the model results were compared to monitored results to determine the level of confidence that can be assumed for the future scenarios. The assessment focussed primarily on the performance of the model for predicting $PM_{10}$ as the air quality review (**Section 4.3**) showed that $PM_{10}$ was a key air quality issue due to a higher number of historical exceedances of EPA assessment criteria. TSP and deposited dust were also considered. It was not possible to evaluate the performance of the model for predicting $PM_{2.5}$ or $NO_2$ as there are insufficient $PM_{2.5}$ or $NO_x$ monitors in the model domain to allow for a comparison between measured and modelled levels.

The modelling has considered contributions from the Project as well as from existing, surrounding mining operations, and in the case of future operating scenarios, approved mining operations. **Table 16** shows the assumed ROM coal production data from each operation in the model domain. The data for 2014 were derived from the Annual Review produced by each mining operation and available on their respective websites. The Annual Reviews also included overburden handling quantities and plans showing the mining locations which are important for determining site dust emissions.

Production data and location of mining operations for future mining scenarios have been sourced from publicly available materials including relevant assessment documents (i.e. Environmental Assessments, EIS etc.) for the existing and approved operations. These have been included in the model for future mining scenarios reflective of their current approved life and maximum approved production limit in accordance with the development consent in place at the time of completing this assessment. Estimated production quantities for the Project were provided by HVO.

Table 16 Assumed ROM coal production from each mining operation in the model domain

| Operation | **ROM coal production (Mtpa)**. Future calendar years are indicative | | | | | |
|---|---|---|---|---|---|---|
| | **2014** | **Year 3 (2025)** | **Year 7 (2029)** | **Year 11 (2033)** | **Year 18 (2040)** | **Year 22 (2044)** |
| HVO North (DA 450-10-2003) | 9.4 | Figure 20 | Figure 20 | Figure 20 | Figure 20 | Figure 20 |
| HVO South (MP 06_0261) | 8.6 | Figure 20 | Figure 20 | Figure 20 | Figure 20 | Figure 20 |
| Ashton Coal Underground (DA 309-11-2001-i) *** | 2.8 | - | - | - | - | - |
| Glendell Mine* (SSD-9349) | 4.4 | 10 | 10 | 10 | 10 | 10 |
| Integra Underground (PA 08_0101) ** | 0.8 | 4.5 | 4.5 | 4.5 | - | - |
| Liddell Mine (DA 305-11-01) | 6.7 | - | - | - | - | - |
| Mt Owen Mine (SSD-5850) | 10 | 10 | 10 | 10 | - | - |
| Mt Thorley Mine (SSD 6465) | 6.3 | 10 | 10 | 10 | - | - |
| Ravensworth Mine (09_0176) | 10.9 | 16 | 16 | 16 | 16 | - |
| Rixs Creek North Mine (MP 08_0102) | C&M | 6 | 6 | 6 | - | - |
| Rixs Creek South Mine (SSD 6300) | 2.8 | 3.6 | 3.6 | 3.6 | 3.6 | - |
| United Wambo Mine (SSD-7142) | - | 10 | 10 | 10 | 10 | - |
| Wambo Mine (DA 305-7-2003 & DA 177-8-2004) | 5.4 | 17.75 | 17.75 | 17.75 | 17.75 | - |
| Warkworth Mine (SSD 6464) | 11.4 | 18 | 18 | 18 | - | - |

* Application was recently (28/10/22) refused after the completion of modelling for the Project. Model is therefore conservative. ** Likely to close at the end of 2023. Kept in this assessment for conservatism. *** Modification 11 now approved up to the end of 2035. This will not have any material impact on the current assessment outcomes. C&M: operation in care and maintenance.

**Table 17**, **Table 18** and **Table 19** summarise the estimated annual TSP, $PM_{10}$ and $PM_{2.5}$ emissions, respectively, due to the Project as well as all other operating, or assumed to be operating, mines in the model domain. It should be noted that the main intent of the inventories was to capture the most significant emission sources that may affect off-site air quality. Not every source will be captured. However, the contribution of emissions from sources not identified will be captured in the air quality monitoring data and these data have been added to the predicted Project contributions. Full details on the emission calculations, including assumptions, emission controls and allocation of emissions to modelled locations are provided in **Appendix D**.

Table 17 Estimated TSP emissions

| Operation | Annual TSP emissions (kg/y). Future calendar years are indicative | | | | | |
|---|---|---|---|---|---|---|
| | 2014 | Year 3 (2025) | Year 7 (2029) | Year 11 (2033) | Year 18 (2040) | Year 22 (2044) |
| HVO North | 4,676,091 | 7,346,725 | 12,253,254 | 12,819,896 | 13,416,021 | 13,445,626 |
| HVO South | 7,851,589 | 7,269,485 | 6,671,135 | 6,966,646 | 6,994,480 | 2,527,939 |
| Ashton Coal Underground [1] | 114,780 | - | - | - | - | - |
| Glendell Mine* [1] | 2,411,539 | 3,274,887 | 3,274,887 | 5,017,124 | 2,992,017 | 2,992,017 |
| Integra Underground [1] | 114,683 | 115,112 | 115,112 | 115,112 | - | - |
| Liddell Mine [1] | 3,688,178 | - | - | - | - | - |
| Mt Owen Mine [1] | 3,370,232 | 4,308,656 | 4,308,656 | 2,548,849 | - | - |
| - Ravensworth East [1] | 1,312,714 | - | - | - | - | - |
| Mt Thorley (inc Warkworth Mine) [2] | 4,287,021 | 6,340,276 | 6,340,276 | 6,340,276 | - | - |
| Ravensworth Mine [1] | 5,941,622 | 7,440,069 | 7,440,069 | 7,440,069 | 7,440,069 | - |
| Rixs Creek North Mine [1] | 210,391 | 2,163,828 | 2,163,828 | 2,163,828 | - | - |
| Rixs Creek South Mine [1] | 2,199,466 | 2,635,613 | 2,635,613 | 2,635,613 | 1,660,436 | - |
| United Wambo Mine (inc Wambo) [2] | 2,338,708 | 4,090,555 | 3,878,712 | 3,869,962 | 1,509,285 | - |

* Application was recently (28/10/22) refused after the completion of modelling for the Project. Model is therefore conservative. [1] From method outlined in Jacobs, 2019. [2] From method outlined in Jacobs, 2018.

Table 18 Estimated $PM_{10}$ emissions

| Operation | Annual $PM_{10}$ emissions (kg/y). Future calendar years are indicative | | | | | |
|---|---|---|---|---|---|---|
| | 2014 | Year 3 (2025) | Year 7 (2029) | Year 11 (2033) | Year 18 (2040) | Year 22 (2044) |
| HVO North | 1,564,716 | 2,485,357 | 3,890,963 | 4,088,883 | 4,324,304 | 4,322,811 |
| HVO South | 2,487,886 | 2,431,378 | 2,160,977 | 2,273,657 | 2,225,077 | 878,496 |
| Ashton Coal Underground [1] | 37,909 | - | - | - | - | - |
| Glendell Mine* [1] | 721,190 | 1,037,423 | 1,037,423 | 1,522,894 | 936,928 | |
| Integra Underground [1] | 37,863 | 38,066 | 38,066 | 38,066 | - | - |
| Liddell Mine [1] | 1,147,692 | - | - | - | - | - |
| Mt Owen Mine [1] | 1,034,433 | 1,357,907 | 1,357,907 | 828,949 | - | - |
| - Ravensworth East [1] | 394,549 | - | - | - | - | - |
| Mt Thorley (inc Warkworth Mine) [2] | 1,436,640 | 2,046,153 | 2,046,153 | 2,046,153 | - | - |
| Ravensworth Mine [1] | 1,940,467 | 2,414,566 | 2,414,566 | 2,414,566 | 2,414,566 | - |
| Rixs Creek North Mine [1] | 108,449 | 691,822 | 691,822 | 691,822 | - | - |
| Rixs Creek South Mine [1] | 682,901 | 811,805 | 811,805 | 811,805 | 511,437 | - |
| United Wambo Mine (inc Wambo) [2] | 784,068 | 1,350,845 | 1,265,919 | 1,295,987 | 505,434 | - |

* Application was recently (28/10/22) refused after the completion of modelling for the Project. Model is therefore conservative. [1] From method outlined in Jacobs, 2019. [2] From method outlined in Jacobs, 2018.

Table 19 Estimated $PM_{2.5}$ emissions

| Operation | Annual $PM_{2.5}$ emissions (kg/y) . Future calendar years are indicative | | | | | |
|---|---|---|---|---|---|---|
| | 2014 | Year 3 (2025) | Year 7 (2029) | Year 11 (2033) | Year 18 (2040) | Year 22 (2044) |
| HVO North | 265,529 | 383,166 | 587,421 | 620,603 | 654,496 | 663,428 |
| HVO South | 401,543 | 381,116 | 346,319 | 365,612 | 352,706 | 1476,82 |
| Ashton Coal Underground [1] | 3,530 | - | - | - | - | - |
| Glendell Mine* [1] | 130,163 | 191,639 | 191,639 | 287,474 | 173,953 | 173,953 |
| Integra Underground [1] | 3,523 | 3,554 | 3,554 | 3,554 | - | - |
| Liddell Mine [1] | 180,926 | - | - | - | - | - |
| Mt Owen Mine [1]<br>- Ravensworth East [1] | 150,460<br>69,396 | 207,027<br>- | 207,027<br>- | 134,230<br>- | -<br>- | -<br>- |
| Mt Thorley (inc Warkworth Mine) [2] | 217,559 | 305,553 | 305,553 | 305,553 | - | - |
| Ravensworth Mine [1] | 290,083 | 345,834 | 345,834 | 345,834 | 345,834 | - |
| Rixs Creek North Mine [1] | 15,779 | 111,572 | 111,572 | 111,572 | - | - |
| Rixs Creek South Mine [1] | 118,692 | 133,542 | 133,542 | 133,542 | 84,131 | - |
| United Wambo Mine (inc Wambo) [2] | 127,642 | 214,775 | 204,971 | 209,031 | 81,522 | - |

* Application was recently (28/10/22) refused after the completion of modelling for the Project. Model is therefore conservative. [1] From method outlined in Jacobs, 2019. [2] From method outlined in Jacobs, 2018.

Emission estimates for 2014 were based on the production and material handling quantities contained in the respective Annual Reviews. Estimates for future years were based on the maximum approved production rates as per the relevant development consents with some exceptions as noted in the tables. It has also been assumed that the proposed but not yet approved projects will be operating in the future. These assumptions mean that the model predictions will likely over-state actual impacts as the mines are not likely to operate at their maximum approved production rate in each year.

Emissions from other mining operations were important for quantifying the potential cumulative impacts. Two approaches were considered for estimating emissions from other mining operations. These approaches included:

- Deriving emission estimates from previously published EIS data; or
- Recalculating emissions from other mines in the model domain specifically for this assessment.

The approach of recalculating emissions from other mining operations in the model domain has been chosen for this assessment, where detailed inventories were not available. This approach has been favoured because it maintains consistency in the emission calculation methods for all mining operations. It also has the following advantages over recent EIS data:

- TSP, $PM_{10}$ and $PM_{2.5}$ can be separated for each activity for each mining operations. To date, most EIS air quality assessments have only calculated TSP emissions, with $PM_{10}$ and $PM_{2.5}$ emissions derived from regional ratios such as those published by the SPCC (1986).
- The proportions of wind sensitive, wind insensitive and wind erosion activities can be more accurately defined. Historical assessments have often applied fixed ratios of these three activity types, usually based on information from the Mt Arthur Mine EIS (URS 2000).
- Pit retention can be modelled and the adjusted emissions can be made specific to each activity and the hourly wind speed.

- Triggered control factors can be modelled. For example, the effect of rainfall for suppressing dust from exposed areas can be simulated for relevant hours in the year.

There are also disadvantages to the approach of recalculating emissions from other mines. The main disadvantages are potential inconsistencies between the emission estimates and other published EIS emissions data, and the inability to precisely match source locations to future mine plans. However, it will be seen in **Section 7**, that the emission estimation approach combined with model setup assumptions has produced results which do not underestimate average concentrations at the key sensitive receptor locations.

The modelling has assumed that operations will be managed in accordance with the existing Air Quality and Greenhouse Gas Management Plan, however there will be additional operational controls in place at the HVO Complex that will also have a direct effect on emissions to air. Specifically, HVO is committed to the continued implementation of operational controls during adverse weather conditions in order to minimise impacts. The operational controls will result in reduced levels of activity at the HVO Complex relative to the capacity considered as part of the current air quality modelling. In practice these operational controls, which will vary on a daily basis, will lead to lower emissions to air than for unconstrained activities. Consequently the estimated emissions in **Table 17**, **Table 18** and **Table 19** should represent conservative estimates, as these further detailed operational controls are not included, and it follows that the modelled impacts of the Project will also be conservative. That is, the modelled impacts are likely to over-state actual impacts to some extent.

Mining operations were represented by a series of volume sources located according to the location of activities for each modelled scenario. Emissions from the dust generating activities at each operations were assigned to one or more of source location (refer to **Appendix D** for details of the allocations).

Dust emissions for all modelled mine-related sources have been considered to fit in one of three categories, as follows:

- Wind insensitive sources, where emissions are relatively insensitive to wind speed (for example, dozers).
- Wind sensitive sources, where emissions vary with the hourly wind speed, raised to the power of 1.3, a generic relationship published by the US EPA (1987). This relationship has been applied to sources such as loading and unloading of waste to/from trucks and results in increased emissions with increased wind speed.
- Wind sensitive sources, where emissions also vary with the hourly wind speed, but raised to the power of 3, a generic relationship published by Skidmore (1998). This relationship has been applied to sources including wind erosion from stockpiles, overburden emplacement areas or active pits, and results in increased emissions with increased wind speed.

Emissions from each volume source were developed on an hourly time step, taking into account the level of activity at that location and, in some cases, the hourly wind speed. This approach ensured that light winds corresponded with lower dust generation and higher winds, with higher dust generation.

Blasting activities and associated emissions were assumed to take place only during daylight hours. Blasting is allowed from 7 am to 6 pm Monday to Saturday however 9 am to 5 pm has been assumed for the modelling as this is the most common period for blasting. All other activities have been modelled for 24 hours per day.

Pit retention (that is, retention of dust particles within the open pits) has been included in the model simulations. The pit retention calculation determines the fraction of dust emitted in the pit that may escape the pit. The "escaped fraction" is a function of the gravitational settling velocity of the particles and the wind speed and is shown by the following relationship (US EPA, 1995).

**Equation 1:**

$$\varepsilon = \frac{1}{\left(1 + \frac{v_g}{(\alpha U_r)}\right)}$$

where:

$\varepsilon$ = escaped fraction for the particle size category

$V_g$ = gravitational settling velocity (m/s)

$U_r$ = approach wind speed at 10 m (m/s)

$\alpha$ = proportionality constant in the relationship between flux from the pit and the product of $U_r$ and concentration in the pit (0.029)

To model the effect of pit retention, the emissions from mining sources within the open pits have been reduced, as per the calculation above. This approach means that much of the coarser dust would remain trapped in the pits. Typically, five per cent of the $PM_{10}$ emissions are trapped in the pit using this calculation.

Finally, the model results at identified sensitive receptors were then compared with the EPA air quality assessment criteria, previously discussed in **Section 3.1**. Contour plots have also been created to show the spatial distribution of model results. **Section 7.2** provides the assessment of operational dust.

## 5.3 Operational Post Blast Fume

Blasting activities have the potential to result in fume and particulate matter emissions. Particulate matter emissions from blasting are produced from the modelling discussed in **Section 5.2**. Post-blast fume has also been quantified by modelling.

Post-blast fume can be produced in non-ideal explosive conditions of the ammonium nitrate/fuel oil (ANFO) and is visible as an orange / brown plume. The fumes comprise of $NO_x$ including NO and $NO_2$ and from the $NO_x$ monitoring in the Hunter Valley (**Section 4.3.6**) the percentage of $NO_2$ in the $NO_x$ is inversely proportional to the total $NO_x$ concentration. When $NO_x$ concentrations are high, the percentage of $NO_2$ in the $NO_x$ is typically of the order of 20%.

The methodology for the operational post-blast fume modelling is outlined below:

- Blasts modelled as single volume sources in locations indicative of the centre of HVO North and HVO South.
- Release heights of 20 m, effective plume heights of 40 m, initial horizontal spread (sigma y) of 25 m and initial vertical spread (sigma z) of 10 m. These are conservative estimates based on the data presented by Attalla *et al*. (2008). No plume rise due to buoyancy was modelled, which is again a conservative assumption.
- Emissions assumed to occur every hour between 9 am and 5 pm. It is noted that blasting is allowed from 7 am to 6 pm Monday to Saturday however 9 am to 5 pm has been assumed for the modelling as this is the most common period for blasting.
- Blasting could be on any day of the week (a conservative assumption as, in accordance with the current development consent and project approval, blasting cannot occur on Sundays or public holidays unless written approval is obtained from the administering authority).
- $NO_x$ emissions based on data presented in the Queensland *Guidance Note for the management of oxides in open cut blasting* (DEEDI, 2011). It was conservatively assumed that the initial $NO_2$ concentration in the plume would be 7 ppm (14.4 mg/m$^3$) based on the Rating 2 Fume Category in the Queensland Guidance Note. Of the 469 blasts that occurred between January 2019 to December 2020, 77% were rated as category 0, 13% were rated as category 1, 9% were rated as category 2 and 1% were rated as category 3. The assumption of a blast fume rating of 2 for every hour is therefore very conservative.

- The initial $NO_2$ concentration in the plume was converted to a total $NO_x$ emission rate based on a detailed measurement program of $NO_x$ in blast plumes in the Hunter Valley made by Attalla *et al*. (2008) which found that the NO:$NO_2$ ratio was typically 27:1, giving a $NO_x$:$NO_2$ ratio of approximately 18.6 g $NO_x$/g $NO_2$.
- Calculated emission of 356 g/s of $NO_x$ per blast and an emission release time of 5 minutes.
- 20% of the $NO_x$ is $NO_2$ at the points of maximum 1-hour average concentrations and at sensitive receptors.

Model results for post-blast fume have been compared to the applicable EPA air quality assessment criterion for $NO_2$; that is 164 µg/m$^3$ as a 1-hour average and taking background levels into account. **Section 7.2.5** provides the assessment of operational post blast fume.

## 5.4 Operational Diesel Exhaust

Emissions from diesel exhausts associated with off-road vehicles and equipment at mine sites are often deemed a lower air quality impact risk than dust emissions from the material handling activities. This is because of the relatively few emission sources involved, for example when compared to a busy motorway, and the large distances between the sources and sensitive receptors. Nevertheless, a review of the potential impacts has been carried out, including modelling to quantify the potential impacts.

The most significant emissions from diesel exhausts are products of combustion including CO, $NO_x$, $PM_{10}$ and $PM_{2.5}$. It is the $NO_x$, or more specifically $NO_2$, and $PM_{10}$ (including $PM_{2.5}$) which have been assessed. DPE monitoring data have shown that CO concentrations have not exceeded relevant air quality criteria at rural or urban monitoring stations in NSW, indicating that this indicator represents a much lower air quality risk.

The modelling for operational dust (**Section 5.2**) has considered emission factors that represent the contribution from both wheel generated particulates and the exhaust particulates. These emission factors, including with control factors, are based on measured emissions which included diesel particulates in the form of both $PM_{10}$ and $PM_{2.5}$. The emission factors are also likely to include more diesel exhaust particulate than from a modern truck as the factors were developed on the basis of emissions from trucks measured in the 1980s (that is, older trucks). Todoroski Air Sciences has also reported (TAS, 2016) that several studies, reported to the EPA, confirmed that a control factor of 85% can be maintained, representing all components of the truck haulage emission. This information highlights that the potential impacts of diesel exhaust emissions (as $PM_{10}$ and $PM_{2.5}$) are represented in the model results for operational dust (**Section 7.2**).

**Table 20** provides the explicit estimates of $PM_{10}$ and $PM_{2.5}$ emissions due only to diesel plant and equipment exhausts. Emission factors for "Industrial off-road vehicles and equipment" from the EPA's 2008 Air Emissions Inventory (EPA, 2012) were used for the calculations and it has been assumed that there will be no reduction to emissions in the future; a conservative approach. These factors relate to diesel exhaust and evaporative emissions.

Table 20 Estimated $PM_{10}$ and $PM_{2.5}$ emissions from diesel engines

| Parameter | Year 3 (2025) | Year 7 (2029) | Year 11 (2033) | Year 18 (2040) | Year 22 (2044) |
|---|---|---|---|---|---|
| Estimated fuel usage (kL) (source: HVO) | 141,420 | 155,566 | 193,804 | 225,416 | 169,304 |
| **$PM_{10}$ calculations** | | | | | |
| Diesel exhaust emission factor (kg/kL) | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| Diesel exhaust emissions - all equipment (kg/y) | 401,634 | 441,807 | 550,403 | 640,181 | 480,823 |
| **$PM_{2.5}$ calculations** | | | | | |
| Diesel exhaust emission factor (kg/kL) | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| Diesel exhaust emissions - all equipment (kg/y) | 389,585 | 428,553 | 533,891 | 620,976 | 466,398 |

Emissions of $NO_x$ from diesel exhausts have been estimated using fuel consumption data, provided by HVO, and an emission factor from the EPA's Air Emissions Inventory for 2008 (EPA, 2012). **Table 21** shows the calculations. Again, it has been assumed that there will be no reduction to emissions in the future; a conservative approach.

Table 21 Estimated $NO_x$ emissions from diesel engines

| Parameter | Year 3 (2025) | Year 7 (2029) | Year 11 (2033) | Year 18 (2040) | Year 22 (2044) |
|---|---|---|---|---|---|
| Estimated fuel usage (kL) (source: HVO) | 141,420 | 155,566 | 193,804 | 225,416 | 169,304 |
| **$NO_x$ calculations** | | | | | |
| Exhaust emission factor (kg/kL) | 40.77 | 40.77 | 40.77 | 40.77 | 40.77 |
| Exhaust emissions - all equipment (kg/y) | 5,765,705 | 6,342,418 | 7,901,386 | 9,190,206 | 6,902,516 |

The $NO_x$ emission estimates for Year 18 from **Table 21** have been explicitly modelled to provide an indication of the off-site $NO_2$ concentrations due to diesel exhaust emissions. **Section 7.4** provides the assessment of operational diesel exhaust.

## 5.5 Greenhouse Gas Emissions

The GHG inventory in this document has been calculated in accordance with the principles of the GHG Protocol and based primarily on the National Greenhouse Accounts (NGA) Factors as the NGA Factors are referred to in the SEARs for the purposes of project assessment. The NGA Factors is not published for the purposes of reporting under the NGER Act.

The initial actions for a greenhouse gas inventory are to determine the sources of greenhouse gas emissions, assess their likely significance and set a boundary for the assessment. Creating an inventory of the likely GHG emissions associated with the Project has the benefit of determining the scale of the emissions and providing a baseline from which to develop and deliver GHG reduction options.

The results of this assessment are presented in terms of the previously mentioned 'Scopes' to help understand the direct and indirect impacts of the Project. The GHG Protocol (and similar reporting schemes) dictates that reporting Scope 1 and 2 sources is mandatory, whilst reporting Scope 3 sources is optional. Reporting *significant* Scope 3 sources is recommended. Scope 3 emissions are a consequence of the activities of the company, but occur from sources not owned or controlled by the company. Some examples of Scope 3 activities include the extraction and production of purchased materials, transportation of purchased fuels, and use of sold products (i.e. burning of coal) and services. The inventory for this assessment includes all significant sources of GHGs (Scopes 1, 2 and 3) associated with the Project.

GHG emissions associated with operation of the HVO Complex are well understood, given that the mine is currently operating. Future projections of production, fuel usage and electricity usage (from HVO) were used to determine the additional greenhouse gas emissions from the Project. **Table 22** shows the key emission sources that have been considered in this assessment as well as the greenhouse gas emission estimation methodologies.

Table 22 Greenhouse gas emission sources and estimation methodologies

| Activity | Description | Scope(s) | Emission estimation methodology |
|---|---|---|---|
| **Construction** | | | |
| Diesel usage | Combustion of diesel fuel from mobile and stationary plant and equipment. | 1, 3 | Emission factors from NGA Factors (DISER, 2021). |
| Vegetation | Loss of carbon sink due to removal of vegetation. | 1 | Calculated using "Carbon Gauge" developed by the Transport Authorities Greenhouse Group (TAGG, 2013) with total emissions |

| Activity | Description | Scope(s) | Emission estimation methodology |
|---|---|---|---|
| | | | distributed over the mine life in proportion to the ROM coal. Vegetation assumed to be "Class D Open woodlands". Biomass class set to "Class 3:100-150 (tonnes of dry matter per hectare [t dry matter/ha])" based on Project location. |
| Materials | Embodied energy of materials | 3 | Emission factors from the Infrastructure Sustainability Materials Calculator (ISMC) Version 2.0, developed by the ISCA (ISCA, 2019) including life cycle inventories and weighting factors (LCI, 2016). |
| Materials transport | Transport of materials to site | 3 | Emission factors from the Infrastructure Sustainability Materials Calculator (ISMC) Version 2.0, developed by the ISCA (ISCA, 2019) including life cycle inventories and weighting factors (LCI, 2016). |
| **Operation** | | | |
| Diesel usage | Combustion of diesel fuel from mobile and stationary plant and equipment. | 1, 3 | Emission factors from NGA Factors (DISER, 2021). |
| Fugitive | Fugitive emissions from the extraction of coal. | 1 | Emission factor of 0.014 t $CO_2$-e/t ROM based on historical NGERS reporting using Method 2 of Measurement Determination. Fugitive emissions post mining (for open cut mines) will reduce over time as mine voids fill with water, reducing the gas desorption from the coal. |
| Blasting | Detonation of explosives used for blasting. | 1 | Emission factors from NGA Factors (DCC, 2008). Blasting emissions are not reported in recent NGA Factors publications. |
| Electricity | Electricity usage. | 2, 3 | Emission factors from NGA Factors (DISER, 2021). |
| Transport (rail) | Transport of product coal by rail to port. | 3 | Emission factors from the Department for Environment, Food and Rural Affairs (DEFRA) (2019), based on "Freighting goods / freight train". 150 km assumed distance from mine to port. |
| Transport (shipping) | Transport of product coal by ship to market. | 3 | Emission factors from DEFRA (2019), based on "Freighting goods / cargo ship, bulk carrier". 8,000 km assumed distance from port to market (nominally South Korea, Japan). |
| Energy production | Combustion of thermal coal in power generators by end users. | 3 | Emission factors from NGA Factors (DISER, 2021). |
| Coking coal | Combustion of coking coal by end users. | 3 | Emission factors from NGA Factors (DISER, 2021). |

**Section 8** provides the assessment of greenhouse gas emissions.

# 6. Air Quality Model Performance

The performance of the model for simulating existing air quality conditions has been evaluated. This involved comparing model results with measurements for the representative year using information on meteorological and operating conditions at the time in order to establish the likely confidence in the model for future operations.

It should be noted that the ROM coal production at HVO in the representative year (2014) was 18 Mt compared to the approved limit of 38 Mt under previous consents (i.e. 40% lower) and that modelling for the future operations has been carried out assuming up to the proposed maximum material handling quantities at HVO. This means that results from modelling actual production in the representative year will be lower than results from modelling maximum approved production in the representative year. The results for potential future operations, based on maximum production, have been assessed in this context.

The model performance has been evaluated for operational dust impacts including:

- Maximum 24-hour average $PM_{10}$ concentrations;
- Annual average $PM_{10}$ concentrations;
- Annual average TSP concentrations; and
- Annual average dust deposition.

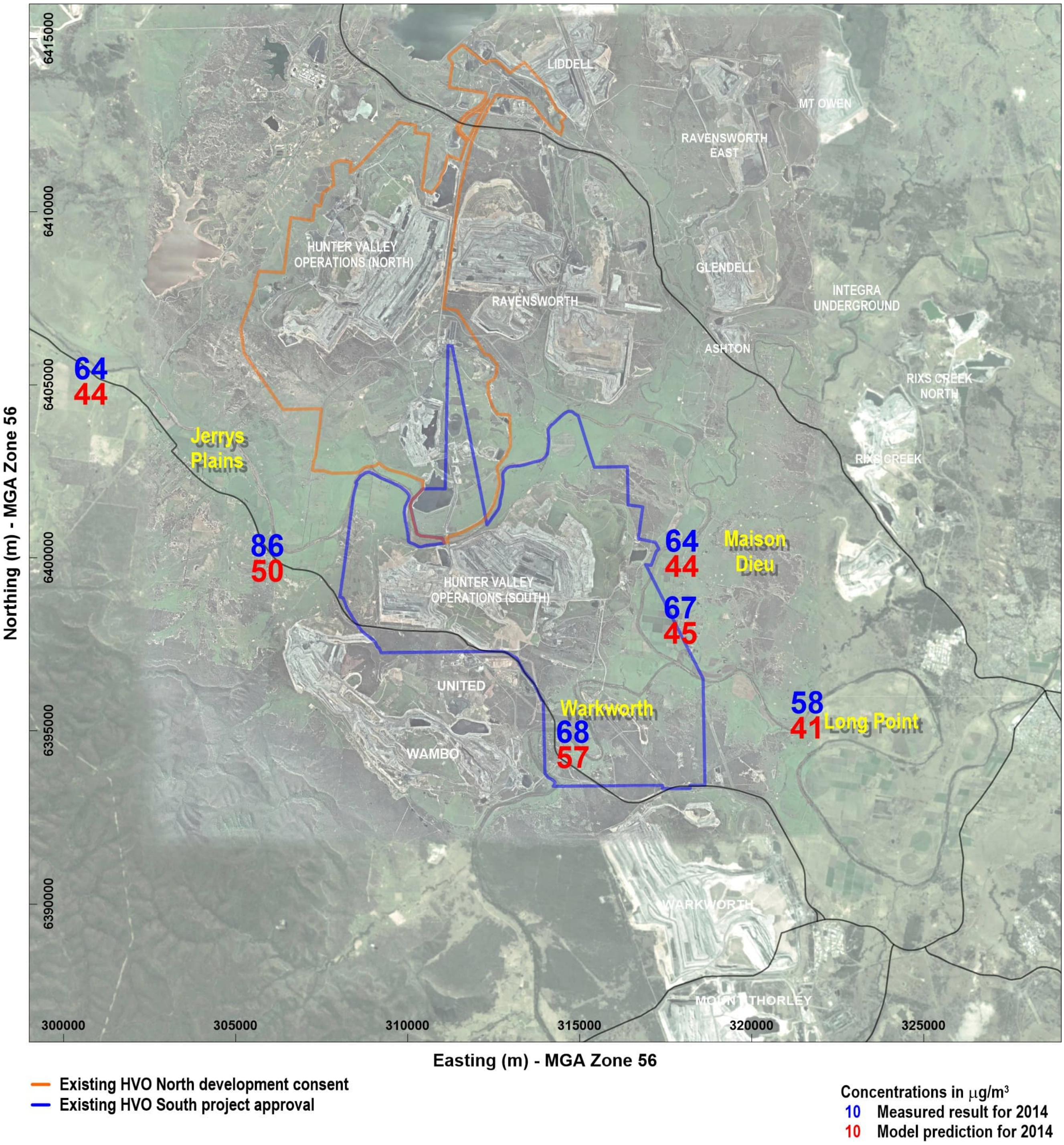
Model performance was not evaluated for $PM_{2.5}$ or $NO_2$ as there are insufficient monitors in the model domain to allow for a comparison between measured and modelled levels.

**Figure 21** shows a comparison of measured and modelled maximum 24-hour average $PM_{10}$ concentrations, based on conditions in 2014. As noted above, these comparisons are useful for determining the confidence in the model predictions for future operations. It should be noted that only one data point is available for each location (that is, the highest value). **Figure 21** shows that the model results for maximum 24-hour averages are typically 25 percent lower than the measured result, depending on the location. These results highlight the difficultly in modelling short-term (24-hour average) concentrations and the highly variable nature of daily $PM_{10}$ concentrations that can often be influenced by events that could not be anticipated.

**Appendix E** provides more detailed comparisons between the measured and modelled results for all percentiles. These comparisons indicated that the modelled maximum 24-hour average $PM_{10}$ concentrations aligned with the measurements as follows:

- 9$^{th}$ highest measurement from Jerrys Plains.
- 14$^{th}$ highest measurement from Maison Dieu.
- Between 1$^{st}$ and 2$^{nd}$ highest measurement from Warkworth.

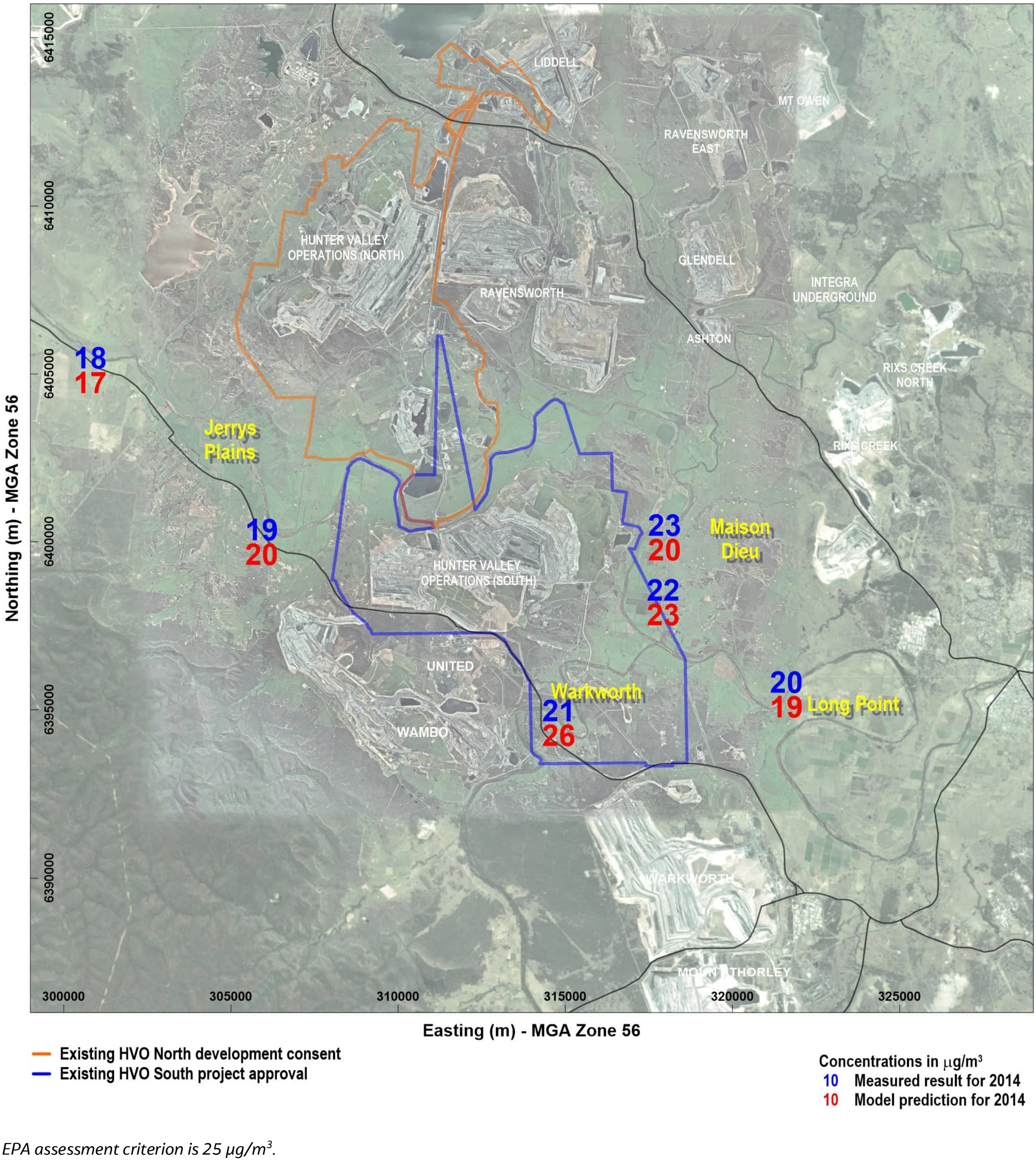
Again, this variability highlights that $PM_{10}$ concentrations are often influenced by events that cannot be anticipated as seen in **Section 4.3**.




*EPA assessment criterion is 50 µg/m³.*

Figure 21 Comparison of measured and modelled maximum 24-hour average $PM_{10}$ concentrations

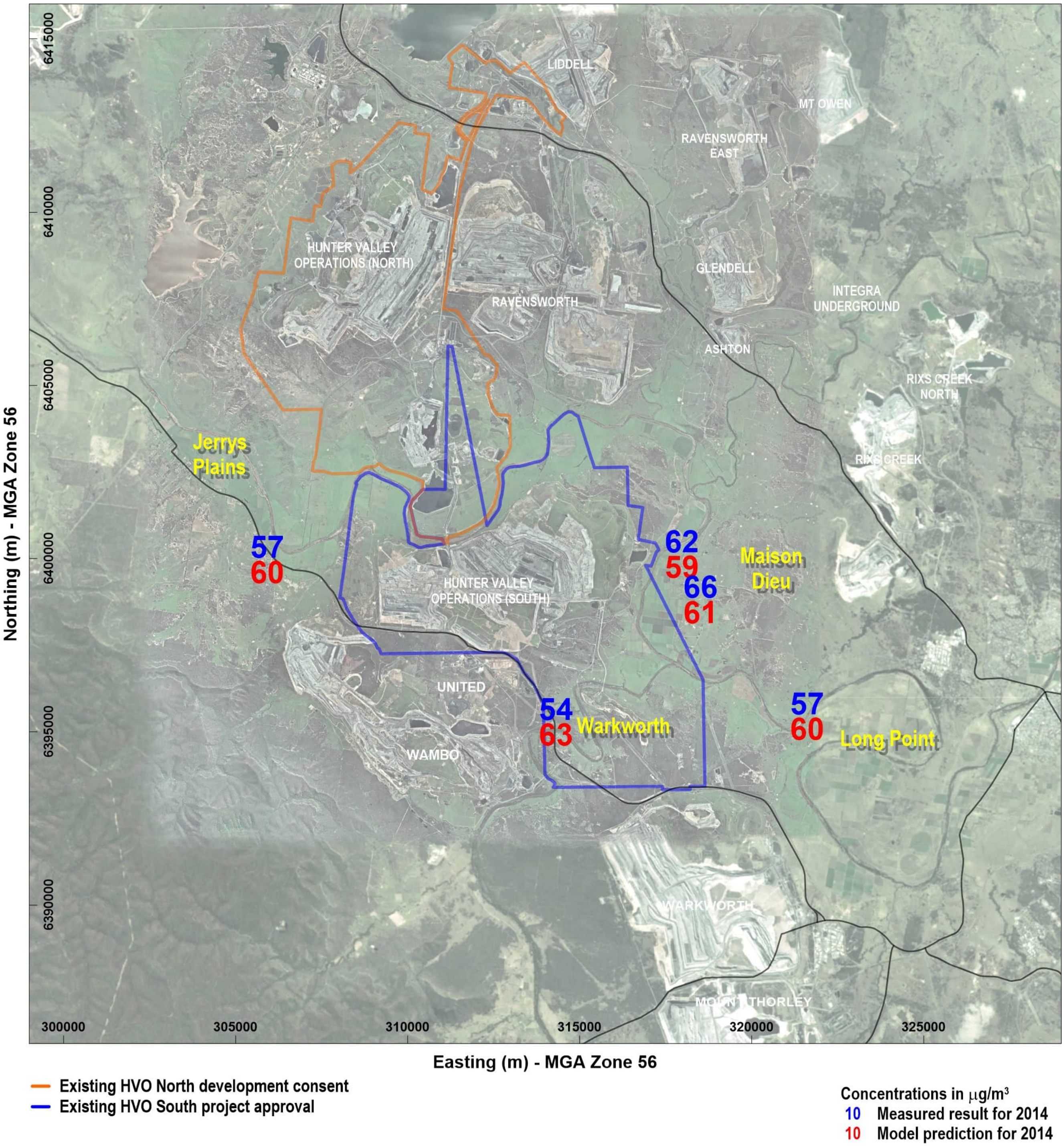
**Figure 22** shows a comparison of the measured and modelled annual average $PM_{10}$ concentrations for 2014. Annual averages are a more reliable statistic than maxima as there are more data points available; that is, 365 days versus one day. The comparison shows that the model results are typically within 1 µg/m$^3$ of the measurements. The exceptions to this are Warkworth, with an over-prediction of 5 µg/m$^3$, and the Maison Dieu monitoring location, with an under-prediction of 3 µg/m$^3$ (although there is also over-prediction at the nearby Knodlers Lane monitor). But overall the comparison indicates that the model is performing well for key sensitive receptor locations. Similar performance may be expected for the simulations of future conditions.




*EPA assessment criterion is 25 µg/m$^3$.*

Figure 22 Comparison of measured and modelled annual average $PM_{10}$ concentrations

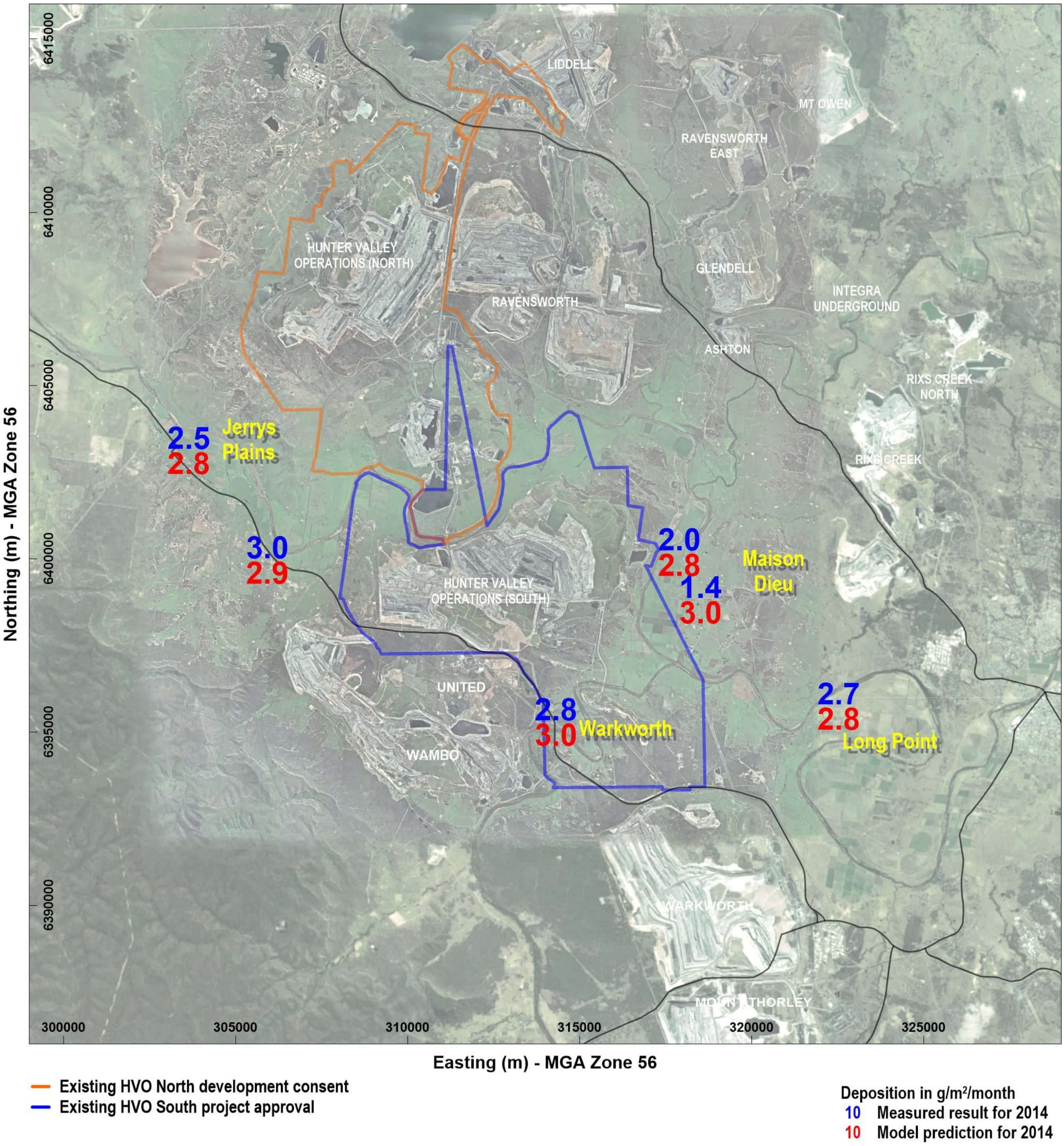
**Figure 23** shows a comparison of the measured and modelled annual average TSP concentrations for 2014. This figure shows that the model results range from eight per cent lower to 17 per cent higher than the measurements, depending on the location.




*EPA assessment criterion is 90 µg/m³.*

Figure 23 Comparison of measured and modelled annual average TSP concentrations

**Figure 24** shows a comparison of the measured and modelled annual average dust deposition levels for 2014. The model results are higher than the measurements at all but one location. Similar performance may therefore be expected from the models of future conditions.




*EPA assessment criterion is 4 g/m²/month.*

Figure 24 Comparison of measured and modelled annual average deposited dust

# 7. Air Quality Assessment

This section provides an assessment of the identified key air quality issues, from **Section 2**.

## 7.1 Construction Dust

Air quality impacts during construction would largely result from dust generated during earthworks and other engineering activities associated with the proposed construction works. Specifically, these works will primarily include:

- Upgrade of the existing Newdell LP and train loading facility and construction of a new product stockpile or extension of the HVLP product coal stockpile.
- Realignment of a section of Lemington Road and new bridge over the Hunter River.
- Realignment of sections of transmission and telecommunication lines.
- Construction of various water management infrastructure including flood protection levees, diversion drains, and enlargement of dams (Lake James and Parnells Dam).
- Construction of a haul road to Ravensworth Operations.

Given the uncertainties related to weather conditions, methods, sequences and material handling quantities, modelling of operational dust (**Section 7.2**) has not explicitly included contributions from construction related activities. However, an assessment of the potential cumulative effects between construction activities and mining operations has been undertaken based on indicative estimates of material handling quantities as well as assumptions on how the construction activities may occur.

**Table 23** shows indicative estimates of material handling quantities for all key construction works, as supplied by HVO. These estimates include excavation, fill, gravel, concrete, and soil, among other materials necessary for specific activities. It is anticipated that most of the construction works will occur in Year 1 to 3. The estimates in **Table 23** will include doubling counting with mine waste but have, nevertheless, been used to develop a construction dust (TSP, $PM_{10}$ and $PM_{2.5}$) emissions inventory for comparison with the Year 3 (2025) mine operational emission inventories.

Table 23 Indicative estimates of construction material handling quantities

| Works | Indicative timing<br>Year 1 = approx. 2023 | Indicative volume of earth / material moved (cubic metres) |
|---|---|---|
| **Construction Phase 1** | | |
| Tailings pipeline connection (HVO to Liddell) | Year 1-3 | 117,100 |
| Transmission and telecommunication line relocations | Year 1-3 | 20,500 |
| HVLP product stockpile extension | Year 1-3 | 57,400 |
| HV MIA upgrades | Year 1-3 | 11,100 |
| HVO North access road relocation | Year 1-3 | 33,800 |
| Lake James enlargement | Year 1-3 | 584,900 |
| Lemington Road realignment | Year 1-3 | 923,400 |
| Mitchell Dam (Dam 2N) | Year 1-3 | 167,400 |
| Mitchell clean water diversion | Year 1-3 | 143,800 |
| Newdell LP upgrades and new product stockpile | Year 1-3 | 842,100 |
| North Pit TSF flood protection levee | Year 1-3 | 154,500 |
| Parnells Dam enlargement | Year 1-3 | 1,806,300 |

| Works | Indicative timing<br>Year 1 = approx. 2023 | Indicative volume of earth / material moved (cubic metres) |
|---|---|---|
| **Future Construction Works** | | |
| Haul road from HVO to Ravensworth Operations | Year 3-4 | 2,128,100 |
| Cheshunt flood protection levee | Year 8 | 302,500 |
| Mitchell flood protection levee | Year 10 | 323,700 |
| Lemington CPP and rail (Year 13-15) | Year 13-15 | 605,100 |
| **Total** | - | 8,221,700 |

The material handling quantities from **Table 23** have been used to develop a construction dust emissions inventory based on the following conservative assumptions:

- All construction phase 1 works will occur concurrently.
- The combined total exposed areas of all work sites (approximately 398 ha) will be susceptible to wind erosion.
- Dust generating activities for construction works will include excavators loading to trucks, haulage by trucks of 50 t capacity, unloading trucks, and continuous wind erosion from exposed areas.
- Trucks will transport the estimated material volumes over unsealed routes for approximately one kilometre. Water carts will be used for dust suppression.

**Table 24** shows the calculated annual emissions due to construction works including the emission estimates for the general operational mining activities (Year 3) for comparison. A conservative approach was taken for all assumptions listed above meaning that the resultant construction emission estimates in **Table 24** will represent maximum upper limits.

Table 24 Estimated emissions due to construction works for the Project

| Air quality indicator | Annual emissions in Year 3 (indicatively 2025) (kg/y) | | Construction as a percentage of operation |
|---|---|---|---|
| | Construction | Mining operation | |
| TSP | 477,052 | 14,616,209 | 3% |
| $PM_{10}$ | 216,977 | 4,916,734 | 4% |
| $PM_{2.5}$ | 31,105 | 764,283 | 4% |

**Table 24** shows that construction emissions have the potential to increase annual operational emissions in Year 3 by a maximum of 3% for TSP, 4% for $PM_{10}$ and 4% for $PM_{2.5}$. These increases are not of a magnitude that will change the air quality outcomes of private sensitive receptors, as described in **Section 7.2**. Consequently, it has been concluded that the proposed construction works are unlikely to cause adverse air quality impacts. However, as for mining operations, it is important that exposed areas be stabilised as quickly as possible and that appropriate dust suppression methods be used to keep dust impacts to a minimum. Dust management will require the use of water carts, the defining of trafficked areas, the imposition of site vehicle speed limits and constraints on work under extreme unfavourable weather conditions, such as dry wind conditions. Monitoring would also need to continue during the construction phase to assess compliance with consent criteria.

## 7.2 Operational Dust

This section provides an assessment of the Project in terms of operational mining dust, based on the methodology described in **Section 5.2**. Model results have been assessed for each of the key particulate matter classifications. For readability, the results have been presented in terms of the contributions from HVO Complex however the individual contributions from HVO North and HVO South can be found in **Appendix F**.

### 7.2.1 Particulate Matter (as $PM_{10}$)

**Figure 25** shows the modelled maximum 24-hour average $PM_{10}$ concentrations due to the Project for each assessment scenario. The EPA does not prescribe a project only assessment criteria for 24-hour average $PM_{10}$, but the VLAMP refers to 50 µg/m$^3$ for the purposes of determining land acquisition and mitigation. The modelling shows that the 50 µg/m$^3$ criterion would not be exceeded at any private sensitive receptor. It should be noted that Warkworth Hall (ID 102) and the Hunter Valley Gliding Club (ID 833) are not considered to be sensitive receptors as they are not regularly occupied.

Compliance with the EPA's 24-hour average $PM_{10}$ criterion of 50 µg/m$^3$ has also been assessed. This criterion relates to the total concentration in the air (that is, cumulative) and not just the contribution from the Project. As noted in **Section 4.3**, most locations around the HVO Complex, and in fact NSW, have historically recorded one or more days each year when the 24-hour average $PM_{10}$ concentration exceeded 50 µg/m$^3$. The model has therefore been configured to show the number of days each year above 50 µg/m$^3$ and an assessment of whether the Project would cause additional exceedances has been made.

**Figure 26** shows the modelled number of days above 50 µg/m$^3$ due to HVO, other mining operations and other sources of $PM_{10}$. These results show that, for a representative year, the residential communities of Jerrys Plains, Maison Dieu and Long Point are expected to experience in the order of between one and five days per year when $PM_{10}$ concentrations exceed 50 µg/m$^3$. This result is within the range of historically measured days when $PM_{10}$ concentrations have exceeded 50 µg/m$^3$, with the exception of extraordinary years such as those years with increased occurrence of dust storms and bushfires. The review of recent and historical air quality monitoring data (**Section 4.3**) showed that, in the representative year (2014), all monitoring locations recorded between one and six days above 50 µg/m$^3$. Based on the modelling the Project is not anticipated to change this outcome.

Additional investigation of the potential for the Project to cause an exceedance of the EPA assessment criteria has been carried out. This involved examining contemporaneous background and mining contributions for each day in the modelling year, referred to as a "Level 2" assessment by the Approved Methods.

**Figure 27** and **Figure 28** show the time series of 24-hour average $PM_{10}$ concentrations at the nearest properties around Maison Dieu and Jerrys Plains; the two closest residential areas. At Maison Dieu (**Figure 27**) the modelling indicates that $PM_{10}$ concentrations are unlikely to exceed 50 µg/m$^3$, not including extraordinary events. At Jerrys Plains (**Figure 28**) the modelled indicates that the highest risk of $PM_{10}$ concentrations exceeding 50 µg/m$^3$ would be when contributions from background sources and other mines are elevated and predominantly around Year 11. The modelling indicates that the combined contributions of HVO North and HVO South have the potential to cause an exceedance of 50 µg/m$^3$ on up to five days in Year 11, with a maximum combined contribution of 13 µg/m$^3$. It is suggested that the potential to cause exceedances of 50 µg/m$^3$ can be managed through existing HVO air quality management measures, described in **Section 9**. This approach has been demonstrated by the site compliance history.

**Figure 29** shows the modelled annual average $PM_{10}$ concentrations due to the Project. There are no applicable "project only" assessment criteria from the EPA but it can be seen from these results that the contribution of the Project to annual average $PM_{10}$ concentrations at the nearest local communities would be in the order of 5 µg/m$^3$ or less.

**Figure 30** shows the modelled annual average $PM_{10}$ concentrations due to the Project, other mining operations and other sources of $PM_{10}$. These results indicate compliance with the EPA's assessment criterion for annual average $PM_{10}$ (25 µg/m$^3$) at all private sensitive receptors (not subject to air quality acquisition rights) with the exception of Property 308 in Year 11. This result has been influenced by the combined contributions from the Project (with active mining moving closer to Jerrys Plains in later years), other mining operations and other sources of $PM_{10}$. Annual average contributions have been modelled to be 5.5 µg/m$^3$ from the combined contributions of HVO North and HVO South. It is suggested that the modelled non-compliance at property 308 is a conservative estimate and will not eventuate given that:

- Historical air quality monitoring (**Section 4.3**) has shown that annual average $PM_{10}$ concentrations near this location in non-extraordinary years have not exceeded 21 µg/m$^3$ with levels ranging from 16 to 21 µg/m$^3$.
- Modelling was carried out using a maximum proposed coal extraction rate which, at 18 Mtpa for HVO South, is lower than the approved extraction rate (20 Mtpa).

Nevertheless, continued monitoring of $PM_{10}$ in the Jerrys Plains area will be required to evaluate the contributions of the Project and, if approved, compliance with development consent criteria.

**Table 25** provides a summary of the modelled operational $PM_{10}$ concentrations at locations representative of the nearest residential areas, reflecting the conclusions outlined above. **Appendix F** provides tabulated results for all locations including the splits between HVO North and HVO South.

Table 25 Modelled operational $PM_{10}$ concentrations at local communities

| Representative receptors (property ID)* | Due to Project (HVO Complex) | | | | | Cumulative | | | | | | Criterion |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | 2014 | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | |
| **Maximum 24-hour average $PM_{10}$ (µg/m$^3$)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 16 | 17 | 18 | 27 | 18 | 50 | 55 | 53 | 58 | 55 | 47 | 50 |
| Jerrys Plains (321) | 11 | 14 | 16 | 29 | 23 | 49 | 47 | 48 | 52 | 59 | 51 | 50 |
| Long Point (139) – off map | 16 | 17 | 17 | 18 | 12 | 41 | 42 | 42 | 42 | 41 | 41 | 50 |
| Maison Dieu (161) | 28 | 18 | 19 | 24 | 28 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| Warkworth (102) | 12 | 18 | 25 | 27 | 11 | 56 | 66 | 65 | 65 | 50 | 41 | 50 |
| **Number of days exceeding 50 µg/m$^3$ $PM_{10}$** | | | | | | | | | | | | |
| Jerrys Plains (308) | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 6 | 2 | 0 | - |
| Jerrys Plains (321) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| Long Point (139) – off map | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Maison Dieu (161) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth (102) | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 27 | 24 | 0 | 0 | - |
| **Annual average $PM_{10}$ (µg/m$^3$)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 2.3 | 3.2 | 3.9 | 5.5 | 2.9 | 20 | 24 | 23 | 27 | 23 | 17 | 25 |
| Jerrys Plains (321) | 2.6 | 3.4 | 3.9 | 5.3 | 3.0 | 19 | 20 | 20 | 22 | 21 | 17 | 25 |
| Long Point (139) – off map | 2.7 | 2.9 | 2.9 | 3.0 | 1.9 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| Maison Dieu (161) | 3.2 | 3.6 | 4.1 | 5.0 | 5.1 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| Warkworth (102) | 2.0 | 2.9 | 3.8 | 3.8 | 1.8 | 26 | 38 | 37 | 35 | 21 | 16 | 25 |

* Warkworth Hall (102) and the Hunter Valley Gliding Club (833) are not considered to be sensitive receptors as they are not regularly occupied.

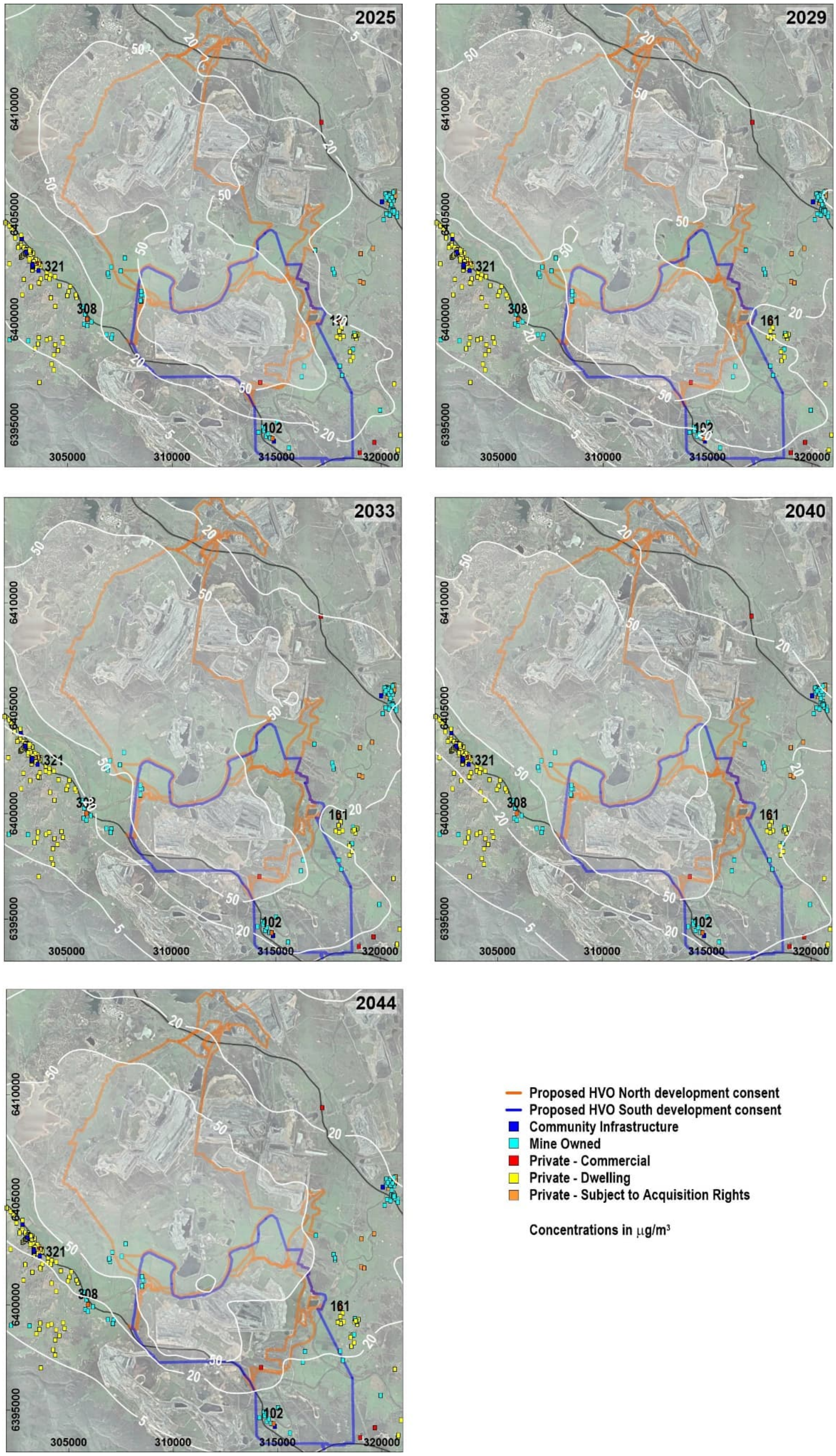



Figure 25 Modelled maximum 24-hour average $PM_{10}$ due to the Project

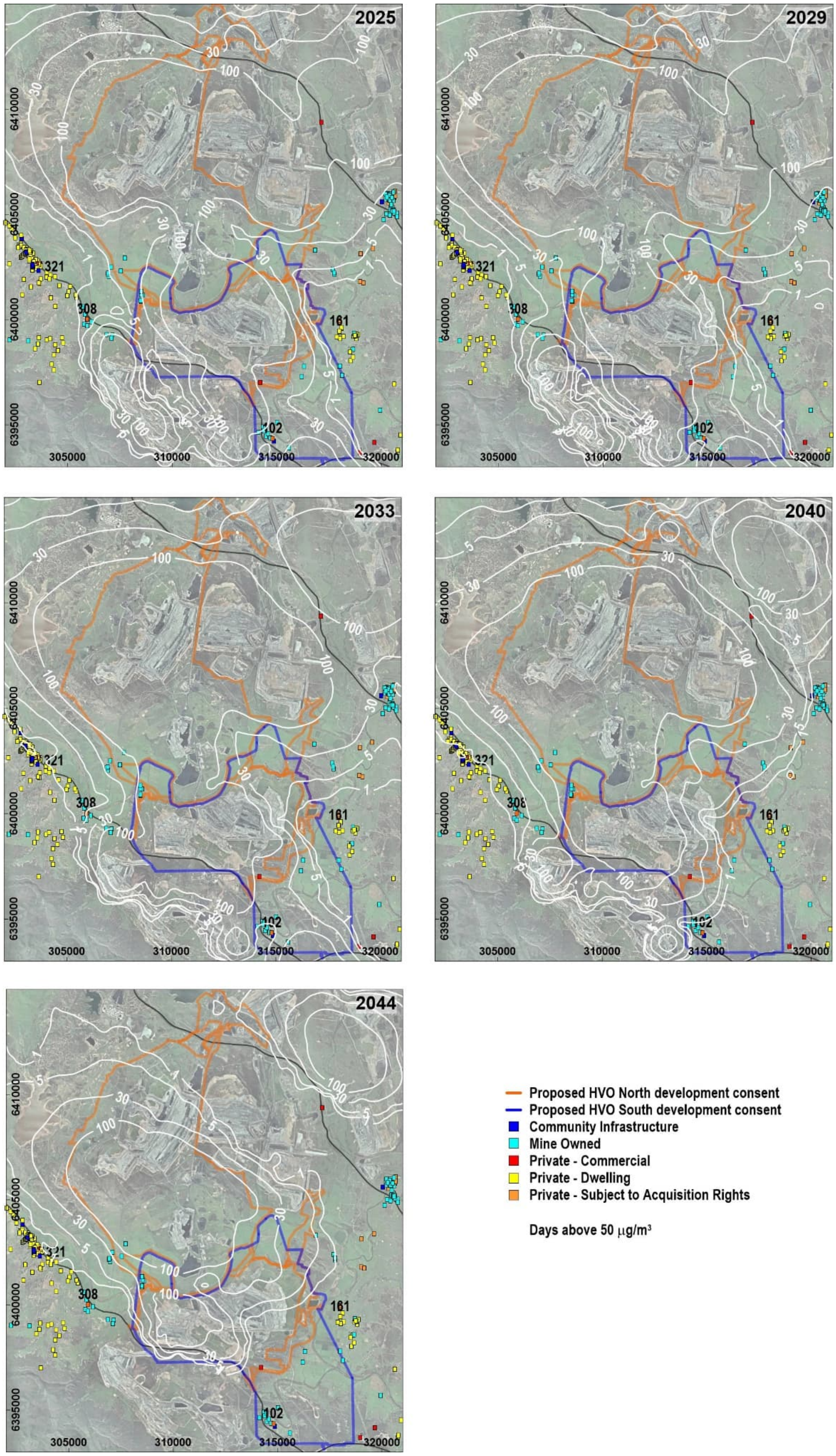



Figure 26 Modelled number of days above 50 µg/$m^3$ $PM_{10}$ due to the Project and other sources

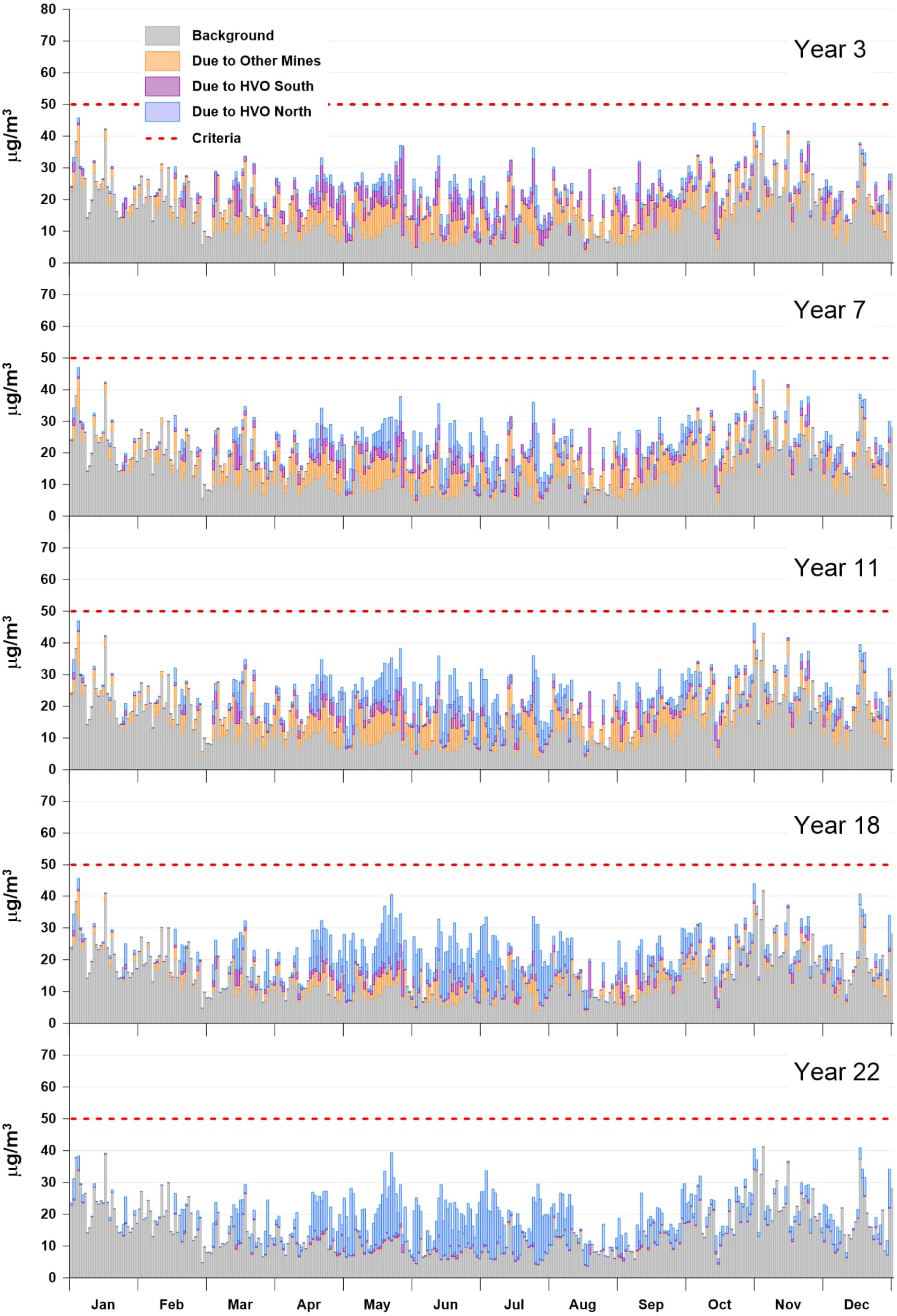



Figure 27 Time series of 24-hour average $PM_{10}$ at Maison Dieu (property 161)

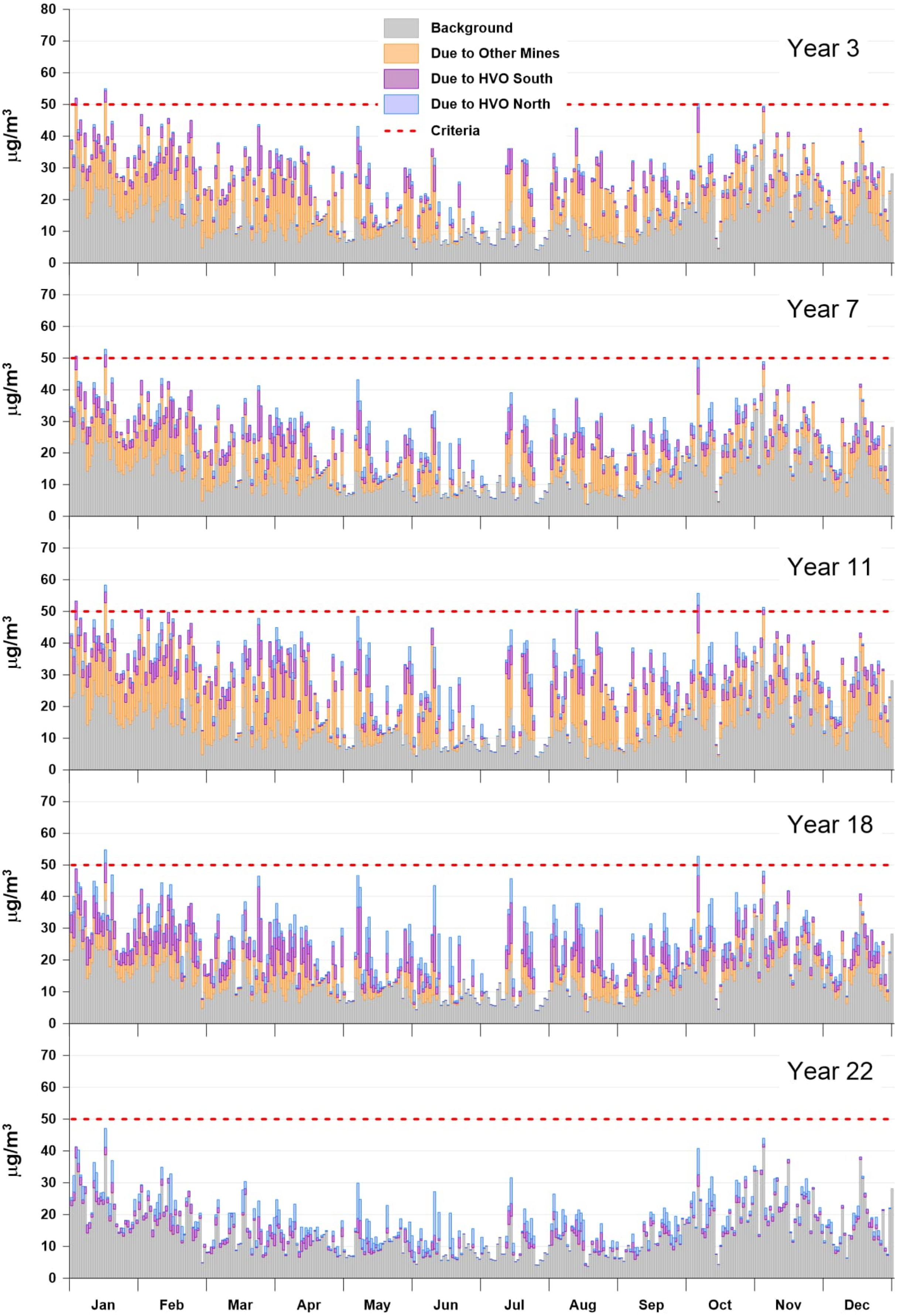



Figure 28 Time series of 24-hour average $PM_{10}$ at Jerrys Plains (property 308)

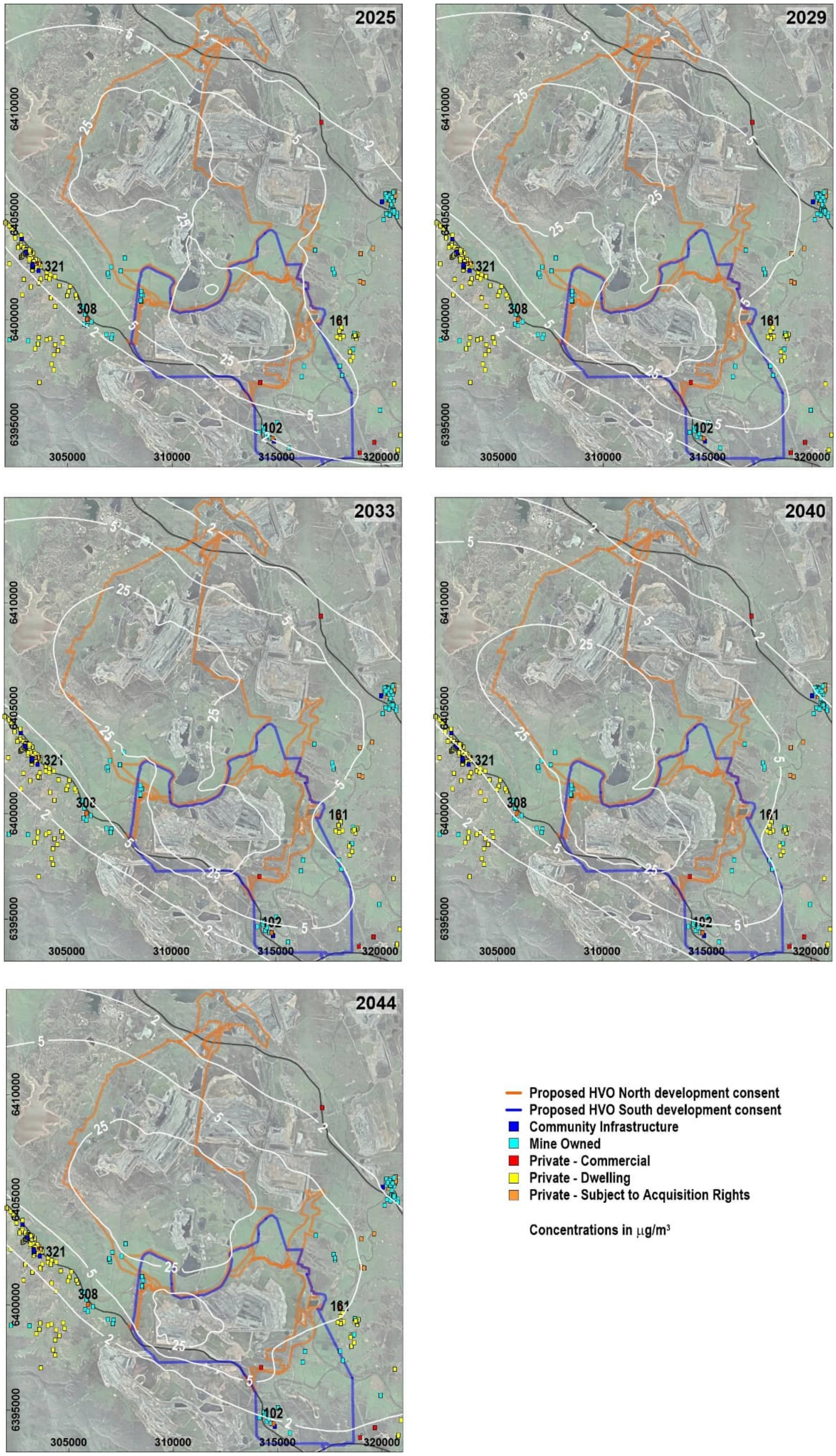



Figure 29 Modelled annual average $PM_{10}$ due to the Project

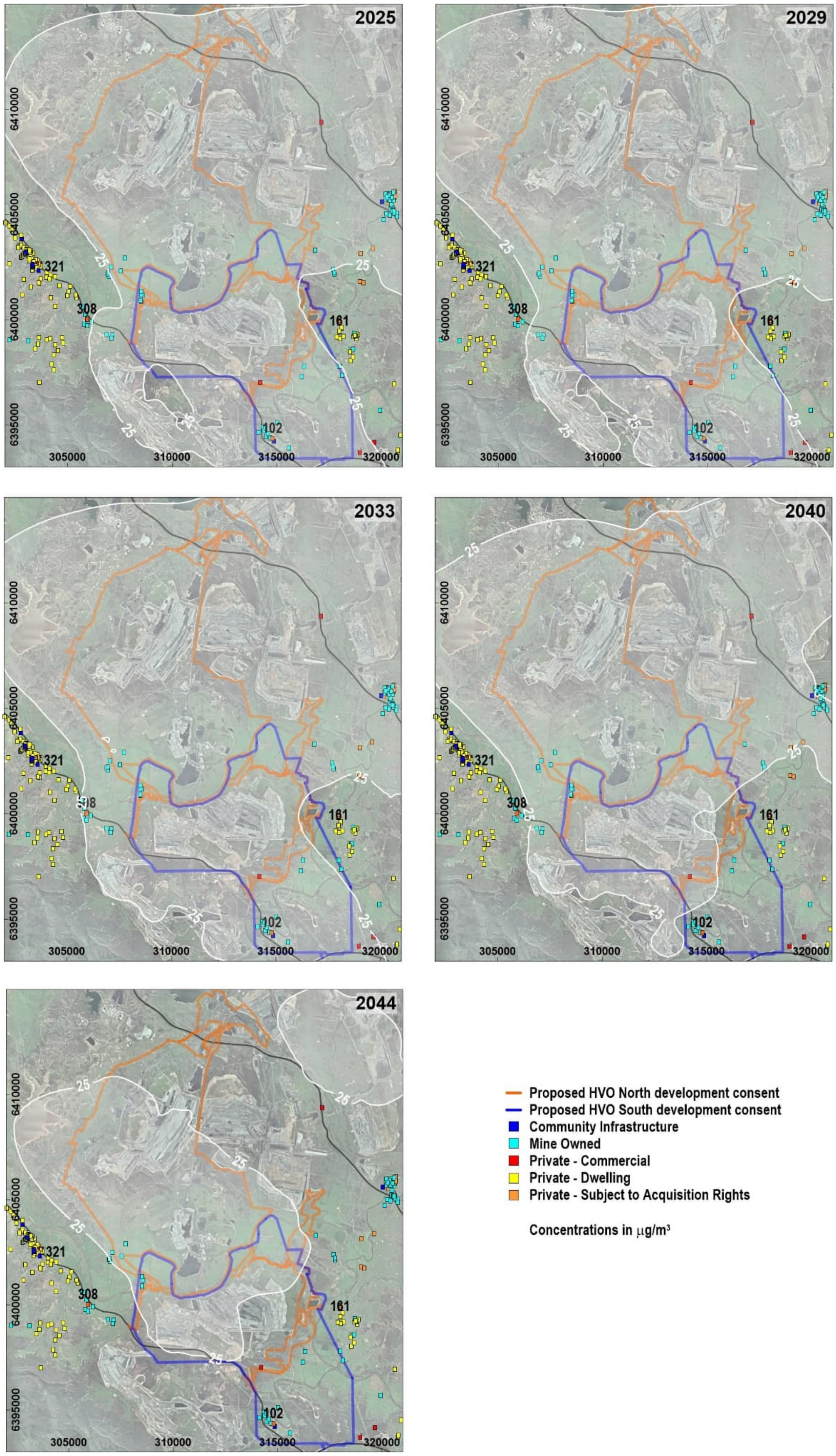



Figure 30 Modelled annual average $PM_{10}$ due to the Project and other sources

### 7.2.2 Particulate Matter (as $PM_{2.5}$)

**Figure 31** shows the modelled maximum 24-hour average $PM_{2.5}$ concentrations due to the Project for each assessment scenario. The EPA does not prescribe a project only assessment criteria for 24-hour average $PM_{2.5}$, but the VLAMP refers to 25 µg/m$^3$ for the purposes of determining land acquisition and mitigation. The modelling shows that the 25 µg/m$^3$ criterion would not be exceeded at any private sensitive receptor.

Compliance with the EPA's 24-hour average $PM_{2.5}$ criterion of 25 µg/m$^3$ has also been assessed. This criterion relates to the total concentration in the air (that is, cumulative) and not just the contribution from the Project. As noted in **Section 4.3**, most locations around the HVO Complex have historically recorded one or more days each year when the 24-hour average $PM_{2.5}$ concentration exceeded 25 µg/m$^3$. The model has therefore been configured to show the number of days each year above 25 µg/m$^3$ and an assessment of whether the Project would cause additional exceedances has been made.

**Figure 32** shows the modelled number of days above 25 µg/m$^3$ due to HVO, other mining operations and other sources of $PM_{2.5}$. These results show that, for a representative year, the residential communities of Jerrys Plains, Maison Dieu and Long Point are expected to experience one or less days per year when $PM_{2.5}$ concentrations exceed 25 µg/m$^3$. This result is within the range of historically measured days when $PM_{2.5}$ concentrations have exceeded 25 µg/m$^3$, with the exception of extraordinary years such as those years with increased occurrence of dust storms and bushfires. The review of recent and historical air quality monitoring data (**Section 4.3**) showed that, in the representative year (2014), all monitoring locations recorded between one and two days above 25 µg/m$^3$. Based on the modelling the Project is not anticipated to change this outcome.

**Figure 33** shows the modelled annual average $PM_{2.5}$ concentrations due to the Project. There are no applicable "project only" criteria from the EPA but it can be seen from these results that the contribution of the Project to annual average $PM_{2.5}$ concentrations at the nearest local communities would be in the order of 1 to 2 µg/m$^3$.

**Figure 34** shows the modelled annual average $PM_{2.5}$ concentrations due to the Project, other mining operations and other sources of $PM_{2.5}$. These results indicate compliance with the EPA's assessment criterion for annual average $PM_{2.5}$ (8 µg/m$^3$) at all private sensitive receptors not subject to air quality acquisition rights, except for property 308 in Year 11 (although 308 is entitled to voluntary noise acquisition rights with the UWJV). It is noted that some distant areas, such as Camberwell, are anticipated to experience annual average $PM_{2.5}$ above 8 µg/m$^3$ however these locations are not directly adjacent to HVO. That is, the primary influence on air quality will be other sources or operations. Nevertheless, continued monitoring of $PM_{2.5}$ will be required to evaluate the contributions of the Project and, if approved, compliance with development consent criteria.

**Table 26** provides a summary of the modelled operational $PM_{2.5}$ concentrations at the identified local communities, reflecting the conclusions outlined above. **Appendix F** provides tabulated results for all locations including the splits between HVO North and HVO South.

Table 26 Modelled operational $PM_{2.5}$ concentrations at local communities

| Representative receptors (property ID)* | Due to Project (HVO Complex) | | | | | Cumulative | | | | | | Criterion |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | 2014 | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | |
| **Maximum 24-hour average $PM_{2.5}$ (µg/m$^3$)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 4.1 | 4.6 | 4.7 | 8.3 | 6.2 | 17 | 17 | 17 | 19 | 18 | 17 | 25 |
| Jerrys Plains (321) | 3.2 | 4.4 | 4.7 | 8.3 | 7.5 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| Long Point (139) – off map | 3.2 | 3.7 | 3.8 | 4.1 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| Maison Dieu (161) | 6.3 | 4.7 | 5.1 | 5.8 | 5.6 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| Warkworth (102) | 3.7 | 4.5 | 5.7 | 5.7 | 3.1 | 18 | 20 | 19 | 19 | 17 | 15 | 25 |
| **Number of days exceeding 25 µg/m$^3$ $PM_{2.5}$** | | | | | | | | | | | | |
| Jerrys Plains (308) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

| Representative receptors (property ID)* | Due to Project (HVO Complex) | | | | | Cumulative | | | | | | Criterion |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | 2014 | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | |
| Jerrys Plains (321) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Long Point (139) – off map | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Maison Dieu (161) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth (102) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| **Annual average $PM_{2.5}$ ($\mu g/m^3$)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 0.5 | 0.8 | 0.9 | 1.3 | 0.8 | 6.6 | 7.0 | 7.0 | 8.3 | 7.3 | 6.0 | 8 |
| Jerrys Plains (321) | 0.6 | 0.8 | 0.9 | 1.3 | 0.9 | 6.4 | 6.5 | 6.7 | 7.1 | 6.9 | 6.1 | 8 |
| Long Point (139) – off map | 0.6 | 0.7 | 0.7 | 0.7 | 0.5 | 6.4 | 6.6 | 6.7 | 6.7 | 6.2 | 5.7 | 8 |
| Maison Dieu (161) | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.9 | 7.2 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| Warkworth (102) | 0.5 | 0.7 | 0.9 | 0.9 | 0.5 | 7.5 | 10.6 | 9.9 | 9.4 | 6.7 | 5.7 | 8 |

* Warkworth Hall (102) and the Hunter Valley Gliding Club (833) are not considered to be sensitive receptors as they are not regularly occupied.

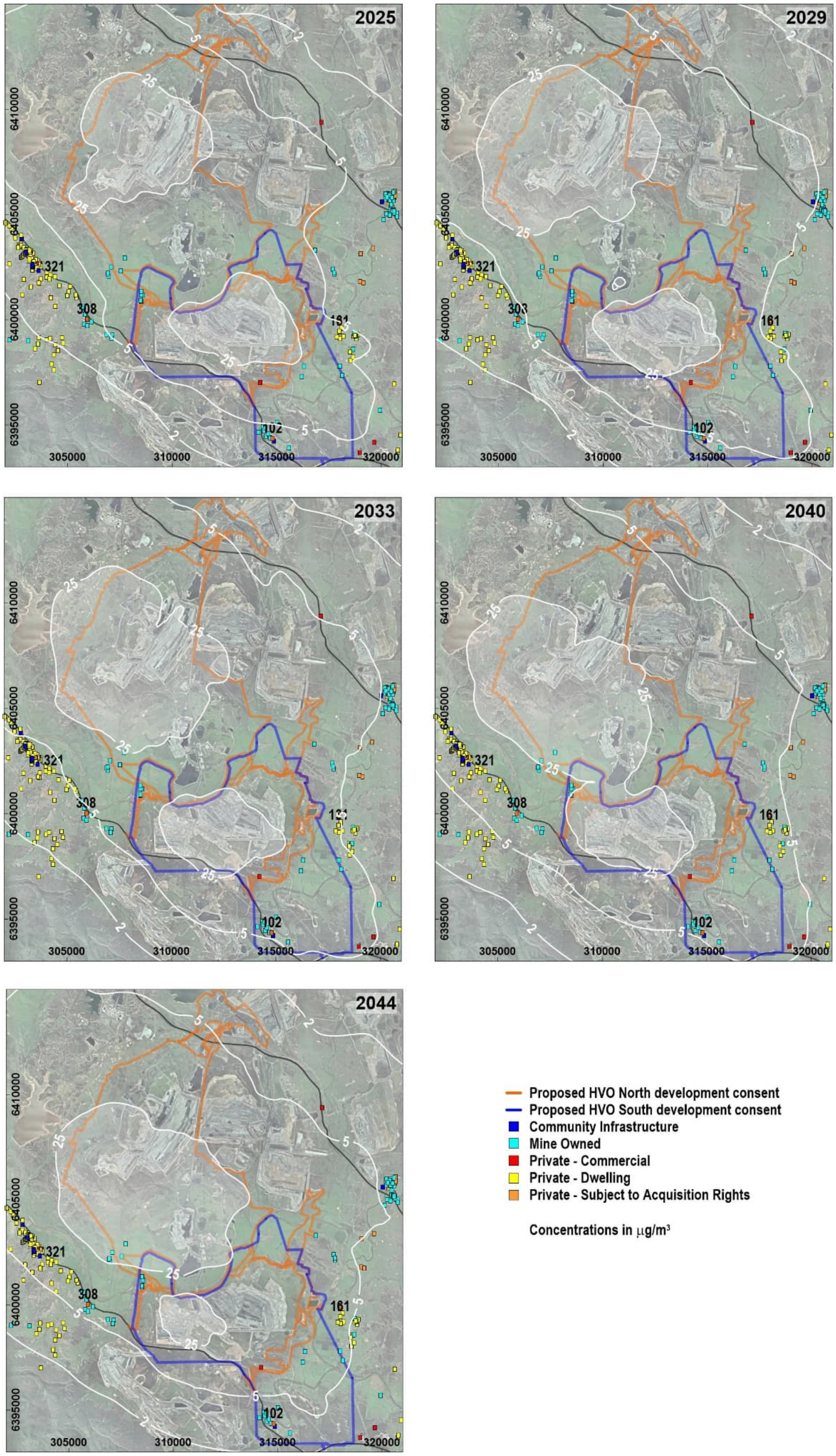



Figure 31 Modelled maximum 24-hour average $PM_{2.5}$ due to the Project

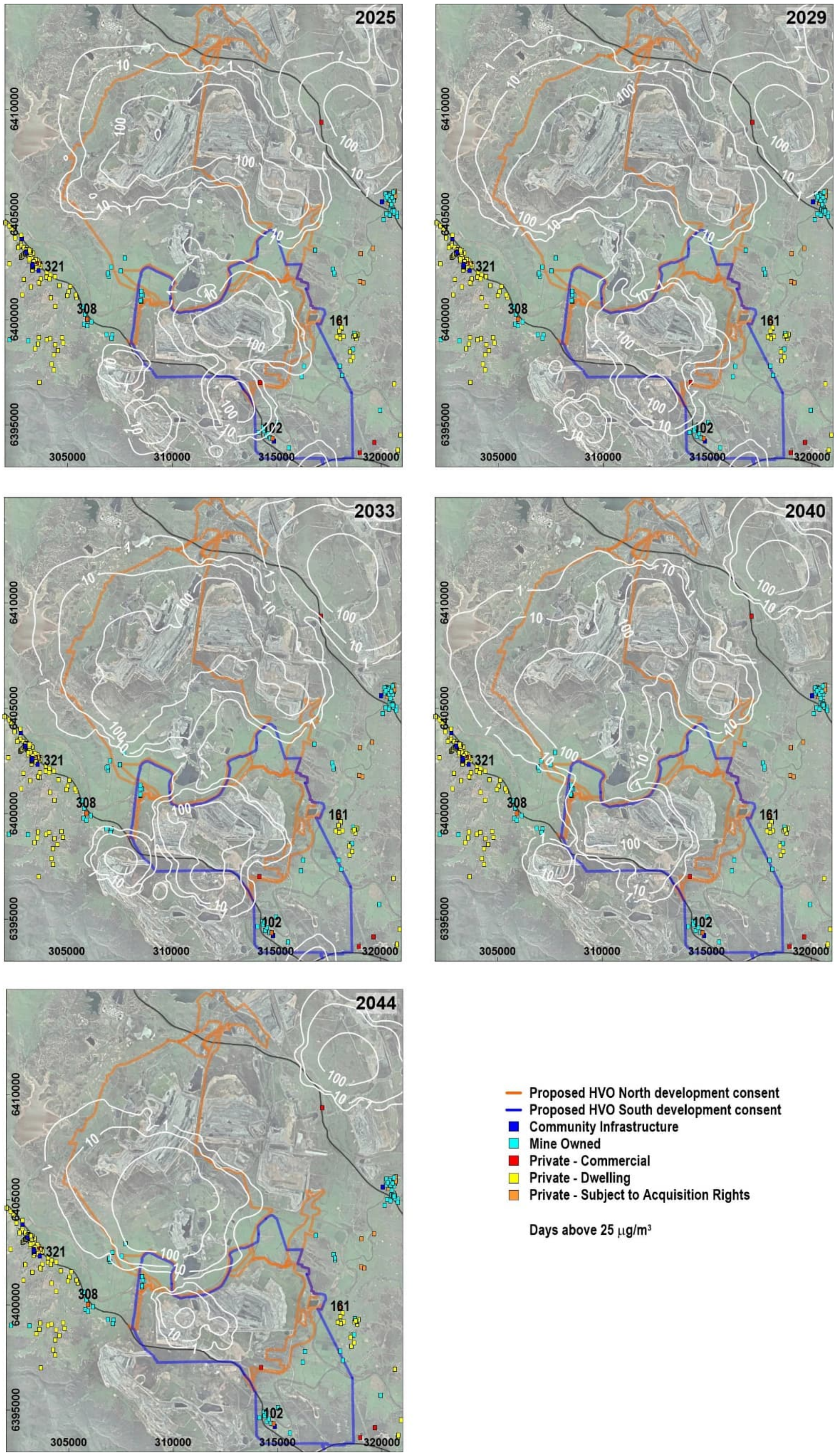



Figure 32 Modelled number of days above 25 µg/$m^3$ $PM_{2.5}$ due to the Project and other sources

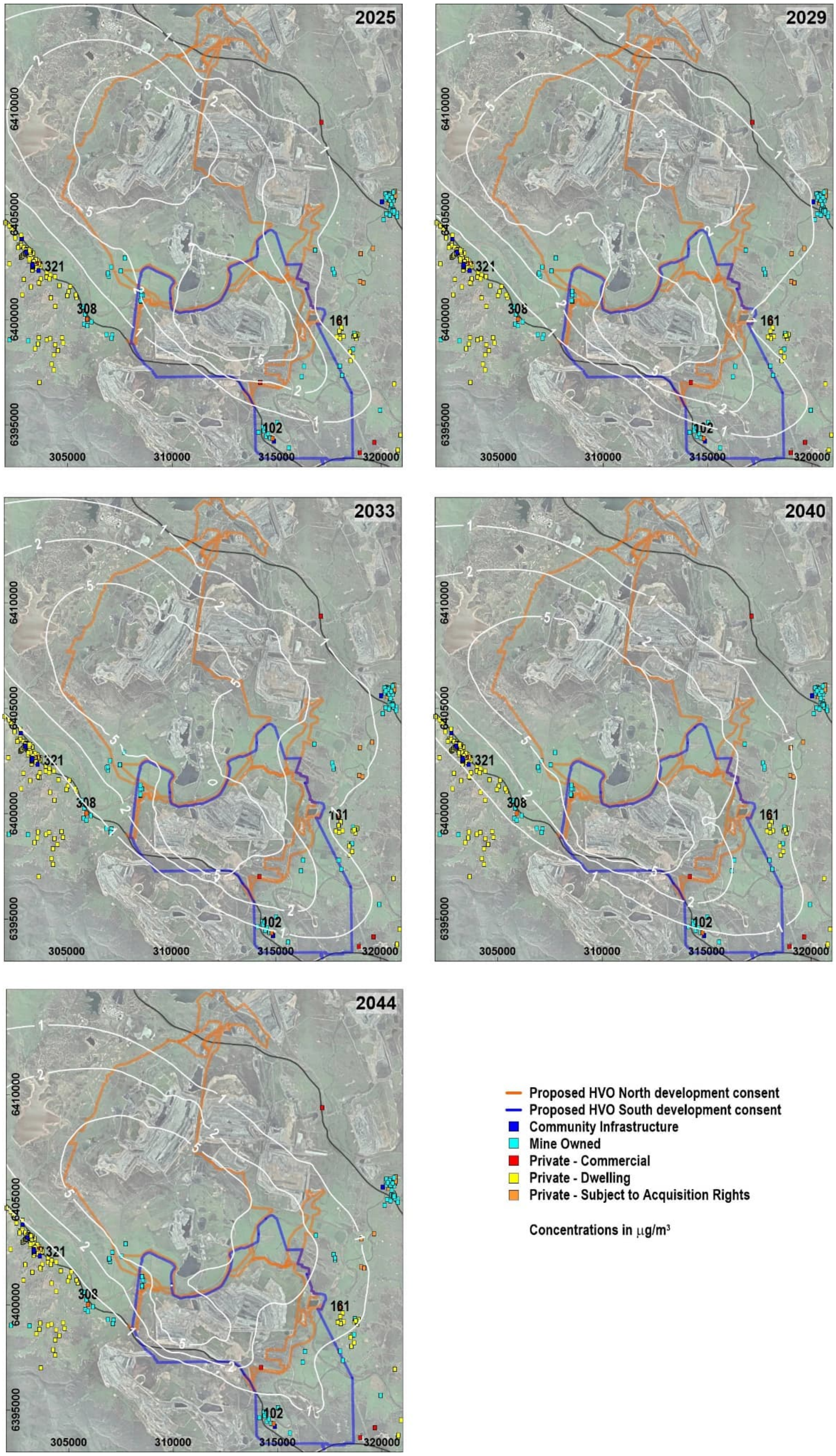



Figure 33 Modelled annual average $PM_{2.5}$ due to the Project

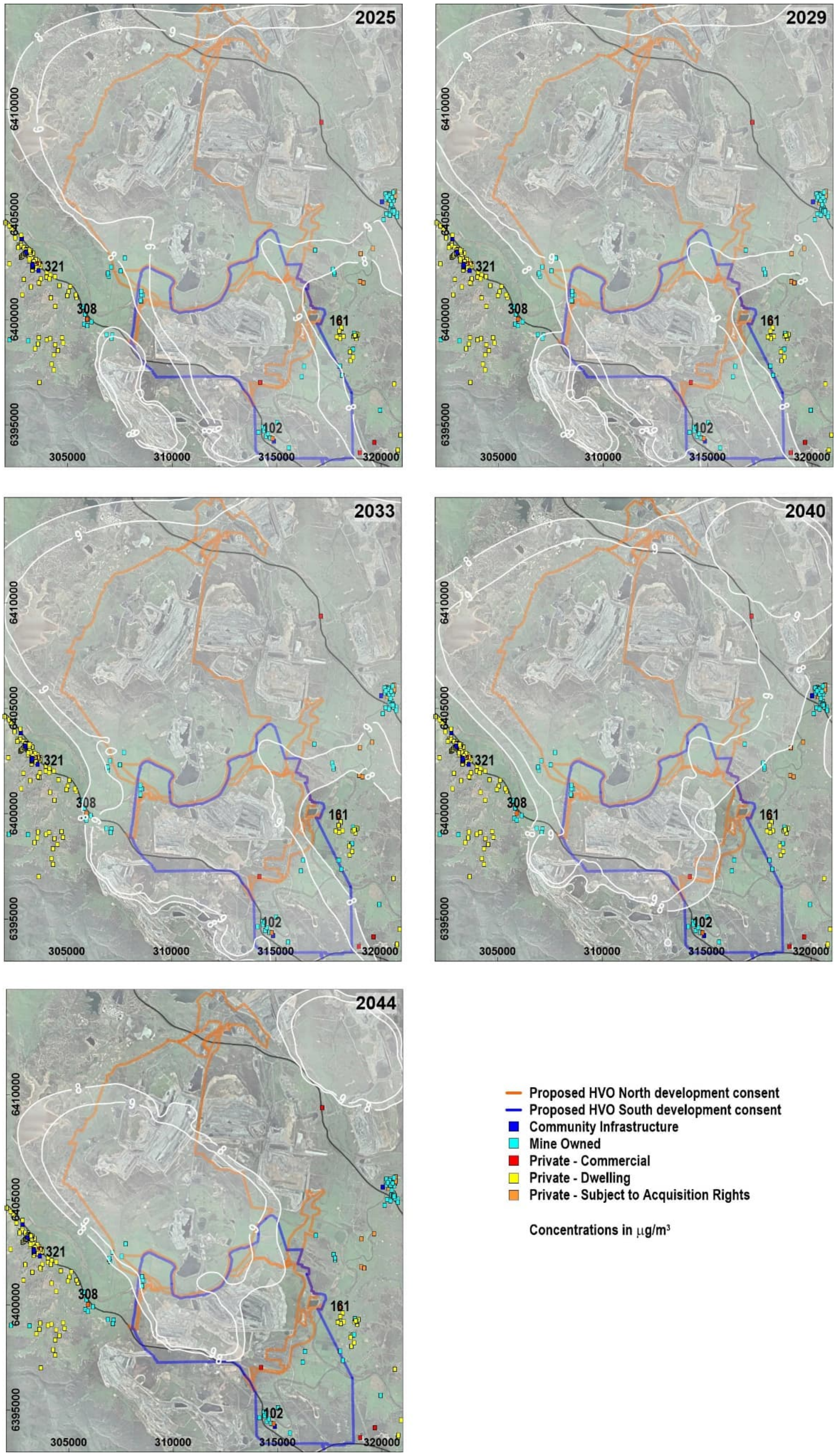



Figure 34 Modelled annual average $PM_{2.5}$ due to the Project and other sources

### 7.2.3 Particulate Matter (as TSP)

**Figure 35** shows the modelled annual average TSP concentrations due to the Project. There are no applicable "project only" criteria from the EPA but it can be seen from these results that the contribution of the Project to annual average TSP concentrations at the nearest local communities would be in the order of 2 to 5 µg/m$^3$.

**Figure 36** shows the modelled annual average TSP concentrations due to the Project, other mining operations and other sources of TSP. These results indicate compliance with the EPA's assessment criterion for annual average TSP (90 µg/m$^3$) at all private sensitive receptors not subject to air quality acquisition rights. Consequently, the Project is not anticipated to cause adverse air quality impacts in terms of TSP concentrations.

**Table 27** provides a summary of the modelled operational TSP concentrations at the identified local communities, reflecting the conclusions outlined above. **Appendix F** provides tabulated results for all locations including the splits between HVO North and HVO South.

Table 27 Modelled operational TSP concentrations at local communities

| Representative receptors (property ID)* | Due to Project (HVO Complex) | | | | | Cumulative | | | | | | Criterion |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | 2014 | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | |
| **Annual average TSP (µg/m$^3$)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 1.3 | 1.9 | 2.6 | 3.1 | 1.4 | 61 | 62 | 62 | 67 | 63 | 58 | 90 |
| Jerrys Plains (321) | 1.6 | 2.0 | 2.4 | 2.9 | 1.4 | 60 | 60 | 60 | 62 | 61 | 58 | 90 |
| Long Point (139) – off map | 2.5 | 2.4 | 2.4 | 2.1 | 1.0 | 60 | 60 | 60 | 60 | 59 | 58 | 90 |
| Maison Dieu (161) | 2.6 | 2.0 | 2.2 | 2.7 | 2.7 | 60 | 60 | 60 | 60 | 60 | 60 | 90 |
| Warkworth (102) | 0.7 | 1.3 | 2.3 | 1.8 | 0.8 | 63 | 73 | 71 | 71 | 61 | 58 | 90 |

* Warkworth Hall (102) and the Hunter Valley Gliding Club (833) are not considered to be sensitive receptors as they are not regularly occupied.

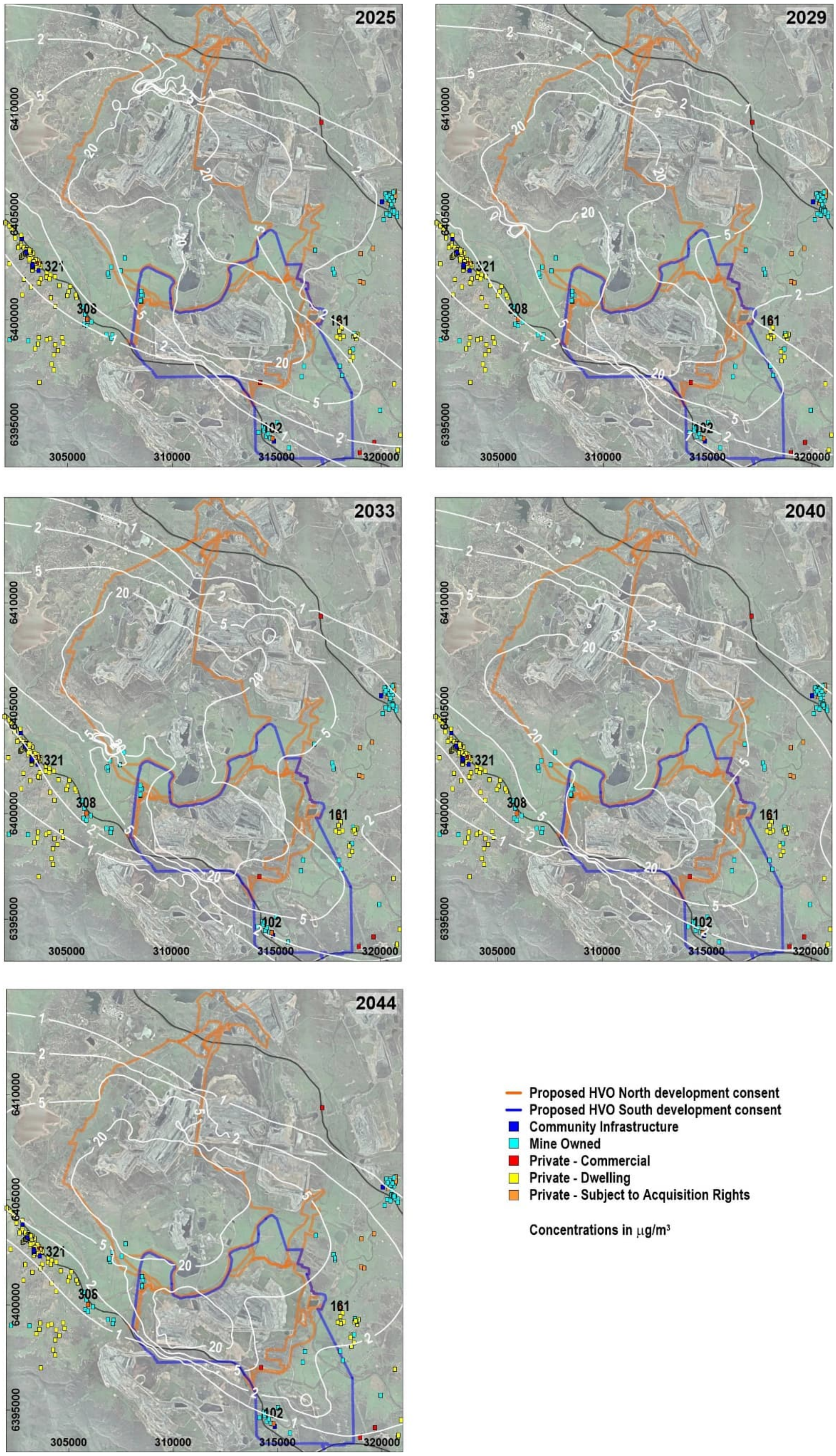



Figure 35 Modelled annual average TSP due to the Project

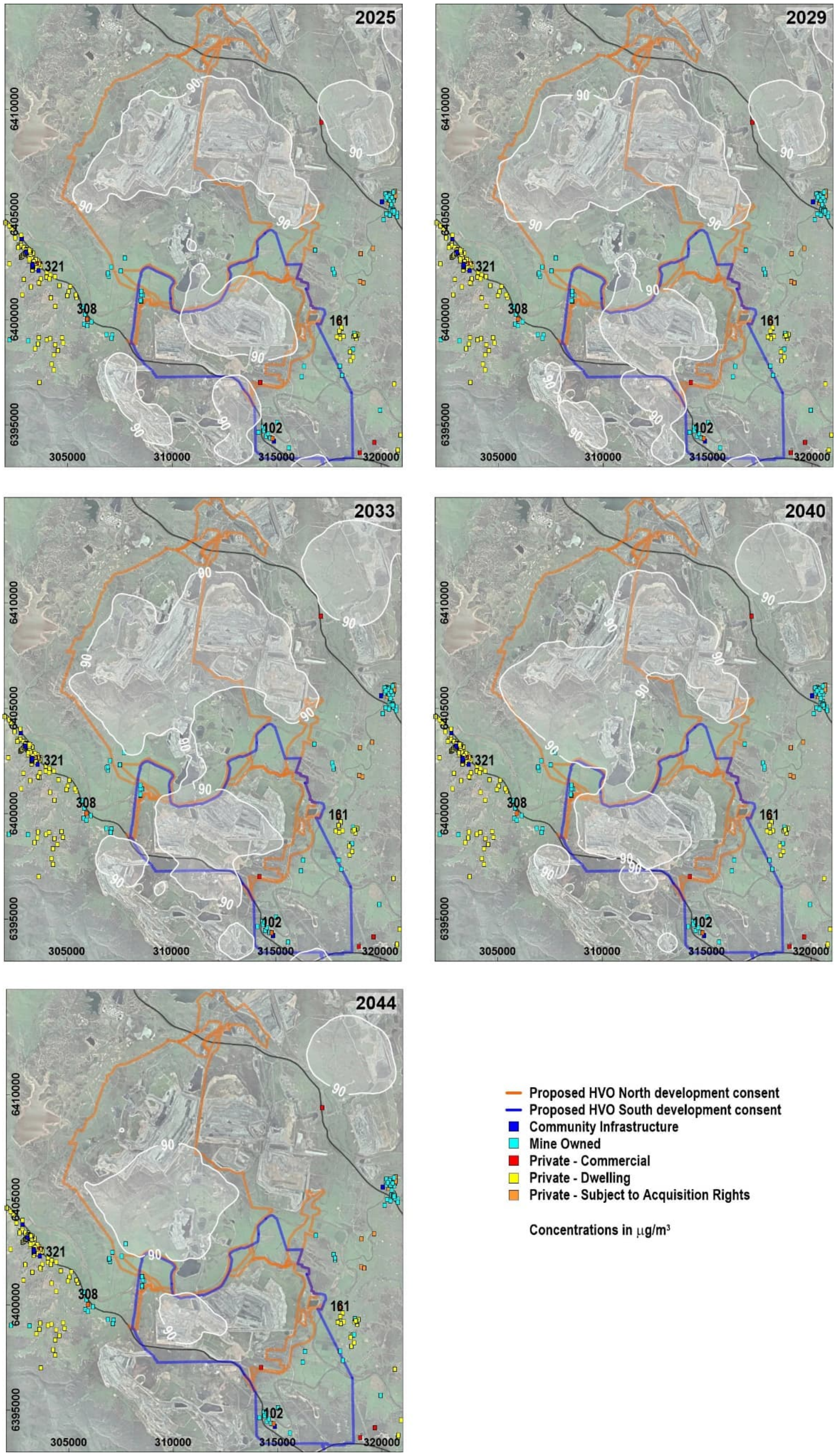



Figure 36 Modelled annual average TSP due to the Project and other sources

### 7.2.4 Deposited Dust

**Figure 37** shows the modelled annual average deposited dust levels due to the Project. These results show that the EPA's assessment criterion for incremental deposited dust due to the Project on its own (2 g/m$^2$/month) will not be exceeded at private sensitive receptors. **Figure 38** shows the modelled annual average deposited dust levels due to the Project, other mining operations and other sources of deposited dust. These results indicate compliance with the EPA's assessment criterion for total deposited dust (4 g/m$^2$/month) at all private sensitive receptors not subject to air quality acquisition rights. Consequently, the Project is not anticipated to cause adverse air quality impacts in terms of deposited dust levels.

**Table 28** provides a summary of the modelled operational deposited dust levels at the identified local communities, reflecting the conclusions outlined above. **Appendix F** provides tabulated results for all locations including the splits between HVO North and HVO South.

Table 28 Modelled operational deposited dust at local communities

| Representative receptors (property ID)* | Due to Project (HVO Complex) | | | | | Cumulative | | | | | | Criterion ** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | 2014 | Y3 2025 | Y7 2029 | Y11 2033 | Y18 2040 | Y22 2044 | |
| **Annual average deposited dust (g/m$^2$/month)** | | | | | | | | | | | | |
| Jerrys Plains (308) | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.9 | 3.0 | 3.1 | 3.5 | 3.2 | 2.7 | 4 |
| Jerrys Plains (321) | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.8 | 2.9 | 2.9 | 3.0 | 2.9 | 2.7 | 4 |
| Long Point (139) – off map | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| Maison Dieu (161) | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| Warkworth (102) | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 3.1 | 4.1 | 3.9 | 3.8 | 2.9 | 2.6 | 4 |

* Warkworth Hall (102) and the Hunter Valley Gliding Club (833) are not considered to be sensitive receptors as they are not regularly occupied. ** Project only criterion is 2 g/m$^2$/month. Cumulative criterion is 4 g/m$^2$/month.

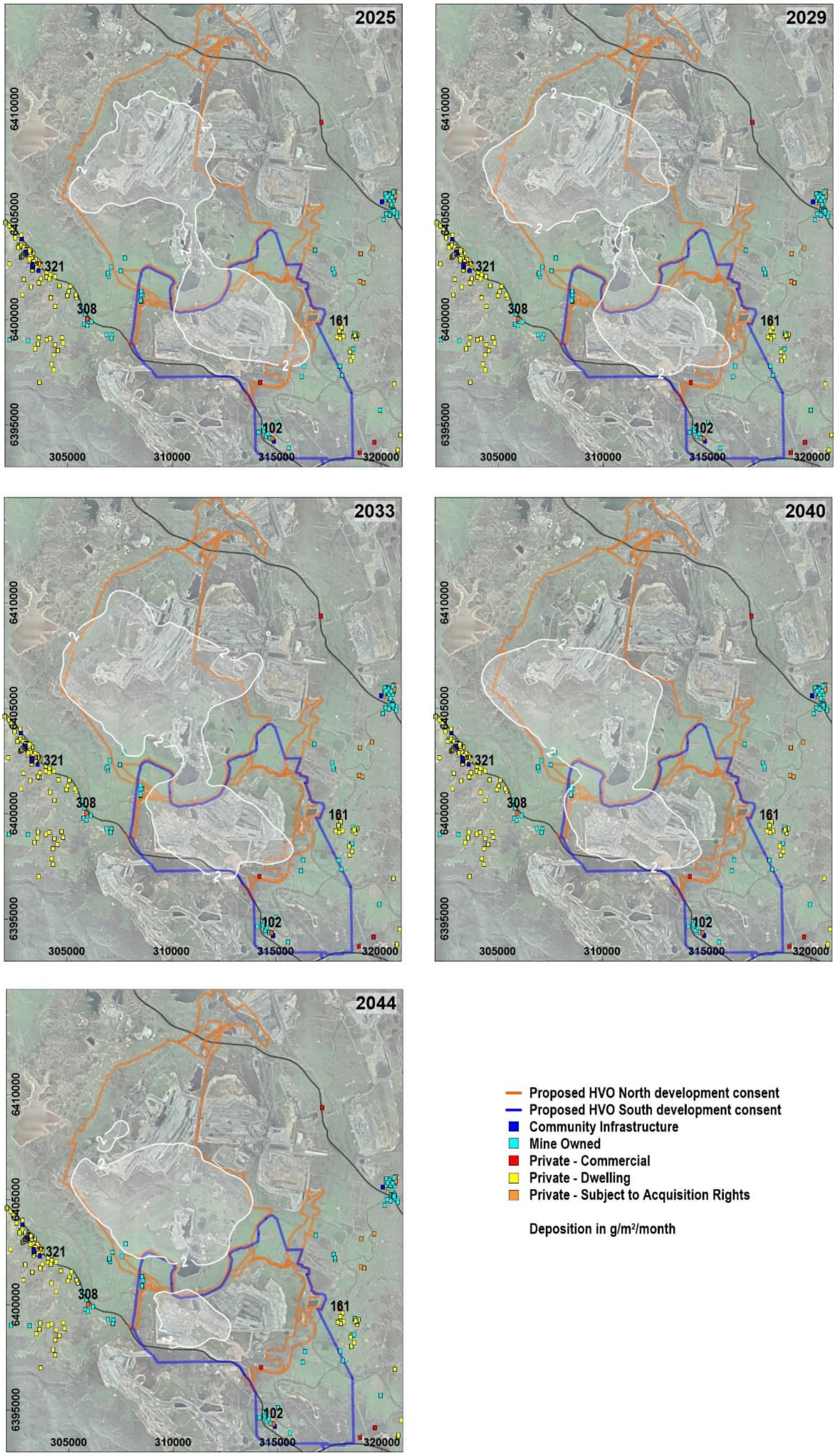



Figure 37 Modelled annual average deposited dust due to the Project

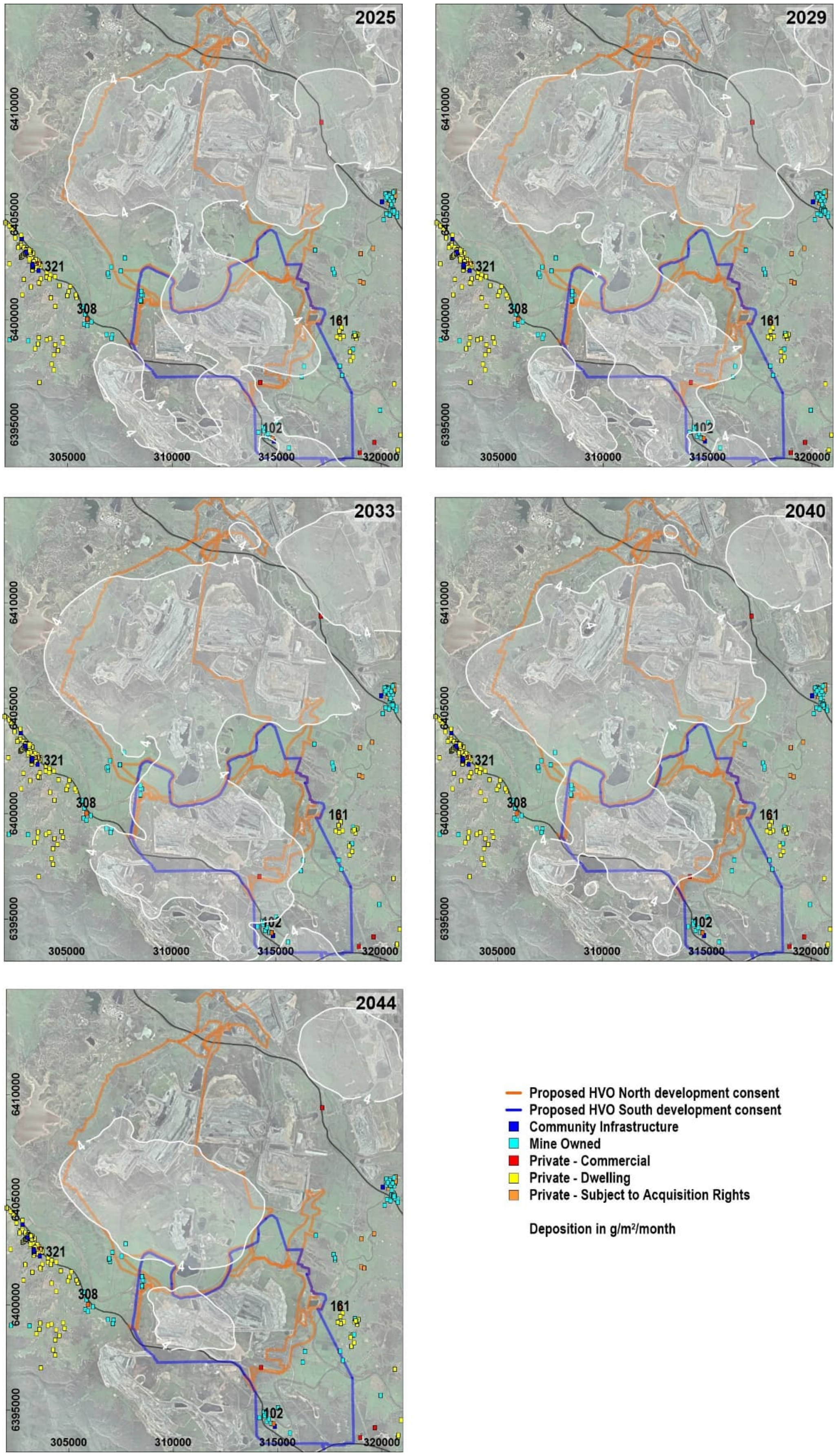



Figure 38 Modelled annual average deposited dust due to the Project and other sources

### 7.2.5 VLAMP Assessment

As noted in **Section 3.1**, the VLAMP specifies that voluntary acquisition rights may apply where, even with best practice management, the development contributes to exceedances of the criteria in **Table 6** at any residence or workplace on privately owned land, or on more than 25% of any privately owned land where there is an existing dwelling or where a dwelling could be built under existing planning controls.

**Figure 39** shows the maximum extent of VLAMP criteria based on all assessment years and for all relevant air quality indicators. **Table 29** provides an assessment of the model results against the VLAMP criteria.

Table 29 Assessment against VLAMP criteria

| Air quality indicator | Averaging time | Acquisition criterion | Assessment outcome from modelling |
|---|---|---|---|
| $PM_{10}$ | 24-hour | 50 µg/m³ ** | Compliance |
| | Annual | 25 µg/m³ * | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings:<br>- 3//700476 (Property 308)<br>- 5//251617, 8//3005, 9//3005 (Property 121) |
| $PM_{2.5}$ | 24-hour | 25 µg/m³ ** | Compliance |
| | Annual | 8 µg/m³ * | Project may contribute to an exceedance of the criteria on more than 25% of privately owned land where there is an existing dwelling for the following landholdings:<br>- 3//700476 (Property 308)<br>- 5//251617, 8//3005, 9//3005 (Property 121) |
| TSP | Annual | 90 µg/m³ * | Compliance |
| Deposited dust | Annual (increase) | 2 g/m²/month ** | Compliance |
| | Annual (total) | 4 g/m²/month * | Compliance |

** Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).*
*** Incremental impact (i.e. increase in concentrations due to the development alone), with up to **five allowable exceedances** of the criteria over the life of the development.*

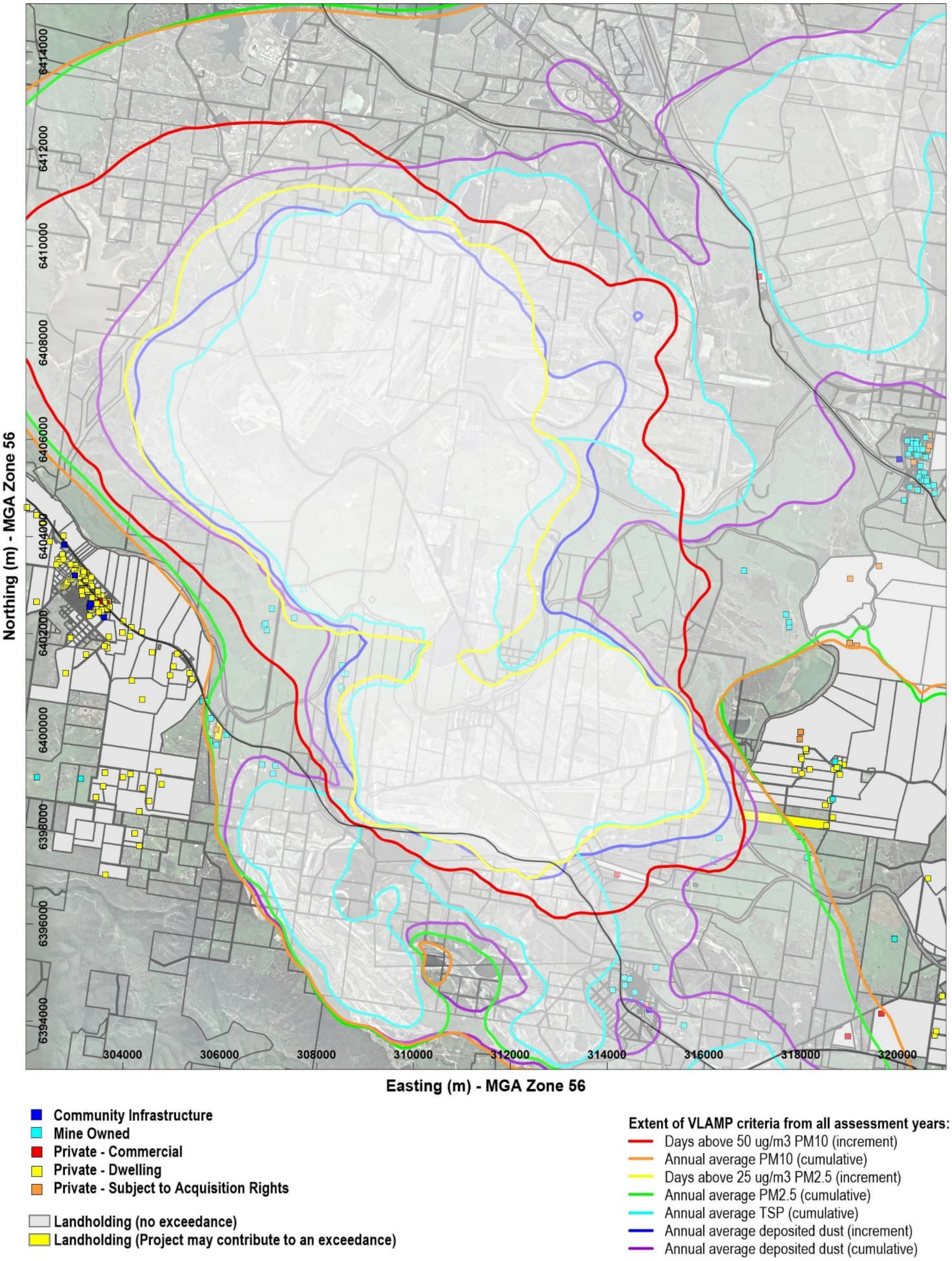



Figure 39 Modelled maximum extent of VLAMP criteria

## 7.3 Operational Post Blast Fume

**Figure 40** shows the modelled maximum 1-hour average $NO_2$ concentrations due to post-blast fume, based on the methodology outlined in **Section 5.3**. These results show that, under worst-case meteorological conditions with a rated 3 fume, blasting every day between 9 am and 5 pm (the most common period for blasting) and maximum background $NO_2$ concentrations from Singleton, the maximum 1-hour average $NO_2$ concentrations will not exceed EPA's assessment criterion of 164 µg/m$^3$ at any off-site sensitive receptor location.

While worst-case assumptions have been made with respect to time-of-day, fume rating and background levels, the modelling has been based on a blast positioned broadly in the middle of the proposed mining area. It is acknowledged that moving the assumed blast locations, for example further to the south or west, would lead to a corresponding shift in the contours, potentially changing the modelled extent of impacts. However, this potential will be managed through the design process for each individual blast which will be designed to comply with relevant criteria. The potential for post-blast fume impacts will be identified prior to all blasts, taking into account the specific parameters of each blast, to avoid worst-case conditions and to minimise fume emissions from blasting, in accordance with contemporary conditions of approval.

HVO has developed a pre-blasting procedure which covers fume management. A site-specific blast management plan will be implemented during operations, including key fume management actions, such as defining the potential risk zone based upon weather patterns and obtaining permissions to fire based on an assessment of real-time weather conditions.

The potential for odour impacts due to blasting has also been considered. This has been done by comparing the odour threshold (concentration) for $NO_2$ with the modelled $NO_2$ concentrations due to blasting. The odour threshold for $NO_2$ has been reported by the World Health Organisation (WHO) to range between 100 µg/m$^3$ and 410 µg/m$^3$. **Figure 41** shows the modelled 99$^{th}$ percentile 1-hour average $NO_2$ concentrations, due to blasting. The results have been presented in this form as the EPA criteria for odour assessment criteria are frequency based and relate to 99$^{th}$ percentiles. A peak-to-mean ratio of 2.3 was used to convert the model's 1-hour average predictions to nose-response times. The model results of $NO_2$ at the nearest sensitive receptors are less than 20 µg/m$^3$. These results are at the lower end of the odour threshold range reported by the WHO which suggests that the odour impacts can be managed with appropriate blasting procedures.

Based on the dispersion modelling, with predominantly worst-case assumptions, and proposed implementation of site-specific pre-blast procedures it has therefore been concluded that the Project will not lead to adverse air quality impacts with respect to post blast fume. It is noted that historical Annual Reviews have reported that, prior to 2017, there were periodic complaints (up to 5) relating to blast fume and odour. However, more recent Annual Reviews from 2018 onwards have not reported any complaints relating to blast fume and odour.

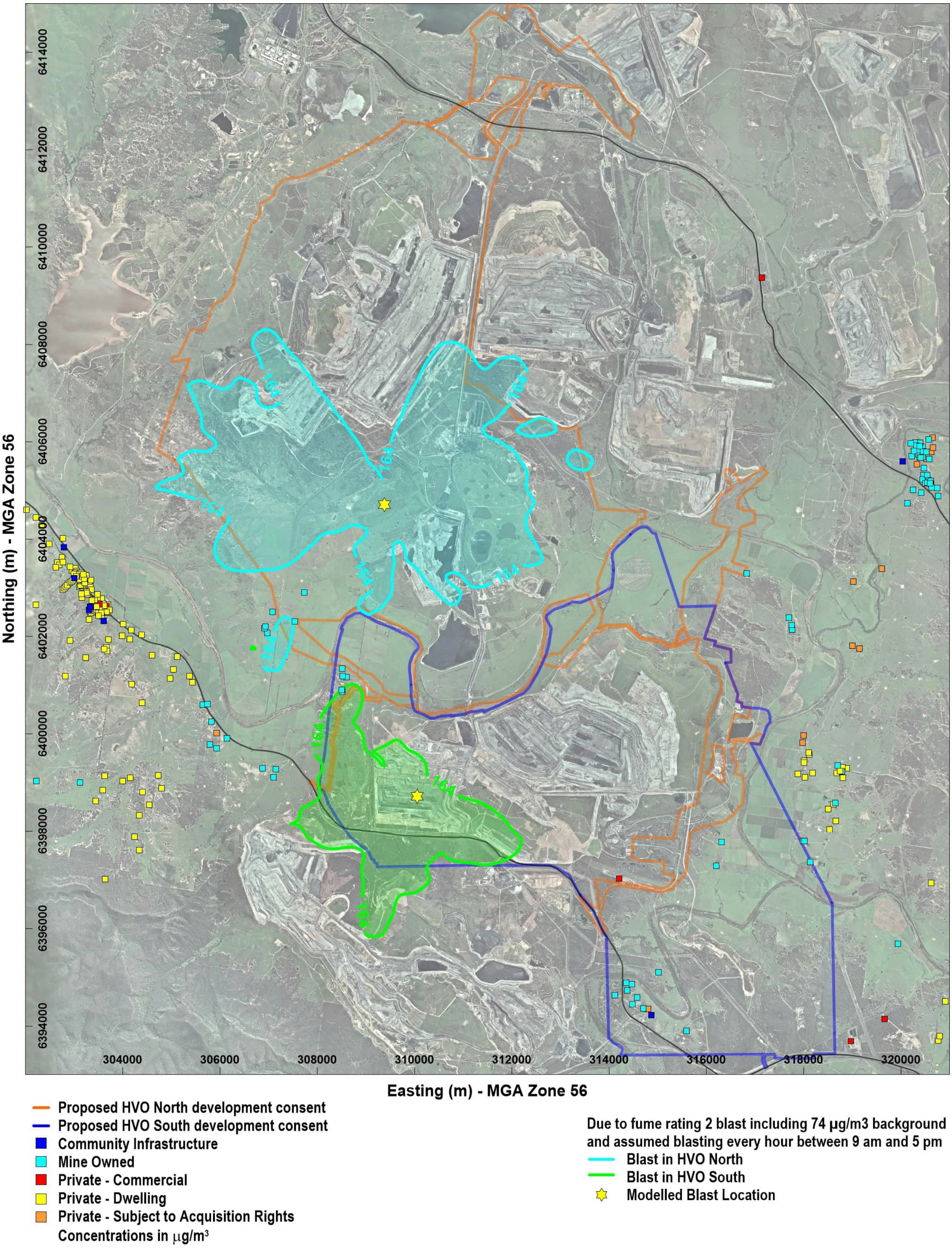



Figure 40 Modelled maximum 1-hour average $NO_2$ due to blasting (including background levels)

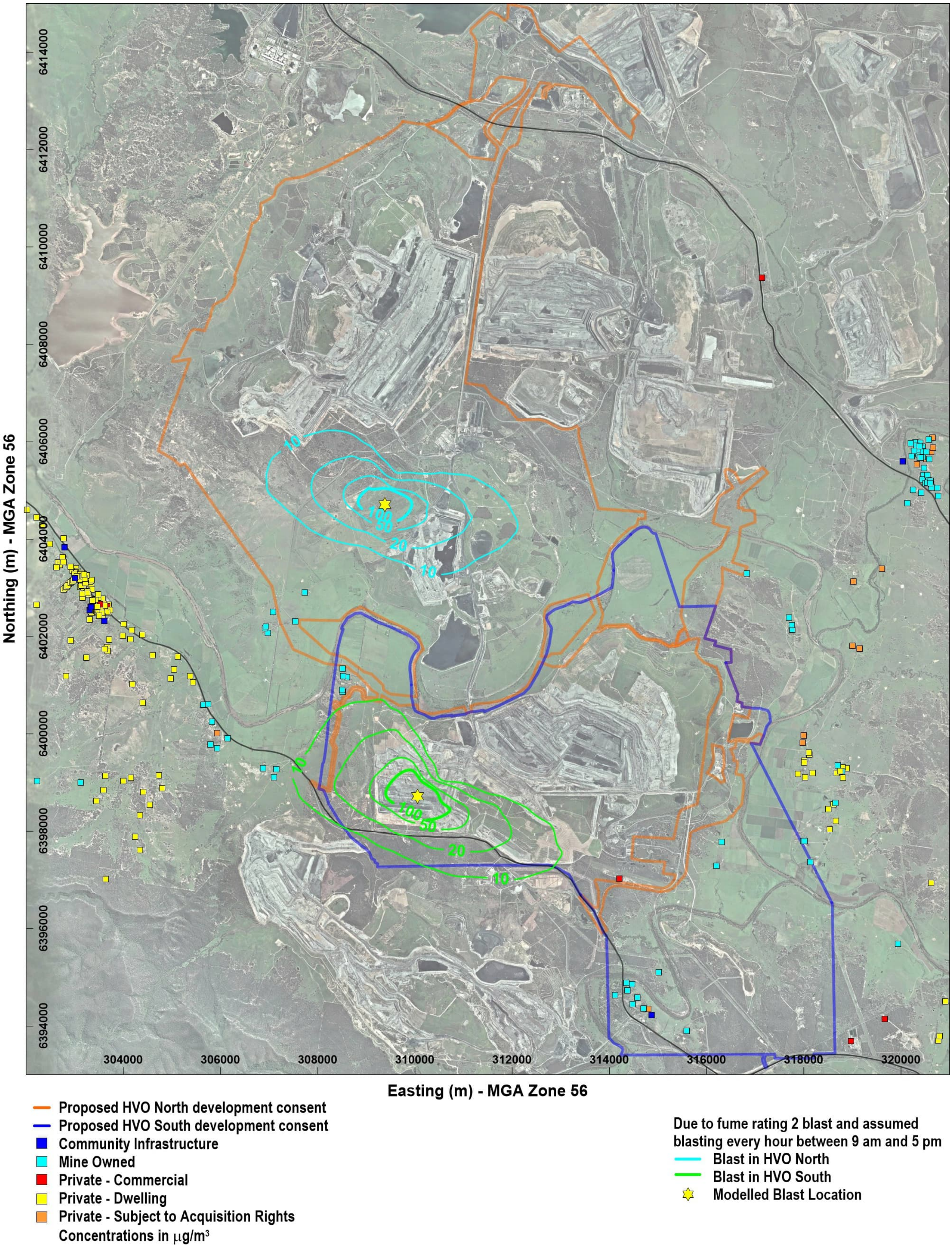



Figure 41 Modelled 99th percentile nose-response time average $NO_2$ due to blasting

## 7.4 Operational Diesel Exhaust

**Figure 42** shows the modelled maximum 1-hour average $NO_2$ concentrations due to diesel exhaust emissions at the HVO Complex, based on the methodology outlined in **Section 5.4**. These results assume that 20% of the $NO_x$ is $NO_2$ at the locations of maximum ground-level concentrations and a maximum background concentration of 74 µg/m$^3$. The results show compliance with the EPA's 164 µg/m$^3$ assessment criterion at all sensitive receptors.

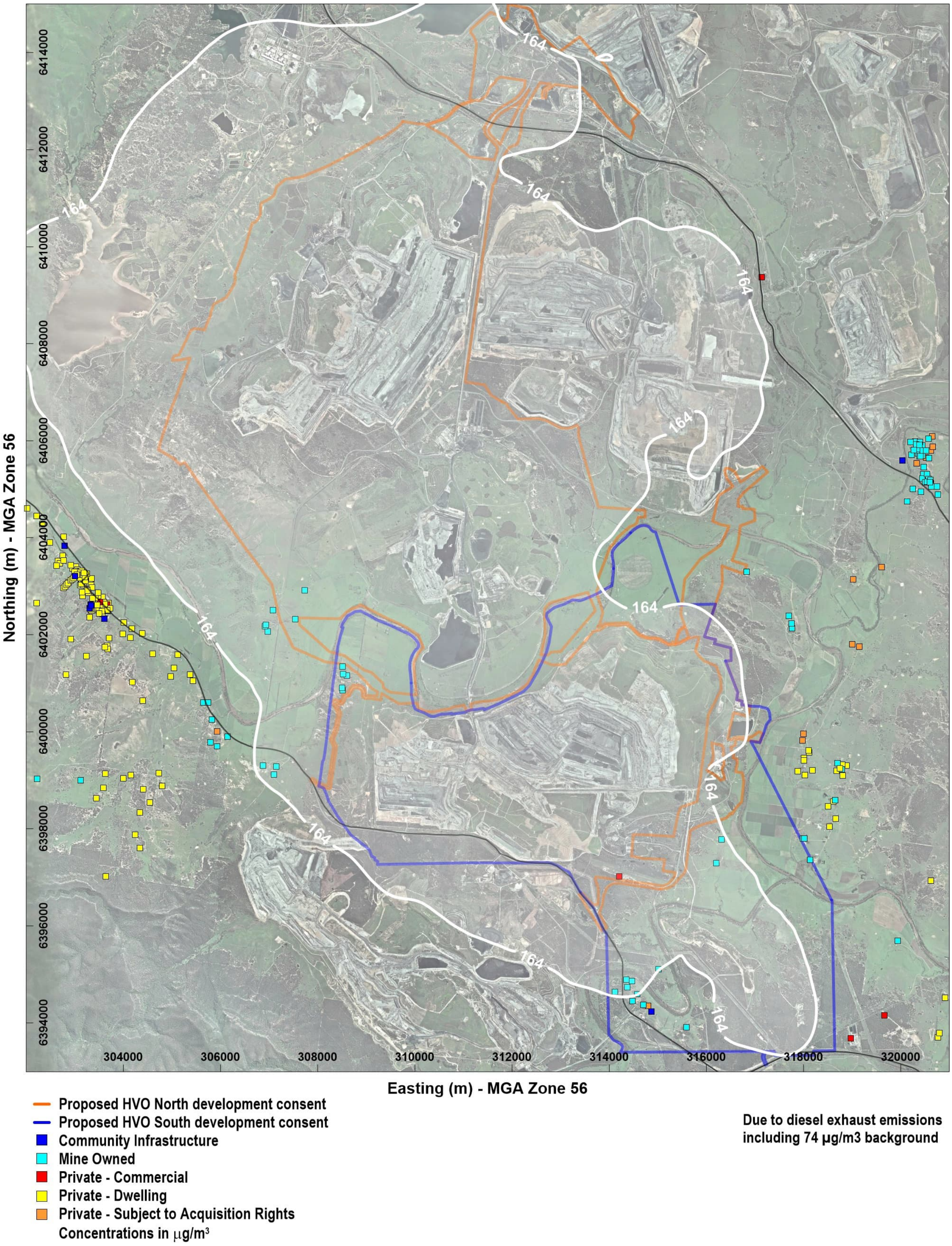



Figure 42 Modelled maximum 1-hour average $NO_2$ due to diesel exhausts (including background levels)

**Figure 43** shows the modelled annual average $NO_2$ concentrations. These results assume that 79% of the $NO_x$ is $NO_2$ (the annual average conversion rate), and 16 µg/m$^3$ background levels. The results show compliance with the EPA's 31 µg/m$^3$ assessment criterion at all sensitive receptors. It has therefore been concluded that the Project will not lead to adverse air quality impacts with respect to diesel exhaust.

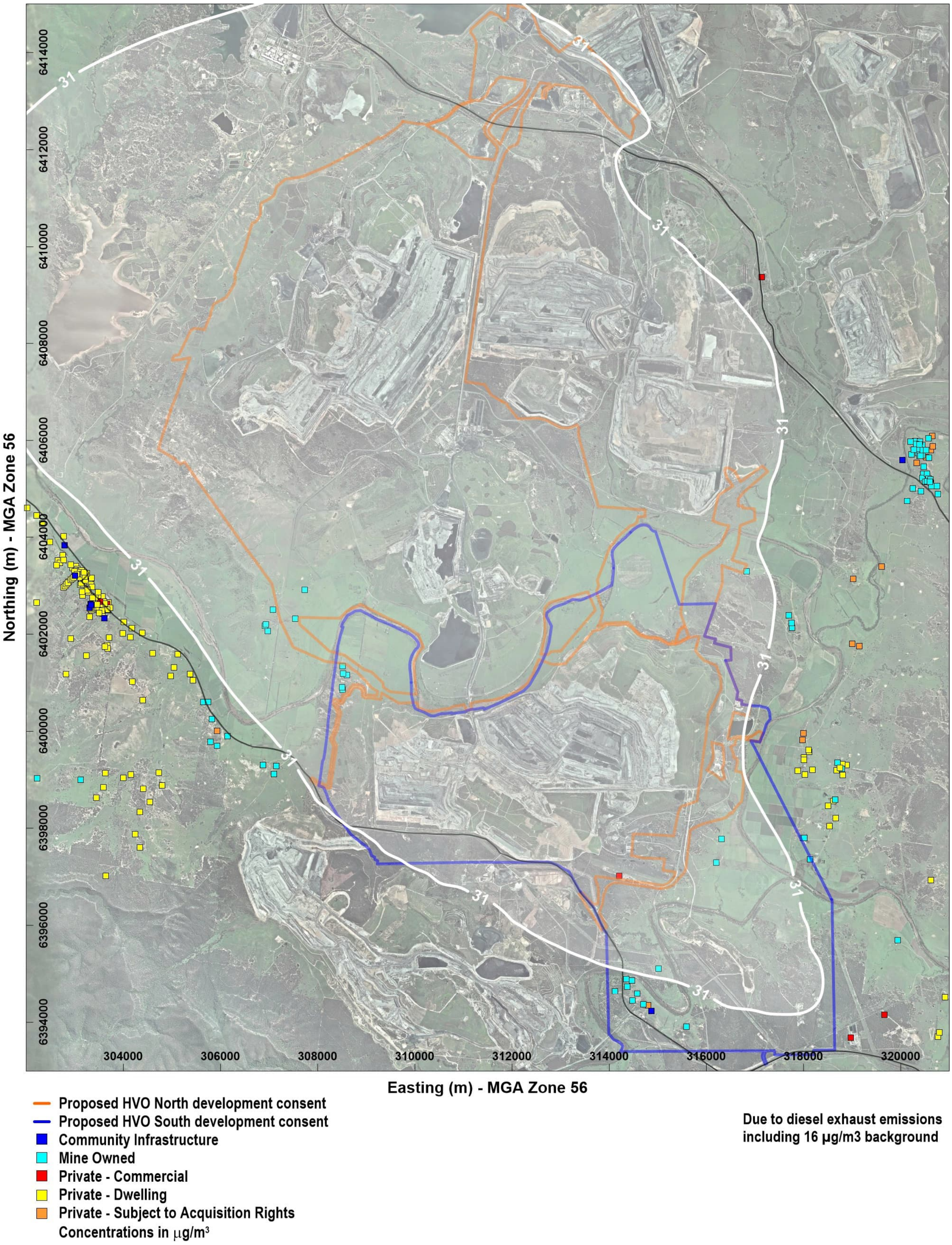



Figure 43 Modelled annual average $NO_2$ due to diesel exhausts (including background levels)

## 7.5 Spontaneous Combustion

"Self-heating" occurs when coal and other carbonaceous materials undergo an exothermic reaction when exposed to oxygen in the air, to generate heat. This process causes the temperature of the material to rise which in turn accelerates the oxidation and, in turn, the heat generation process. As the material temperature rises above about 70°C the temperature acceleration is rapid enough to result in ignition of the material. This ignition is referred to as spontaneous combustion.

The propensity of coal (or carbonaceous material) to self-heat and potentially combust is governed by many factors but most commonly by the type of coal, the carbon content, the size of the particles, the material temperature, the presence of oxygen and quantity of coal. Spontaneous combustion results in the emission of noxious gases including carbon dioxide, carbon monoxide, sulphur dioxide, hydrogen sulphide, nitrogen oxides and a range of volatile organic compounds.

The emissions to air have the potential to lead to the following hazards:

- Adverse health effects due to inhalation;
- Nuisance effects due to odour;
- Fire and hot material;
- Subsidence;
- Smoke and effects on visibility.

The only known spontaneous combustion risk area is located near the Newdell LP. This area continues to be actively monitored and managed. HVO will continue to evaluate and manage potential issues associated with spontaneous combustion. **Section 9.4** provides a summary of the relevant management measures.

# 8. Greenhouse Gas Assessment

## 8.1 Project Emissions

**Table 30** shows the estimated emissions of greenhouse gases due to all identified GHG-generating activities. Over the lifetime of the Project, from 2023 to 2050, Scope 1 and 2 emissions (i.e. direct emissions as per shaded cells) are estimated to average 1.26 Mt $CO_2$-e per year. **Appendix G** provides more detailed breakdowns of the estimated emissions for each activity by mining year including breakdowns by construction and operation.

Table 30 Summary of estimated greenhouse gas emissions

| Period | Estimated greenhouse gas emissions (Mt $CO_2$-e) | | |
|---|---|---|---|
| | Scope 1 | Scope 2 | Scope 3 |
| Annual average | 1.19 | 0.07 | 41.67 |
| Total over life of Project (2023-2050) | 33.28 | 1.88 | 1,166.86 |

**Table 31** provides a breakdown of the greenhouse gas emissions by operation including estimates of the emission intensities and comparisons to other operations. These data show that the direct (Scope 1 and 2) emission intensity of the HVO Complex would be, on average, 0.05 t $CO_2$-e/t ROM coal. This result is within the range of emission intensities published by other operations (i.e. 0.03 to 0.07 t $CO_2$-e/t ROM coal). Some differences can also be explained by the features of each operation. For example, there is generally a higher emission intensity for operations that mine deeper seams, such as HVO.

Table 31 Greenhouse gas emission intensity and comparisons with other operations

| Operation | ROM (Mt/y) | Scope 1 and 2 (Mt $CO_2$-e/y) | Intensity (t $CO_2$-e/t ROM) |
|---|---|---|---|
| **Project (2023-2050)** | | | |
| HVO North | 18.87 | 0.78 | 0.04 |
| HVO South | 7.44 | 0.48 | 0.06 |
| HVO Complex | 26.31 | 1.26 | 0.05 |
| **Other operations for comparison** | | | |
| Mt Pleasant | 16 | 0.54 | 0.03 |
| Mangoola | 13.5 | 0.46 | 0.03 |
| Warkworth | 18 | 0.47 | 0.03 |
| Bengalla | 15 | 0.77 | 0.05 |
| Mt Arthur | 32 | 2.2 | 0.07 |

**Figure 44** shows the estimated direct and indirect emissions by scope and by activity. These estimates show that fugitive emissions from coal extraction and diesel usage would be the most significant direct (Scope 1) emissions. As diesel fuel consumption represents nearly half of estimated direct emissions, the existing measures are generally focused on minimising greenhouse gas emissions through the efficient use of diesel (see **Section 9.5**). **Section 9** outlines the management measures for the Project including those relevant to the minimisation of greenhouse gas emissions.

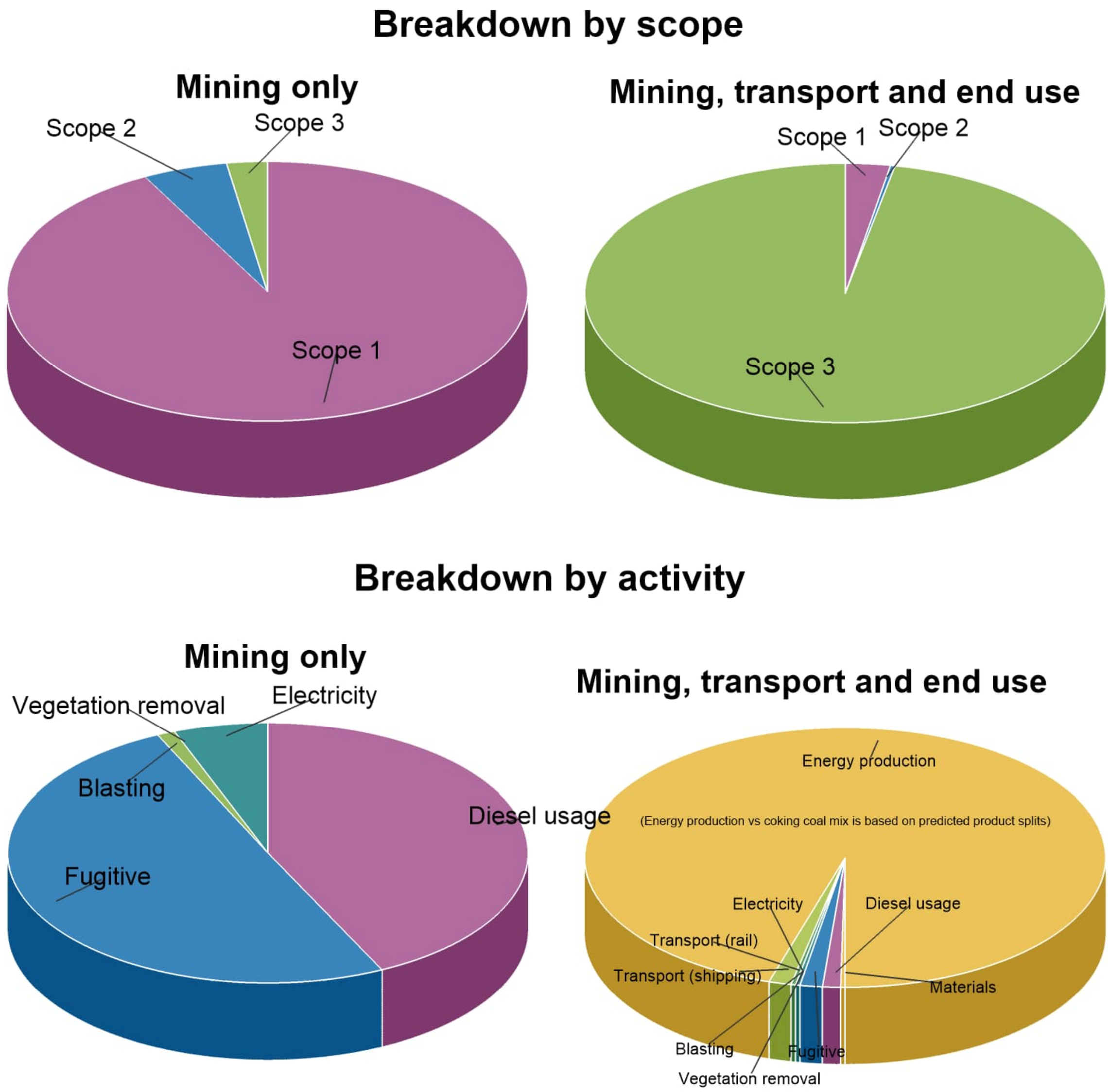



Figure 44 Summary of greenhouse gas emissions by scope and activity

## 8.2 Potential Impacts of the Project

The Commonwealth Department of Industry, Science, Energy and Resources (DISER) (2022) provides a National Greenhouse Gas Inventory, where statistics on emissions per annum are stored, and detailed analysis of sources can be determined. To develop the context for this assessment, the impacts of the emissions projected in this assessment have been compared with the latest emissions officially recorded on the National Greenhouse Gas Inventory. The latest available annual data through the inventory is from 2020.

**Table 32** presents these national and state figures in context with the projected emissions from the Project. The convention is to compare the Project emissions with the national and state figures however the national and state figures will already include contributions from the approved operation. This means that it would be more relevant to present the Project increment. Nevertheless, the estimated annual average Scope 1 and 2 emissions from the Project (1.26 Mt $CO_2$-e) represent approximately 0.25% of Australia's 2020 emissions.

Table 32 Greenhouse gas emissions in the National and State context

| Parameter | Value |
|---|---|
| **National and State statistics** | |
| 2020 Total Australia GHG emissions (Mt $CO_2$-e) | 497.7 |
| 2020 Total NSW GHG emissions (Mt $CO_2$-e) | 132.4 |
| **Project statistics** | |
| Average projected GHG emissions per year (Mt $CO_2$-e) | 1.26 |
| Proportion of 2020 total Australia emissions | 0.25% |
| Proportion of 2020 total NSW emissions | 0.95% |

In addition to the direct emissions associated with the Project, the following emissions sources are relevant to operations:

- Rail and sea transport of the product coal to customers; and
- Combustion of the product coal by customers.

The indirect sources listed above have been classified as Scope 3 for the Project as the emissions, while a result of the activities at HVO, are from sources not owned or operated by HVO. As noted in **Section 3.2** the purpose of differentiating between the scopes of emissions is to avoid the potential for double counting, where two or more organisations assume responsibility for the same emissions. Coal produced by HVO is predominantly exported to Asian markets. These countries are either signatories to the Paris Agreement and / or have announced or adopted domestic laws or policies to achieve their emissions targets.

To gain an understanding of the Project in the context of the global coal market and global greenhouse gas emissions, the Project's annual coal production volume can be compared to the current global coal demand and the Project's greenhouse gas emissions can be compared to total estimated anthropogenic greenhouse gas emissions. The International Energy Agency (IEA) estimates the current global coal demand to be in the order of 5,644 Mt of coal per annum (in 2021 according to the IEA, 2022). The proposed peak production rate of the Project (HVO North and HVO South) of just under 40 Mt ROM or 28 Mt of product represents approximately 0.5% of the current estimated global coal demand. Demand for coal will vary over the life of the Project. Under the various scenarios, the IEA predicts that future demand for coal will range from 3,024 to 5,149 Mt in 2030, and from 539 to 3,828 Mt in 2050. In all scenarios the production from HVO will continue to represent a relatively low percentage at less than 0.8% by 2030 and less than 0.5% by 2050.

The Projects contribution to global climate change effects would be proportional to its contribution to global greenhouse gas emissions. These emissions would be small in the context of global greenhouse gas emissions (approximately 50 gigatonnes $CO_2$-e). It is acknowledged that all sources of greenhouse gas emissions will contribute in some way towards the potential global, national, state and regional effects of climate change.

## 8.3 Potential Impacts on the Project

The potential impacts of climate change on the Project cannot be determined with a high degree of confidence. This is because of inherent uncertainties associated with the climate change projections. For example, Dowdy et al. (2015) project a generally drier climate, whereas NARCliM (2015) projects a wetter climate. Nevertheless, average temperatures are likely to rise in the Project area, with more frequent extreme temperature events. Rainfall has the potential to both increase and decrease with heavier rainfall events likely to become more frequent.

## 8.4 Greenhouse Gas Policies

The NSW Government's "Strategic Statement on Coal Exploration and Mining in NSW" (2020) notes that:

> *"Ending or reducing NSW thermal coal exports while there is still strong long-term global demand would likely have little or no impact on global carbon emissions. Most coal consumers would be likely to source their coal from elsewhere, and much of this coal would be lower quality compared to NSW coal."*

That is, should the Project be rejected, global coal demand would be satisfied by alternative sources of coal of lower quality that would otherwise be consumed.

One of the Federal Governments key policy measures, designed to achieve a 43% emissions reduction below 2005 levels by 2030 target from the recently commenced *Climate Change Act 2022*, is the proposed amendments to the safeguard mechanism. The safeguard mechanism is a component of the Emissions Reduction Fund; the Australian Governments central climate change policy tool administered by the Clean Energy Regulator. The aim of the safeguard mechanism is to ensure emissions reductions purchased through the Emissions Reduction Fund are not displaced by significant increase in emissions elsewhere in the economy.

The safeguard mechanism applies to 215 designated large facilities (facilities that emit more than 100,000 t CO2e Scope 1 emissions per year) and requires that the net covered emissions of GHG from the operation of a designated large facility do not exceed the baseline applicable to the facility. HVO is a designated large facility as defined by the NGER Act. The safeguard mechanism therefore applies to HVO, and HVO will be subject to the emissions reduction requirements contained within it.

# 9. Monitoring and Management

Monitoring and management is discussed below in the context of the identified air quality and greenhouse gas issues for the Project.

## 9.1 Particulate Matter

**Table 33** summarises the standard emission management measures, currently implemented at the HVO Complex in accordance with the approved Air Quality and Greenhouse Gas Management Plan. These measures will continue to be adopted as part of the Project.

The dust management measures proposed for the Project have been compared to the measures outlined in the "*NSW Coal Benchmarking Study: International Best Practice Measures to Prevent and/or Minimise Emissions of Particulate Matter from Coal Mining*" (Donnelly et al, 2011). This comparison, as per **Table 33**, shows that the proposed measures are consistent with best practice dust mitigation measures. In some instances Donnelly *et al* (2011) identified control measures that were not common practice, or reasonable and/or feasible to apply at any mine in NSW. For example, air extraction to bag filters for drilling operations.

Table 33 Particulate matter emission management measures

| Activity | Emission management measures | Assumed emission control (%) (NPI, 2012, Donelly et al, 2011) | Measures identified from Donnelly et al (2011) | Consistent with best practice |
| --- | --- | --- | --- | --- |
| Topsoil stripping | Watering of haul routes<br>Restricting vehicle speeds<br>Ceasing operations when visible dust is generated<br>Minimise advance clearing to reduce exposed area for wind erosion | 50 | Control measures for this activity are not specifically identified but can be inferred from the bulldozer information below. | Y |
| Drilling | Use of water suppression during drilling<br>Dust curtains<br>Ceasing operations when excessive visible dust is sustained. | 70 | "Best practice control measures include air extraction to a bag filter. No mines were found to use this practice." | N |
| Blasting | Pre-blast checks including review of meteorological conditions | 0 | "Best practice control measures include delaying shot to avoid unfavourable weather conditions and minimising the area blasted" | Y |
| Hauling overburden / coal | Watering of haul routes<br>Regular maintenance of haul routes<br>Restricting vehicle speeds<br>Clearly marked haul routes<br>Fleet optimisation to reduce vehicle kilometres travelled | 85 | "Control measures include watering, grading, well-defined haul routes, speed limits to 40 km/h and/or the use of suppressants." | Y |

| Activity | Emission management measures | Assumed emission control (%) (NPI, 2012, Donelly et al, 2011) | Measures identified from Donnelly et al (2011) | Consistent with best practice |
|---|---|---|---|---|
| Loading and unloading of overburden | Minimisation of material drop height during loading<br>Having less wind exposed dump locations to use during high wind conditions<br>Modifying or ceasing operations during adverse dust conditions | 0 | "Current practices adopted to control emissions from loading and dumping overburden were found to be water application, minimisation of drop heights and suspension or modification of activities during adverse weather conditions. Best practice control measures were identified as minimising drop heights and / or the application of water". | Y |
| Unloading coal to ROM hoppers | Water sprays | 70 | "Best practice control measures for minimising emissions from the ROM hopper is enclosure with air extraction to a fabric filter or other control device. No mines in the GMR adopt this approach." | N |
| Handling coal at CHPP | Water sprays | 70 | Control measures for this process are not specifically identified. | N/A |
| Dozers on coal stockpiles | Modify or cease operations during dusty conditions<br>Reduced travel speed during dusty conditions | 50 | "Best practice control measures include minimising the travel speed and distance travelled by bulldozers and the application of water to keep travel routes moist" | Y |
| Conveyors | Covered / enclosure<br>Belt cleaning<br>Water sprays | 70 | "The use of wind shielding on conveyor sides, water sprays at conveyor transfers, enclosure of transfer points, and, soft-loading chutes." | Y |
| Wind erosion | Primary rehabilitation and temporary seeding/ stabilisation of long term inactive overburden dumps. | 60 | "Control measures include watering exposed areas, minimising areas of disturbance, progressive rehabilitation and use of suppressants" | Y |
| Wind erosion from product stockpiles | Water sprays used in adverse wind conditions | 50 | Control measures include avoidance, surface stabilisation, enclosure, wind speed reduction. | Y |

The key measures that will continue to be implemented as part of the Project include:

- minimising the area of disturbed land at any one time, in line with the approved Rehabilitation Management Plan
- implementation of timely progressive rehabilitation
- adopting controls for haul road dust emissions
- review of meteorological conditions prior to blasting
- consideration of meteorological conditions in planning the loading and unloading of overburden
- applying water and using dust curtains when drilling blast patterns
- minimising fall distance during loading and unloading of overburden
- utilising water carts on ROM coal stockpile areas
- maintaining the existing covered conveyors and belt cleaning
- maintaining and servicing machinery, exhaust systems and plant equipment in accordance with contemporary maintenance practices
- implementation of the Trigger Action Response Plan (TARP) process and investigating dust levels when the TARP process is enacted to identify likely sources of dust
- using temporary rehabilitation and stabilisation measures on long term inactive overburden areas that are not ready for final rehabilitation.

In addition to the measures listed above, both proactive and reactive dust control strategies informed by real-time dust and meteorological monitoring systems are currently implemented at the HVO Complex. Reactive air quality management will continue to assess the need to modify the activities in response to the following triggers:

- visual conditions, such as excessive visible dust
- meteorological conditions, such as dry, strong wind conditions
- ambient air quality conditions (that is, elevated short-term $PM_{10}$ concentrations).

Proactive air quality management involve the discussion and planning of activities in advance of potentially adverse conditions. Specifically, the pro-active air quality management approach includes:

- a system that provides personnel with a daily forecast of expected dust risk in the vicinity of the operation
- communication of the dust forecast at daily operational meetings
- alerting operations of the potential requirement to modify the planned mining activities, as appropriate, to minimise or avoid the potential dust impacts.

As part of the implementation of the Project the existing Air Quality and Greenhouse Gas Management Plan will be reviewed and updated. The Air Quality and Greenhouse Gas Management Plan will be revised to detail the implementation of monitoring and management controls to manage air quality impacts associated as required.

A review of the existing air quality monitoring locations will be undertaken prior to the commencement of the Project to make sure that the monitoring network provides adequate coverage of the Project area, particularly in areas identified by the modelling with a potential for increased air quality impact risk. Any changes to the monitoring network will also be included in a revised Air Quality and Greenhouse Gas Management Plan.

It is anticipated that the existing EPL will be revised under the *Protection of the Environment (Operations) Act 1997* (POEO Act). Relevant to air quality, the EPL includes requirements to minimise dust emissions and to monitor air quality. Also relevant is the *Protection of the Environment Operations (Clean Air) Regulation 2010* which prescribes requirements for motor vehicle emissions (among other sources). Motor vehicle emissions would be addressed by regular maintenance of all vehicles associated with the Project.

## 9.2 Post Blast Fume

HVO applies a pre-blasting risk assessment process which covers fume management. A site-specific blast management plan will be implemented during operations, including key fume management actions, such as defining the potential risk zone based upon weather patterns and obtaining permissions to fire based on an assessment of real-time weather conditions.

## 9.3 Diesel Exhaust

The proposed mitigation measures to manage diesel combustion emissions aim to address the equipment maintenance and engine replacement strategies from the *NSW Coal Mining Benchmarking Study: Best practice measures for reducing non-road diesel exhaust emissions"* (EPA, 2014).

The emission control measures proposed by HVO include:

- Servicing all machinery in accordance with original equipment manufacturer recommendations for maintenance.
- Targeting the maintenance to ensure, as far as reasonably practical, equipment remains fit for purpose over its whole life cycle.

## 9.4 Spontaneous Combustion

HVO will continue to evaluate and manage potential issues associated with spontaneous combustion as documented in the approved Air Quality and Greenhouse Gas Management Plan.

HVO is committed to the management of potential air quality issues associated with spontaneous combustion. This commitment is demonstrated by the application of a hierarchy of management controls. HVO's hierarchy of controls applied to spontaneous combustion will continue to be as follows:

- **Elimination –** Where possible, processing and shipping of coal for its end use before the oxidation reaction that leads to spontaneous combustion occurs.
- **Separation –** Where material has or is showing signs of spontaneous combustion it is stockpiled separate from other inert coals to avoid spreading the heating.
- **Engineering –** Controls that minimise the impact of hot material such as selective digging and/or burying.
- **Procedures –** Including early identification of spontaneous combustion; dealing with heated materials; provision of protective or first response capacity; and preparing for / cleaning up after spontaneous combustion.

## 9.5 Greenhouse Gas Emissions

Mitigation of GHG emissions is inherent in the development of the mine plan. For example, reducing fuel usage by mobile plant and equipment is an objective of mine planning and good practice. Hence, savings of GHG emissions are attributable to appropriate mine planning. The mitigation measures to reduce the level of future GHG emissions from HVO are documented in the Air Quality and Greenhouse Gas Management Plan.

It is anticipated that the Clean Energy Regulator will set a calculated emissions baseline determination under the provisions of the National Greenhouse and Energy Reporting (Safeguard) Rule 2015, and likely based on calculated emissions from the Project (see **Table 14**). Any limits on fugitive emissions should relate to the rate of coal extraction rather than to annual predictions of emissions and should allow for some deviation in emission rates from predicted emissions. HVO will acknowledge the baseline determination and performance measures and modify operations, where reasonable and feasible, to minimise greenhouse gas emissions.

# 10. Conclusions

This report has provided an assessment of the potential air quality and greenhouse gas impacts of the HVO Continuation Project. In summary, the air quality assessment involved identifying the key air quality issues, characterising the existing environment, quantifying emissions to air and modelling the potential impact of the Project on local air quality. The modelling was carried out in accordance with the assessment procedures prescribed by the EPA. Greenhouse gas emissions were estimated in accordance with the principles of the Greenhouse Gas Protocol.

The key air quality issues were identified as construction dust, operational dust, operational post-blast fume and operational diesel exhaust. These issues were the focus of the assessment.

A detailed review of the existing environment was carried out including an analysis of historically measured concentrations of key quality indicators from representative monitoring stations. This included analysis of eight years of site-specific monitoring data. The following conclusions were made in relation to the existing environment:

- Meteorological conditions do not vary significantly from year to year, except for rainfall, and conditions in 2014 were identified as most representative of the long term, local conditions around the HVO Complex. Consideration of an alternative representative meteorological year does not change the assessment outcomes.
- Air quality conditions are strongly correlated to the climatic conditions. For example, there was a deterioration in air quality conditions between 2017 and early 2020 that were heavily influenced by drought, dust storms and bushfires. These conditions were not unique to the Hunter Valley.

The key outcomes of the modelling and subsequent assessment are:

- Construction activities have the potential to increase the overall dust emissions in the early phase of the Project (that is, first one to three years) but these increases are not of a magnitude that will change the air quality outcomes determined for private sensitive receptors from modelling of operational dust emissions. Nevertheless, appropriate management and monitoring would need to continue during the construction phase.
- Operational dust emissions due to the ongoing mining activities are not expected to cause adverse air quality impacts at the nearby local communities. Modelling potential impacts led to the following specific outcomes:
  - Maximum 24-hour average $PM_{10}$ concentrations would be within the range of historically measured days above the criteria, excluding extraordinary events. The review of recent and historical air quality monitoring data showed that, in the representative year, all monitoring locations recorded between one and six days above the air quality criteria set by the EPA for project assessment purposes. Based on the modelling the Project is not anticipated to change this outcome. The potential for the Project activities to cause exceedances of the criteria can be managed through existing site air quality management measures and this approach has been successfully demonstrated by the site compliance history.
  - Annual average $PM_{10}$ concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights however an increased air quality impact risk was identified for one property in Jerrys Plains (308) in the later years of the Project (around Year 11). The modelled non-compliance with EPA assessment criteria at this property was determined as “unlikely to eventuate” based on (1) historical monitoring in this area that show $PM_{10}$ concentrations 25% lower than the criteria (2) modelled maximum proposed coal extraction rates and (3) a conservative approach to modelling operational controls.
  - Maximum 24-hour average $PM_{2.5}$ concentrations would be within the range of historically measured days above the criteria, excluding extraordinary events. The review of recent and historical air quality monitoring data showed that, in the representative year, all monitoring locations recorded between

one and two days above the air quality criteria. Based on the modelling the Project is not anticipated to change this outcome.

- Annual average $PM_{2.5}$ concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights, however an increased air quality impact risk was identified for one property in Jerrys Plains (308) in the later years of the Project (around Year 11).
- Annual average TSP concentrations would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights. That is, the Project would not be the cause of exceedances.
- Annual average deposited dust levels would comply with EPA air quality assessment criteria at all private sensitive receptors not subject to existing air quality acquisition rights. That is, the Project would not be the cause of exceedances.
- Dust concentrations and deposition levels would comply with NSW Government VLAMP criteria at all private sensitive receptors not subject to existing air quality acquisition rights however there is potential for criteria (annual average $PM_{10}$ and $PM_{2.5}$) to be exceeded on up to two privately owned properties where a dwelling could be built under existing planning controls.

- Operational post blast fume emissions are not expected to result in any adverse air quality impacts (as nitrogen dioxide and odour), based on modelling which showed compliance with EPA air quality assessment criteria.
- Operational diesel exhaust emissions associated with off-road vehicles and equipment are not expected to result in any adverse air quality impacts, based on modelling which showed compliance with EPA air quality assessment criteria.
- The estimated annual average Scope 1 and 2 greenhouse gas emissions from the Project represent approximately 0.25% of Australia's 2020 emissions. Coal produced by HVO is predominantly exported to countries which are either signatories to the Paris Agreement and / or have announced or adopted domestic laws or policies to achieve their emissions targets. Whilst emissions from the end use of the coal have been calculated as Scope 3 emissions for the purposes of the Project assessment, the HVO customers account for these same emissions as Scope 1 emissions and are required to comply with their respective countries' emissions targets.
- HVO is actively engaged in minimising greenhouse gas emissions associated with their coal operations and supporting the NSW Government objectives of net-zero emissions by 2050.
- HVO will continue to implement air quality and greenhouse gas emission management measures that are consistent with best practice for the industry. In addition, the existing air quality trigger levels will be reviewed to make sure these will mitigate the potential air quality risks, particularly in the Jerrys Plains area.
- A review of the existing air quality monitoring locations will be undertaken prior to the commencement of the Project to make sure that the monitoring network provides adequate coverage of the Project area and recognises the potential air quality impacts from this assessment. Any changes to the monitoring network will also be included in a revised Air Quality and Greenhouse Gas Management Plan.

The conclusions outlined above are consistent with the desired performance outcome for the Project which is to minimise air quality and greenhouse gas impacts to reduce risks to human health and the environment to the greatest extent practicable through the design, construction and operation of the Project.

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# Appendix A. Annual and seasonal wind-roses

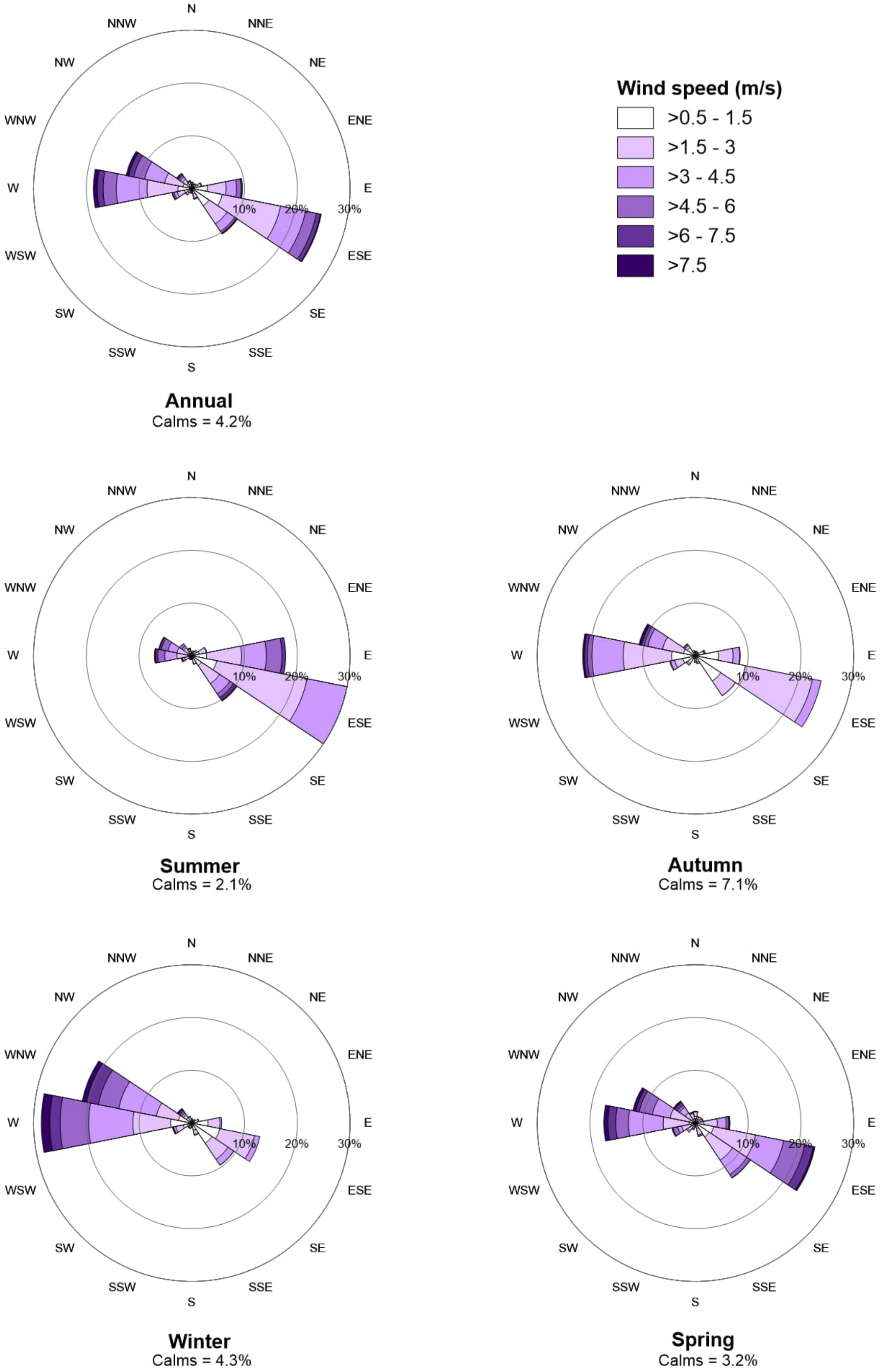


Figure A1 Annual and seasonal wind-roses for data collected at the HVO Corporate meteorological station in 2014

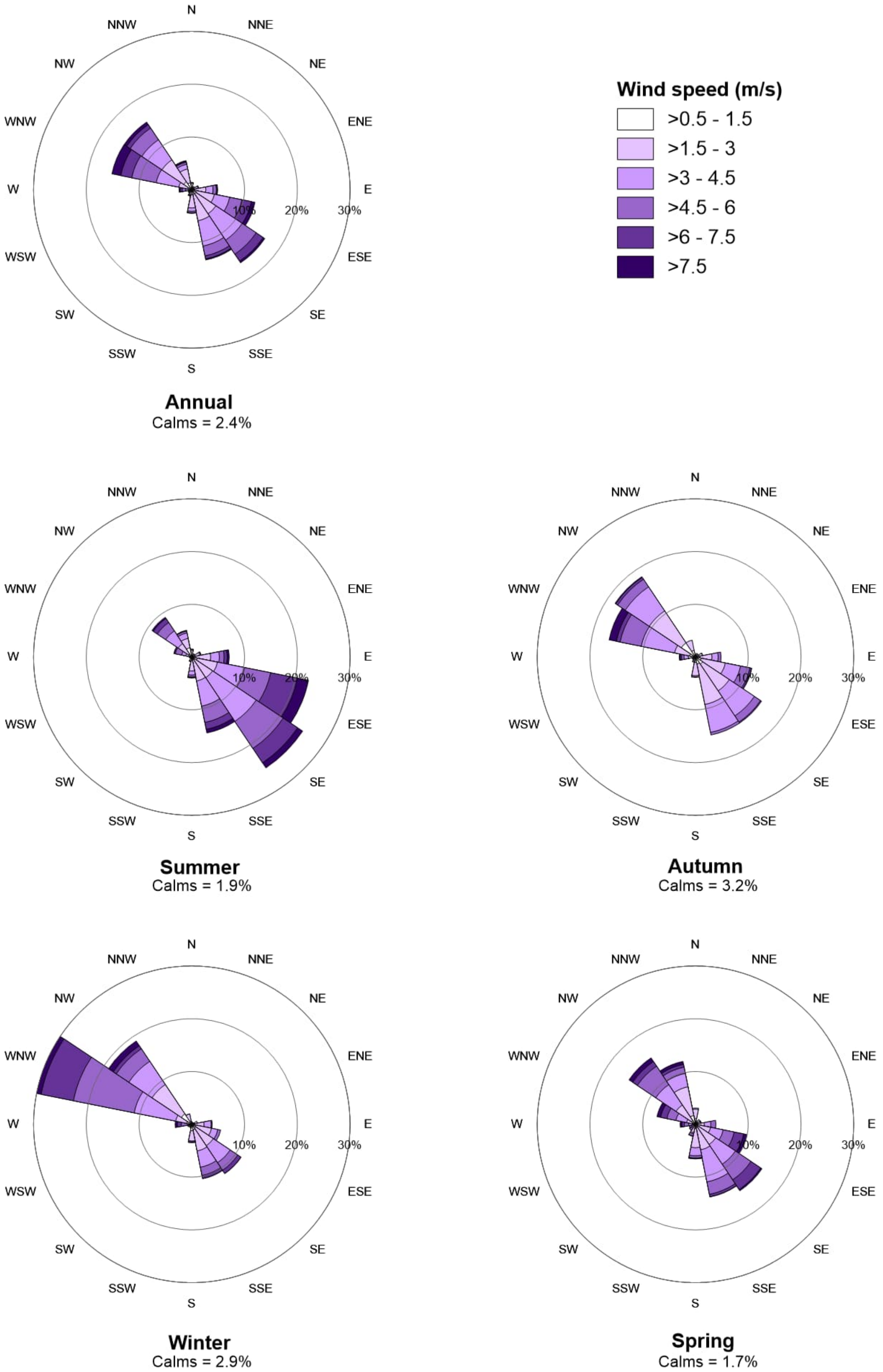


Figure A2 Annual and seasonal wind-roses for data collected at the Cheshunt meteorological station in 2014

# Appendix B. Air quality data analysis

**Figure B1** shows the measured $PM_{10}$ concentrations by time of day and wind speed. The highest short-term (1-hour average) $PM_{10}$ concentrations could be at any time of day but, on average, the concentrations are typically highest in the morning (around 9 am) and evening (around 7 pm). This pattern may be explained by poorer dispersion conditions in the morning and evening whereby any dust emissions disperse more slowly and allow higher concentrations to exist for extended periods of time. Also, the higher average concentrations in the morning and evening may be associated with increased anthropogenic (human) activity at these times, for example the use of wood heaters.

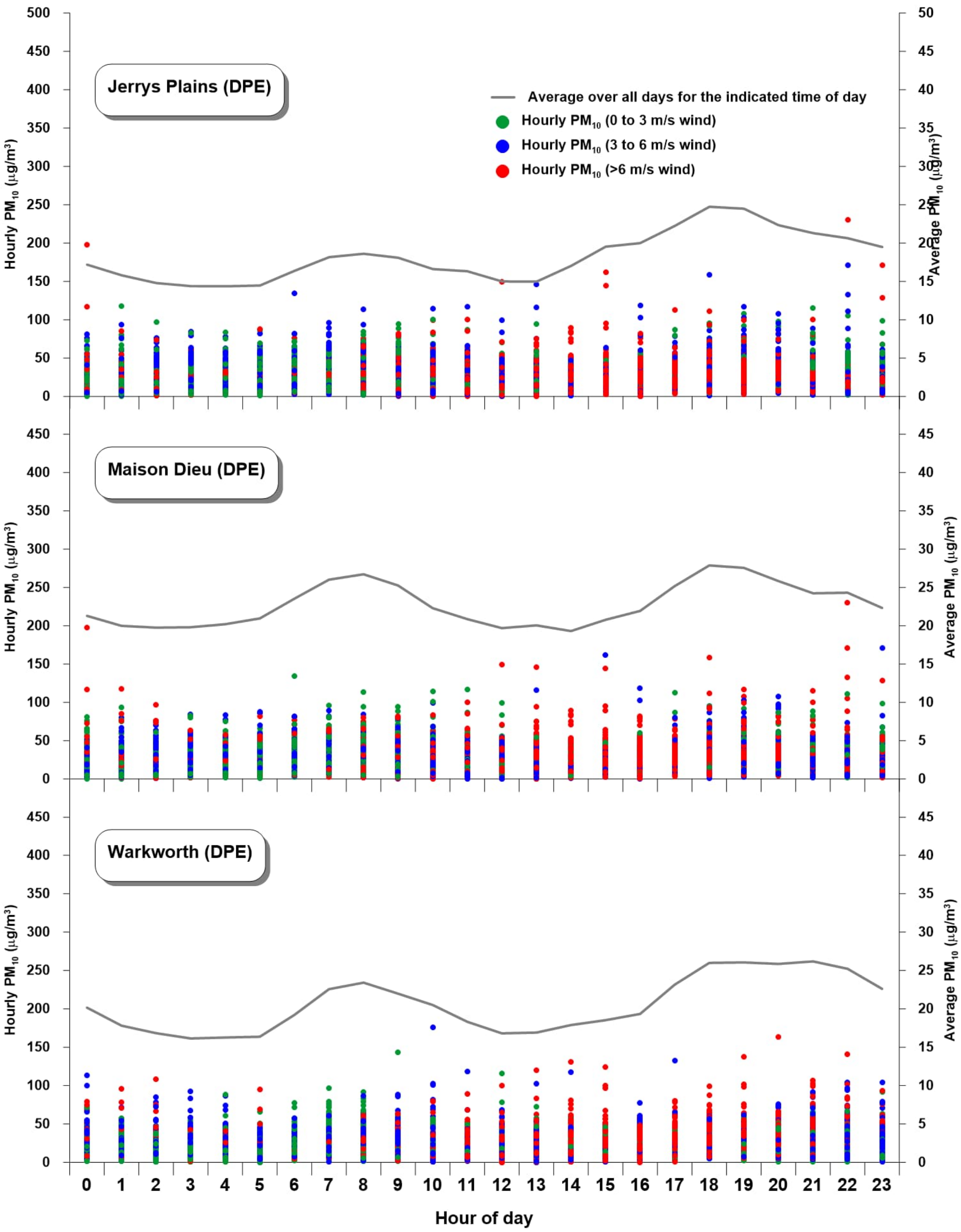


Figure B1 Measured $PM_{10}$ concentrations by time of day and wind speed (2014 data)

**Figure B2** shows the measured $PM_{10}$ concentrations by wind direction. Each location is unique in terms of the wind directions that are associated with higher $PM_{10}$ concentrations.

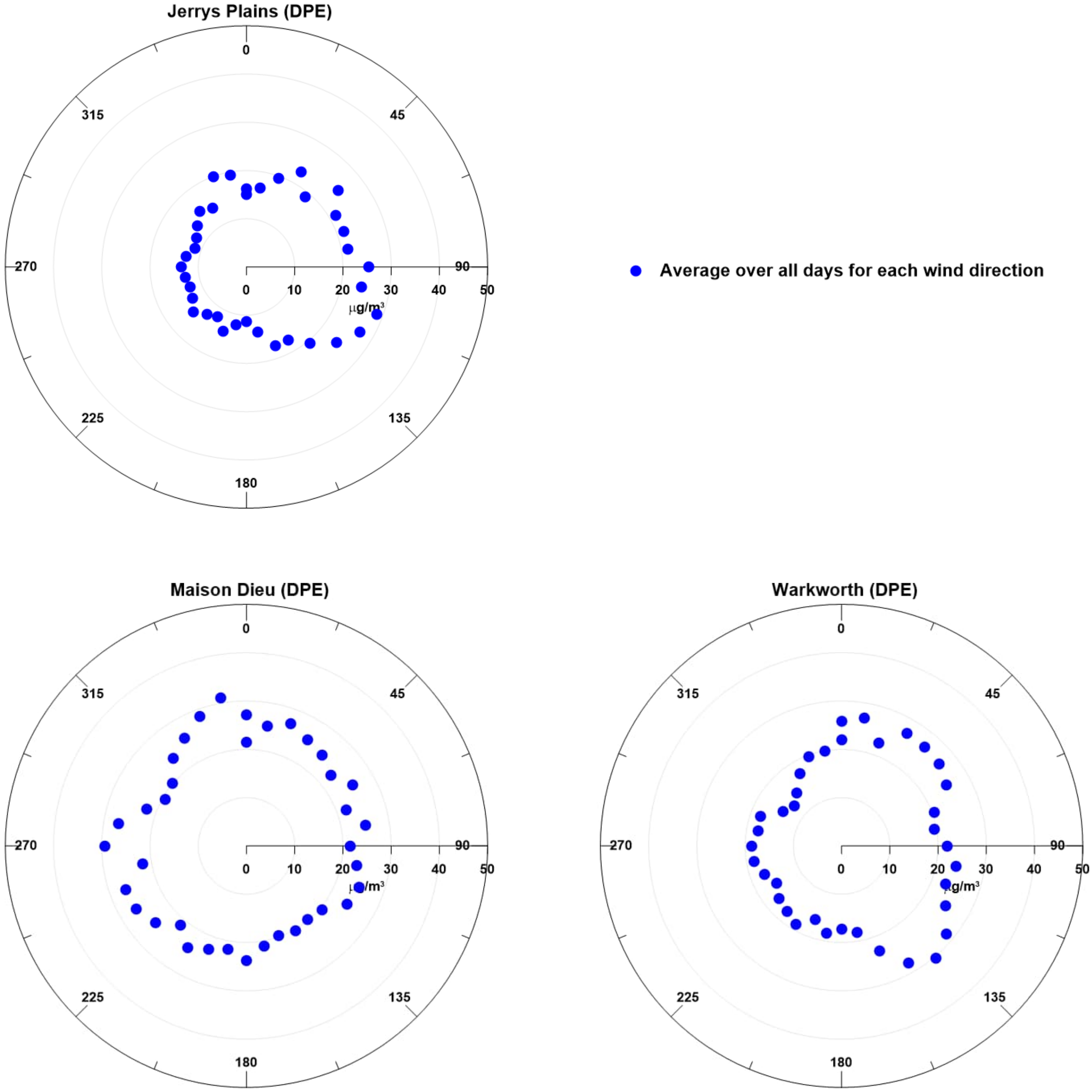


Figure B2 Measured $PM_{10}$ concentrations by wind direction (2014 data)

**Figure B3** shows the measured 24-hour average $PM_{2.5}$ concentrations from various locations in 2020. The instrumentation was as follows:

- High Volume Air Samplers at Kilburnie South and Maison Dieu.
- Beta Attenuation Monitors at Camberwell, Singleton, Newcastle, Kelly and Thelander.

The data from **Figure B3** indicates that the measured $PM_{2.5}$ concentrations at Kilburnie South and Maison Dieu were unusual and did not follow the same trends that were measured by the other monitors. In particular, it would have been anticipated that the measurements from Kilburnie South and Thelander were more closely aligned given their close proximity. Based on these observations, and the availability of more data points, the measurements from Kelly and Thelander were taken to be more representative of $PM_{2.5}$ levels near HVO than the measurements from Kilburnie South and Maison Dieu.

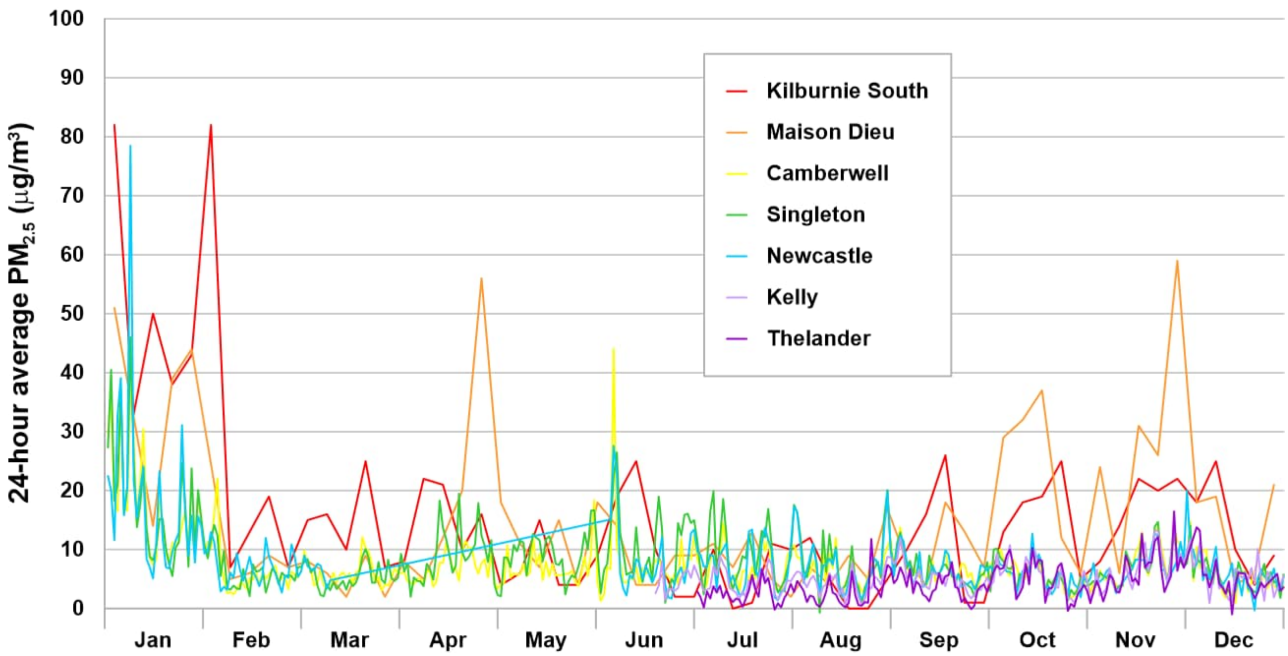


Figure B3 Measured 24-hour average $PM_{2.5}$ concentrations in 2020

# Appendix C. Model settings and setup

### Geophysical

**Figure C1** shows the model grid, land-use and terrain information, as used by CALMET. It is noted that the extent of some land-uses will change over time, such as mining areas, however the model sensitivity has been tested and changes from grassland to barren land (i.e. mining areas) were found to have very little influence on the dispersion modelling results.

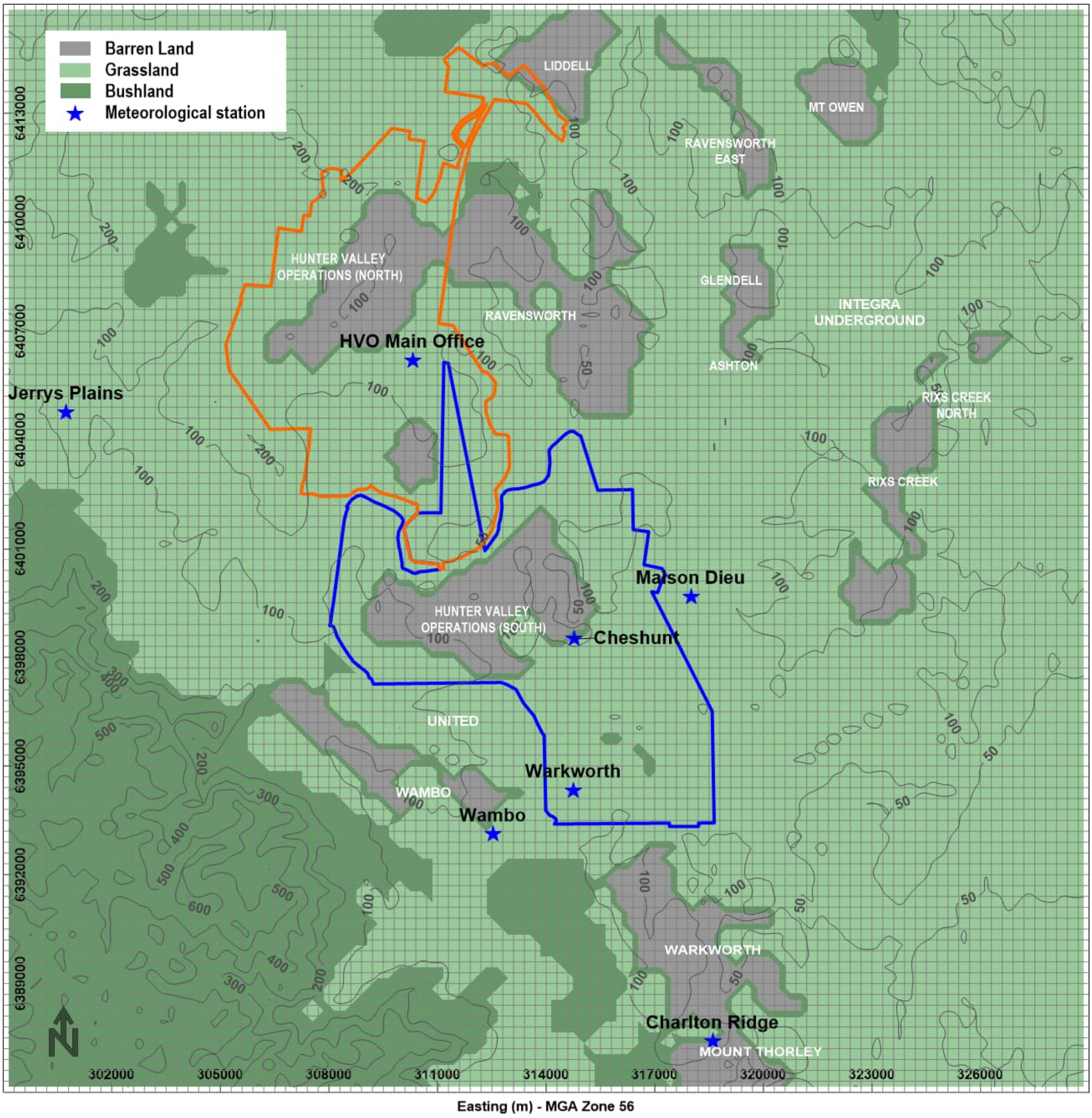


Figure C1 Model domain, grid, land use and terrain information

**Figure C2** shows a snapshot of winds at 10 metres above ground-level as simulated by the CALMET model under stable conditions. This plot shows the effect of the topography on local winds, for this particular hour, and highlights the non-uniform wind patterns in the area, further supporting the use of a non-steady-state model such as CALPUFF.

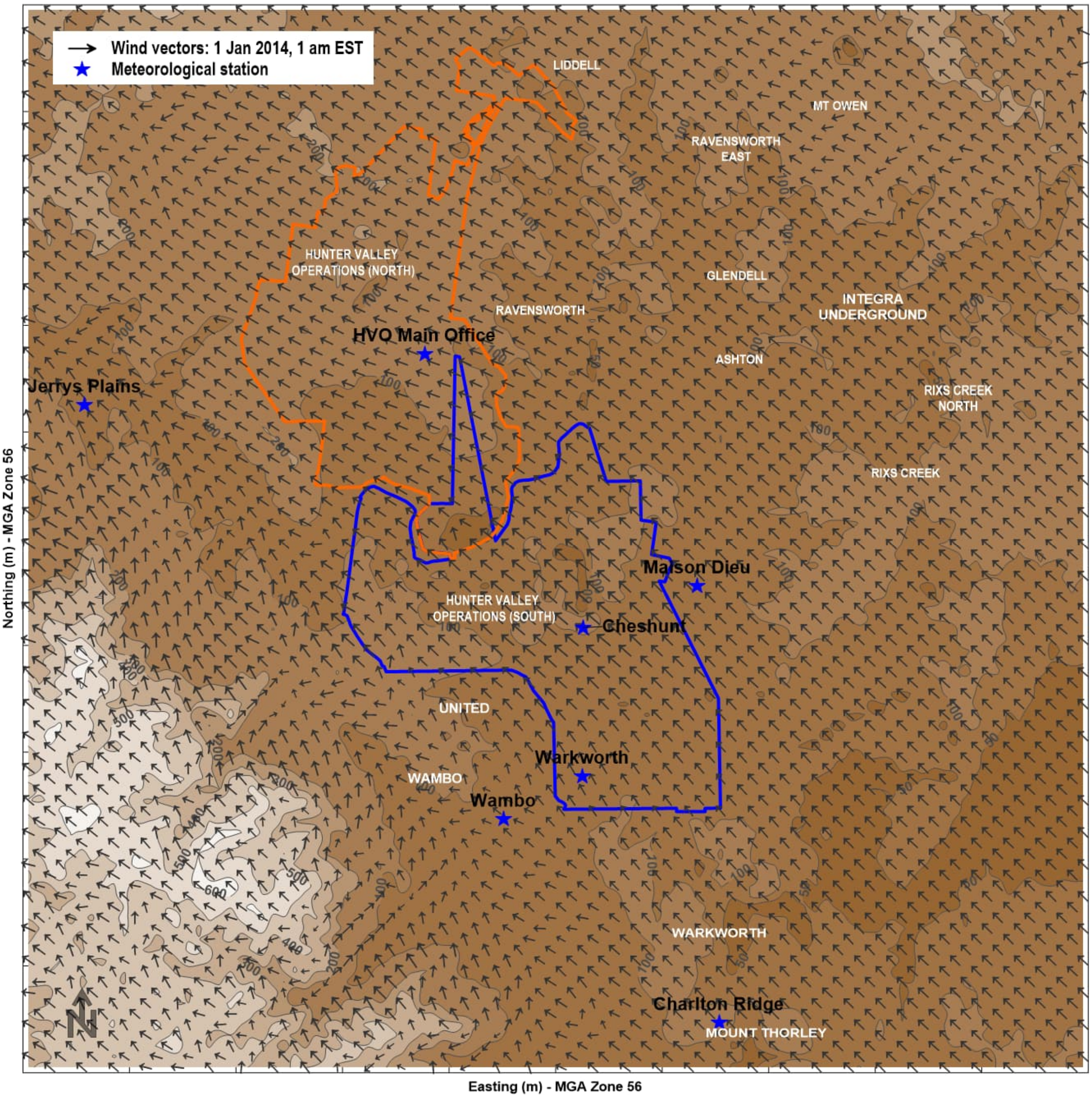


Figure C2 Example of CALMET simulated ground-level wind flows

**Meteorology**

The CALPUFF model, through the CALMET meteorological pre-processor, simulates complex meteorological patterns that exist in a particular region. The necessary upper air data for CALMET were generated by the CSIRO's prognostic model, TAPM, and the required surface observation data were sourced from local weather stations. CALMET was used to produce a year-long, three-dimensional output of meteorological conditions for input to the CALPUFF air dispersion model. The meteorological modelling followed the guidance of TRC (2011) and adopted the "observations" mode.

Table C1 Model settings and inputs for TAPM

| Parameter | Value(s) |
|---|---|
| Model version | 4.0.5 |
| Number of grids (spacing) | 4 (30 km, 10 km, 3 km, 1 km) |
| Number of grids point | 35 x 35 x 25 |
| Year(s) of analysis | 2014 |
| Centre of analysis | 32°29' S, 151°00' E |
| Terrain data source | 30 m Shuttle Research Topography Mission (SRTM) |
| Land use data source | Default |
| Meteorological data assimilation | Corporate meteorological station. Radius of influence = 10 km. Number of vertical levels for assimilation = 4 |

Table C2 Model settings and inputs for CALMET

| Parameter | Value(s) |
|---|---|
| Model version | 6.334 |
| Terrain data source(s) | 30 m SRTM and Project DEM. Higher resolution topographical data were not necessary in order to develop wind fields that reflect the influence of terrain and effects that are important for dispersion of emissions from the Project to the sensitive receptor areas. |
| Land use data source(s) | Digitised from aerial imagery |
| Meteorological grid domain | 30 km x 30 km |
| Meteorological grid resolution | 0.3 km |
| Meteorological grid dimensions | 100 x 100 x 9 grid points |
| Meteorological grid origin | 299000 mE, 6386000 mN. MGA Zone 56 |
| Surface meteorological stations | Charlton Ridge: wind speed, wind direction, temperature and humidity<br>Cheshunt: wind speed, wind direction, temperature and humidity<br>HVO Corporate: wind speed, wind direction, temperature and humidity<br>Jerrys Plains: wind speed, wind direction, temperature and humidity<br>Maison Dieu: wind speed, wind direction, temperature and humidity<br>Wambo: wind speed, wind direction and temperature<br>Warkworth: wind speed, wind direction, temperature and humidity<br>TAPM (at location of HVO Corporate): ceiling height, cloud cover and air pressure |
| Upper air meteorological stations | Upper air data file for the location of the HVO Corporate meteorological station, derived by TAPM. Biased towards surface observations (-1, -0.8, -0.6, -0.4, -0.2, 0, 0, 0, 0) |
| Simulation length | 8760 hours (1 Jan 2014 to 31 Dec 2014) |
| R1, R2 | 0.5, 1 |
| RMAX1, RMAX2 | 5, 20 |
| TERRAD | 5 |

Table C3 Model settings and inputs for CALPUFF

| Parameter | Value(s) |
|---|---|
| Model version | 6.42 |
| Computational grid domain | 100 x 100 |
| Chemical transformation | None |
| Dry deposition | Yes |
| Wind speed profile | ISC rural |

| Parameter | Value(s) |
|---|---|
| Puff element | Puff |
| Dispersion option | Turbulence from micrometeorology |
| Time step | 3600 seconds (1 hour) |
| Terrain adjustment | Partial plume path |
| Number of volume sources | See below. Height = 5 m, SY = 20 m, SZ = 10 m. |
| Number of discrete receptors | 1003. See below. |

**Sources**

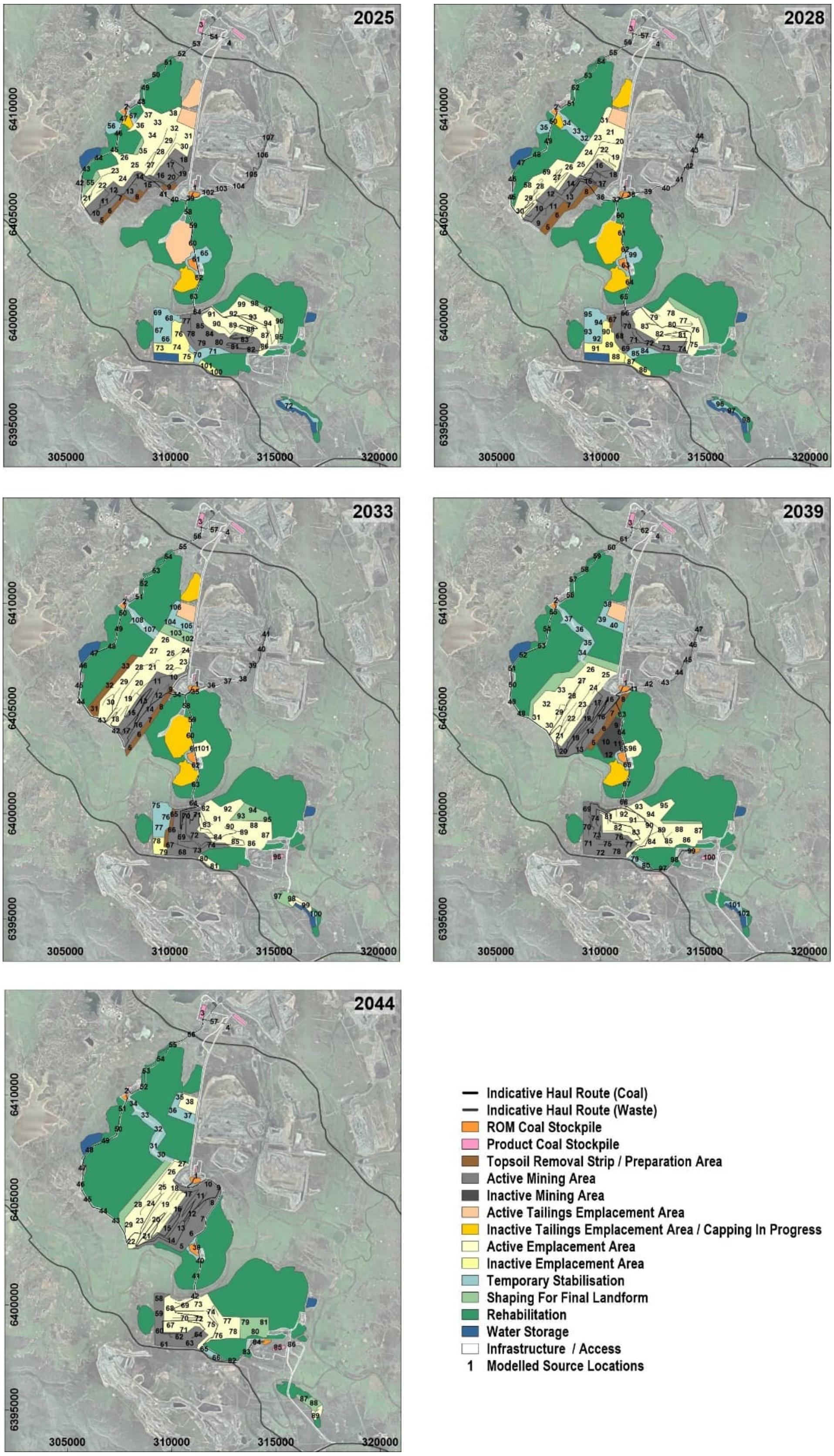


Figure C3 Location of modelled sources of operational dust emissions

### Receptors

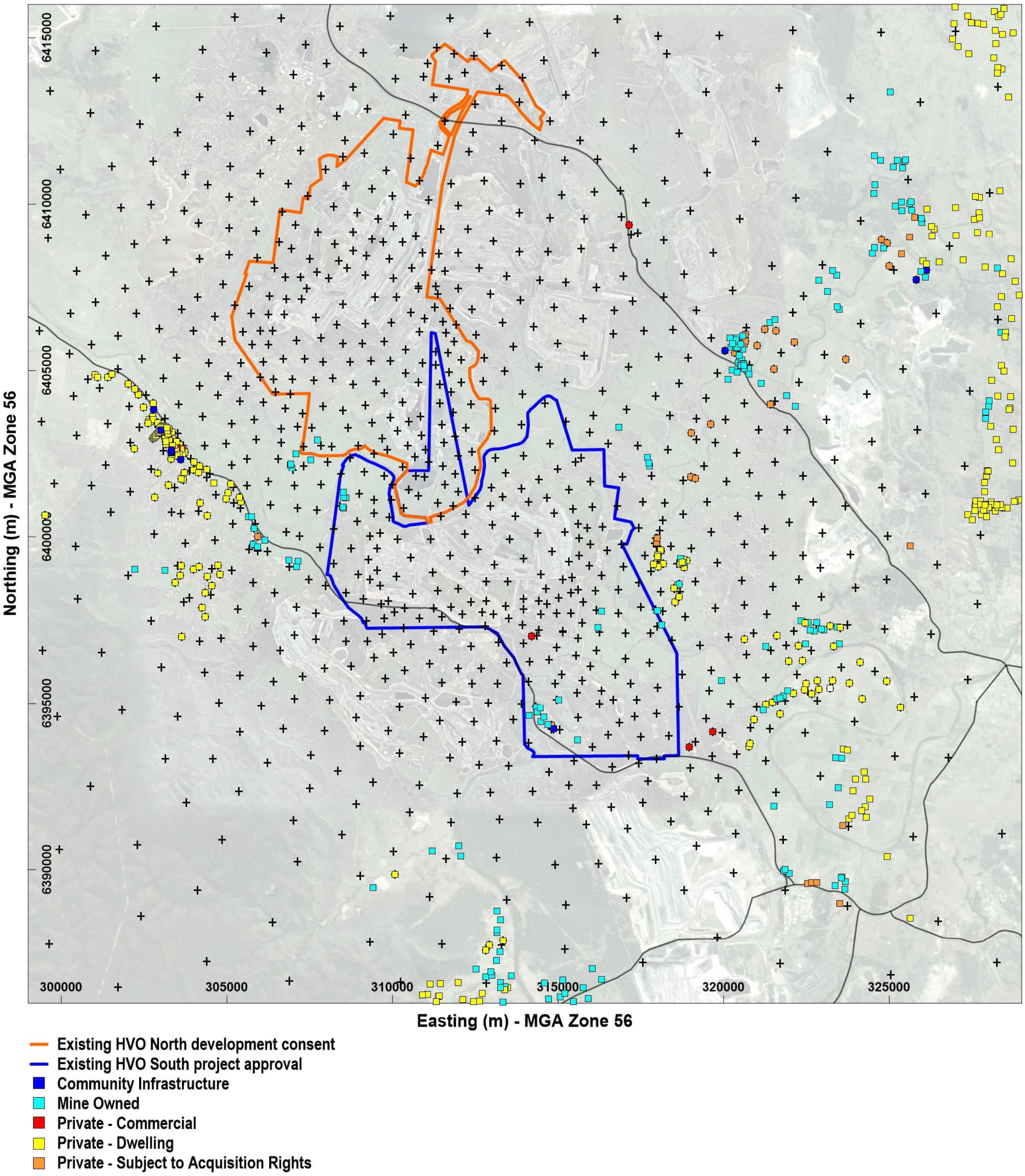


Figure C4 Location of model receptors

# Appendix D. Emission calculations

## Emission factors

| Activity | Emission factor | | | Units | Source |
|---|---|---|---|---|---|
| | TSP | $PM_{10}$ | $PM_{2.5}$ | | |
| Stripping topsoil | $E_{TSP} = 0.029$ | $E_{PM10} = 0.0073 \times E_{TSP}$ | $E_{PM2.5} = 0.05 \times E_{TSP}$ | kg/t | US EPA / NPI |
| Drilling | $E_{TSP} = 0.59$ | $E_{PM10} = 0.52 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/hole | US EPA / NPI |
| Blasting | $E_{TSP} = 0.00022 \times A^{1.5}$ | $E_{PM10} = 0.52 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/blast | US EPA / NPI |
| Loading material / dumping overburden | $E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | kg/t | US EPA / NPI |
| Hauling on unsealed roads | $E_{TSP} = 4$ | $E_{PM10} = 0.3 \times E_{TSP}$ | $E_{PM2.5} = 0.03 \times E_{TSP}$ | kg/VKT | SPCC |
| Dozers shaping overburden | $E_{TSP} = 2.6 \times (S^{1.2}/M^{1.3})$ | $E_{PM10} = 0.3375 \times (S^{1.5}/M^{1.4})$ | $E_{PM2.5} = 0.105 \times E_{TSP}$ | kg/hour | US EPA / NPI |
| Dozers working on coal | $E_{TSP} = 35.6 \times (S^{1.2}/M^{1.3})$ | $E_{PM10} = 6.33 \times (S^{1.5}/M^{1.4})$ | $E_{PM2.5} = 0.022 \times E_{TSP}$ | kg/hour | US EPA / NPI |
| Loading coal | $E_{TSP} = 0.58 / M^{1.2}$ | $E_{PM10} = 0.0447 / M^{0.9}$ | $E_{PM2.5} = 0.019 \times E_{TSP}$ | kg/t | US EPA / NPI |
| Unloading coal | $E_{TSP} = 0.01$ | $E_{PM10} = 0.0042$ | $E_{PM2.5} = 0.019 \times E_{TSP}$ | kg/t | NPI |
| Miscellaneous transfer | $E_{TSP} = 0.74 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM10} = 0.35 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | $E_{PM2.5} = 0.053 \times 0.0016 \times ((U/2.2)^{1.3}/(M/2)^{1.4})$ | kg/t | US EPA / NPI |
| Loading product coal to trains | $E_{TSP} = 0.0004$ | $E_{PM10} = 0.00017$ | $E_{PM2.5} = 0.05 \times E_{TSP}$ | kg/t | NPI |
| Wind erosion from exposed areas | $E_{TSP} = 0.1$ | $E_{PM10} = 0.5 \times E_{TSP}$ | $E_{PM2.5} = 0.075 \times E_{TSP}$ | kg/ha/h | US EPA |
| Grading roads | $E_{TSP} = 0.0034 \times s^{2.5}$ | $E_{PM10} = 0.00336 \times s^{2}$ | $E_{PM2.5} = 0.0001054 \times s^{2.5}$ | kg/VKT | US EPA / NPI |

A = blast area ($m^2$)
U = wind speed (m/s)
M = moisture content (%)
S = silt content (%)
s = speed (km/h)

## Emission inventory
## HVO North 2014

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 7029 | 1769 | 351 | 50 | 484782 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 8352 | 4343 | 251 | 70 | 47185 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 77692 | 40400 | 2331 | 0 | 89 | blasts/y | 874.2 | kg/blast | 454.6 | kg/blast | 26.2 | kg/blast | 25087 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 107454 | 50823 | 7696 | 0 | 70898855 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 1203508 | 355647 | 36105 | 85 | 70898855 | t/y | 0.11317 | kg/t | 0.03344 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 113380 | 53626 | 8120 | 0 | 74808855 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 755629 | 183955 | 79341 | 0 | 45152 | h/y | 16.7 | kg/h | 4.07415 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 29379 | 7152 | 3085 | 0 | 1756 | h/y | 16.7 | kg/h | 4.07415 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 142453 | 41050 | 3134 | 0 | 10661 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 272165 | 39142 | 5171 | 0 | 5690000 | t/y | 0.04783 | kg/t | 0.00688 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 92928 | 27461 | 2788 | 85 | 3095650 | t/y | 0.20013 | kg/t | 0.05914 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 66131 | 19542 | 1984 | 85 | 1269944 | t/y | 0.34716 | kg/t | 0.10259 | kg/t | 0.010 | kg/t | - | - | - | - | 4 | 190 | 17 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 10083 | 2980 | 302 | 85 | 156743 | t/y | 0.42884 | kg/t | 0.12673 | kg/t | 0.013 | kg/t | - | - | - | - | 4 | 190 | 21 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 9287 | 3901 | 176 | 70 | 3095650 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 3810 | 1600 | 72 | 70 | 1269944 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 470 | 197 | 9 | 70 | 156743 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 18574 | 7801 | 353 | 0 | 1857390 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 12699 | 5334 | 241 | 0 | 1269944 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 202 | 96 | 14 | 70 | 3095650 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 83 | 39 | 6 | 70 | 1269944 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 2080 | 984 | 30 | 70 | 6373192 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 415 | 196 | 6 | 70 | 1269944 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 84852 | 24452 | 1867 | 50 | 12700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 31693 | 8542 | 697 | 50 | 8474 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 618 | 292 | 44 | 70 | 12927949 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 131881 | 38972 | 3956 | 85 | 981930 | t/y | 0.89538 | kg/t | 0.26459 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 5564 | 2365 | 278 | 0 | 13909879 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 365196 | 182598 | 27390 | 0 | 417 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 649063 | 324531 | 48680 | 0 | 741 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 0 | 0 | 0 | 60 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 7943 | 3972 | 596 | 50 | 18 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 12300 | 6150 | 923 | 50 | 28 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 42404 | 14992 | 465 | 50 | 137794 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 4265317 | 1454902 | 236463 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO (2015)

## Emission inventory

## HVO South 2014

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 4244 | 1068 | 212 | 50 | 292702 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 21304 | 11078 | 639 | 70 | 120361 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 187753 | 97632 | 5633 | 0 | 192 | blasts/y | 977.3 | kg/blast | 508.2 | kg/blast | 29.3 | kg/blast | 27022 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 232282 | 109863 | 16636 | 0 | 153261145 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2601608 | 768797 | 78048 | 85 | 153261145 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 232282 | 109863 | 16636 | 0 | 153261145 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1632604 | 397451 | 171423 | 0 | 97554 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 63319 | 15415 | 6649 | 0 | 3784 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 226274 | 65205 | 4978 | 0 | 16933 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 588336 | 84612 | 11178 | 0 | 12300000 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 949035 | 280448 | 28471 | 85 | 12245949 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.42884 | kg/t | 0.126726 | kg/t | 0.013 | kg/t | - | - | - | - | 4 | 190 | 21 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 36738 | 15430 | 698 | 70 | 12245949 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 73476 | 30860 | 1396 | 0 | 7347570 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 799 | 378 | 57 | 70 | 12245949 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 3997 | 1891 | 57 | 70 | 12245949 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 421308 | 210654 | 31598 | 0 | 481 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 531235 | 265617 | 39843 | 0 | 606 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 0 | 0 | 0 | 60 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 7366 | 3683 | 552 | 50 | 17 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 92824 | 32818 | 1017 | 50 | 301639 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 7906784 | 2502762 | 415723 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO (2015)

## Emission inventory

## HVO North 2025

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 12950 | 3260 | 648 | 50 | 893132 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 46442 | 24150 | 1393 | 70 | 262383 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 333163 | 173245 | 9995 | 0 | 326 | blasts/y | 1022.9 | kg/blast | 531.9 | kg/blast | 30.7 | kg/blast | 27857 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 226339 | 107052 | 16211 | 0 | 149340305 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2535052 | 749129 | 76052 | 85 | 149340305 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 231492 | 109489 | 16580 | 0 | 152739962 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1205202 | 293402 | 126546 | 0 | 72015 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 227208 | 65474 | 4999 | 0 | 17003 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 434094 | 62430 | 8248 | 0 | 9075360 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 148217 | 43799 | 4447 | 85 | 4937459 | t/y | 0.20013 | kg/t | 0.059139 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 105476 | 31169 | 3164 | 85 | 2025519 | t/y | 0.34716 | kg/t | 0.102588 | kg/t | 0.010 | kg/t | - | - | - | - | 4 | 190 | 17 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 16082 | 4752 | 482 | 85 | 250000 | t/y | 0.42884 | kg/t | 0.126726 | kg/t | 0.013 | kg/t | - | - | - | - | 4 | 190 | 21 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 14812 | 6221 | 281 | 70 | 4937459 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 6077 | 2552 | 115 | 70 | 2025519 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 750 | 315 | 14 | 70 | 250000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 29625 | 12442 | 563 | 0 | 2962475 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 20255 | 8507 | 385 | 0 | 2025519 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 322 | 152 | 23 | 70 | 4937459 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 132 | 63 | 9 | 70 | 2025519 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 2527 | 1195 | 36 | 70 | 7742780 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 661 | 313 | 9 | 70 | 2025519 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 84852 | 24452 | 1867 | 50 | 12700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 31693 | 8542 | 697 | 50 | 8474 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 569 | 269 | 41 | 70 | 11919928 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 200762 | 59327 | 6023 | 85 | 1494789 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 5366 | 2281 | 268 | 0 | 13414717 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 432523 | 216261 | 32439 | 0 | 494 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 810399 | 405200 | 60780 | 0 | 925 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 42125 | 21063 | 3159 | 60 | 120 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 15309 | 7655 | 1148 | 50 | 35 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 11755 | 5877 | 882 | 50 | 27 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 67633 | 23912 | 741 | 50 | 219778 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 7346725 | 2485357 | 383166 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO South 2025

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 0 | 0 | 0 | 50 | 0 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 26837 | 13955 | 805 | 70 | 151622 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 219419 | 114098 | 6583 | 0 | 262 | blasts/y | 838.4 | kg/blast | 436.0 | kg/blast | 25.2 | kg/blast | 24399 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 228393 | 108024 | 16358 | 0 | 150695240 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2558052 | 755925 | 76742 | 85 | 150695240 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 228393 | 108024 | 16358 | 0 | 150695240 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1208199 | 294131 | 126861 | 0 | 72194 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 167453 | 48254 | 3684 | 0 | 12532 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 435394 | 62617 | 8272 | 0 | 9102541 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 702328 | 207544 | 21070 | 85 | 9062541 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.42884 | kg/t | 0.126726 | kg/t | 0.013 | kg/t | - | - | - | - | 4 | 190 | 21 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 27188 | 11419 | 517 | 70 | 9062541 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 54375 | 22838 | 1033 | 0 | 5437525 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 592 | 280 | 42 | 70 | 9062541 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 2958 | 1399 | 42 | 70 | 9062541 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 511922 | 255961 | 38394 | 0 | 584 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 688263 | 344132 | 51620 | 0 | 786 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 94167 | 47083 | 7063 | 60 | 269 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 68694 | 24287 | 753 | 50 | 223226 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 7269485 | 2431378 | 381116 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory
## HVO North 2029

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 16212 | 4081 | 811 | 50 | 1118048 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 66840 | 34757 | 2005 | 70 | 377626 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 546229 | 284039 | 16387 | 0 | 548 | blasts/y | 997.2 | kg/blast | 518.6 | kg/blast | 29.9 | kg/blast | 27390 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 376298 | 177979 | 26951 | 0 | 248284550 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 4214630 | 1245458 | 126439 | 85 | 248284550 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 385550 | 182355 | 27614 | 0 | 254388925 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 2027713 | 493639 | 212910 | 0 | 121164 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 406928 | 117263 | 8952 | 0 | 30453 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 1052308 | 151338 | 19994 | 0 | 22000000 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 347135 | 102581 | 10414 | 85 | 11563863 | t/y | 0.20013 | kg/t | 0.059139 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 312442 | 92329 | 9373 | 85 | 6000000 | t/y | 0.34716 | kg/t | 0.102588 | kg/t | 0.010 | kg/t | - | - | - | - | 4 | 190 | 17 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 271772 | 80311 | 8153 | 85 | 4436137 | t/y | 0.40842 | kg/t | 0.120692 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 20 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 34692 | 14570 | 659 | 70 | 11563863 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 18000 | 7560 | 342 | 70 | 6000000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 13308 | 5590 | 253 | 70 | 4436137 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 69383 | 29141 | 1318 | 0 | 6938318 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 60000 | 25200 | 1140 | 0 | 6000000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 755 | 357 | 54 | 70 | 11563863 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 392 | 185 | 28 | 70 | 6000000 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 4989 | 2360 | 71 | 70 | 15282947 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 1959 | 926 | 28 | 70 | 6000000 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 84852 | 24452 | 1867 | 50 | 12700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 32373 | 8725 | 712 | 50 | 8656 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 857 | 405 | 61 | 70 | 17941887 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 585226 | 172939 | 17557 | 85 | 4357355 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 8920 | 3791 | 446 | 0 | 22299242 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 318508 | 159254 | 23888 | 0 | 364 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 724115 | 362057 | 54309 | 0 | 827 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 84437 | 42218 | 6333 | 60 | 241 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 15309 | 7655 | 1148 | 50 | 35 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 14376 | 7188 | 1078 | 50 | 33 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 109887 | 38851 | 1204 | 50 | 357086 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 12253254 | 3890963 | 587421 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO South 2029

| Activity | Annual emissions (kg/y) TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | TSP Factor | Units | PM10 Factor | Units | PM2.5 Factor | Units | Variables Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stripping topsoil by scraper | 1143 | 288 | 57 | 50 | 78815 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 24892 | 12944 | 747 | 70 | 140635 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 182916 | 95116 | 5487 | 0 | 249 | blasts/y | 733.9 | kg/blast | 381.6 | kg/blast | 22.0 | kg/blast | 22325 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 219641 | 103884 | 15731 | 0 | 144920821 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2460031 | 726959 | 73801 | 85 | 144920821 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 219641 | 103884 | 15731 | 0 | 144920821 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1232292 | 299996 | 129391 | 0 | 73634 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 175333 | 50525 | 3857 | 0 | 13121 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 416623 | 59917 | 7916 | 0 | 8710095 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 653783 | 193198 | 19613 | 85 | 8436137 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.40842 | kg/t | 0.120692 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 20 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 25308 | 10630 | 481 | 70 | 8436137 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 50617 | 21259 | 962 | 0 | 5061682 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 551 | 260 | 39 | 70 | 8436137 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 2754 | 1302 | 39 | 70 | 8436137 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 281190 | 140595 | 21089 | 0 | 321 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 543181 | 271590 | 40739 | 0 | 620 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 66294 | 33147 | 4972 | 60 | 189 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 68088 | 24073 | 746 | 50 | 221256 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 6671135 | 2160977 | 346319 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO North 2033

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 10558 | 2658 | 528 | 50 | 728115 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 65002 | 33801 | 1950 | 70 | 367240 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 552841 | 287477 | 16585 | 0 | 519 | blasts/y | 1064.8 | kg/blast | 553.7 | kg/blast | 31.9 | kg/blast | 28613 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 407385 | 192682 | 29178 | 0 | 268795927 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 4562811 | 1348348 | 136884 | 85 | 268795927 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 416364 | 196929 | 29821 | 0 | 274720041 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 2141260 | 521281 | 224832 | 0 | 127948 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 342006 | 98555 | 7524 | 0 | 25594 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 1052308 | 151338 | 19994 | 0 | 22000000 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 369298 | 109131 | 11079 | 85 | 12302153 | t/y | 0.20013 | kg/t | 0.059139 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 319794 | 94502 | 9594 | 85 | 6000000 | t/y | 0.35533 | kg/t | 0.105002 | kg/t | 0.011 | kg/t | - | - | - | - | 4 | 190 | 17.4 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 222011 | 65606 | 6660 | 85 | 3697847 | t/y | 0.40025 | kg/t | 0.118278 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 19.6 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 36906 | 15501 | 701 | 70 | 12302153 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 18000 | 7560 | 342 | 70 | 6000000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 11094 | 4659 | 211 | 70 | 3697847 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 73813 | 31001 | 1402 | 0 | 7381292 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 60000 | 25200 | 1140 | 0 | 6000000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 803 | 380 | 58 | 70 | 12302153 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 392 | 185 | 28 | 70 | 6000000 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 5272 | 2493 | 76 | 70 | 16149249 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 1959 | 926 | 28 | 70 | 6000000 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 84852 | 24452 | 1867 | 50 | 12700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 31788 | 8567 | 699 | 50 | 8499 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 868 | 410 | 62 | 70 | 18165314 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 590399 | 174468 | 17712 | 85 | 4395871 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 9024 | 3835 | 451 | 0 | 22561185 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 324390 | 162195 | 24329 | 0 | 370 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 850043 | 425022 | 63753 | 0 | 970 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 62023 | 31011 | 4652 | 60 | 177 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 15309 | 7655 | 1148 | 50 | 35 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 14377 | 7188 | 1078 | 50 | 33 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 120090 | 42458 | 1316 | 50 | 390242 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 12819896 | 4088883 | 620603 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory
## HVO South 2033

| Activity | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 3939 | 991 | 197 | 50 | 271632 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 22870 | 11892 | 686 | 70 | 129208 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 176668 | 91868 | 5300 | 0 | 221 | blasts/y | 798.6 | kg/blast | 415.3 | kg/blast | 24.0 | kg/blast | 23619 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 227732 | 107711 | 16311 | 0 | 150259307 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2550652 | 753739 | 76520 | 85 | 150259307 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 227732 | 107711 | 16311 | 0 | 150259307 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1284996 | 312827 | 134925 | 0 | 76783 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 228437 | 65828 | 5026 | 0 | 17095 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 420820 | 60521 | 7996 | 0 | 8797847 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 596567 | 176290 | 17897 | 85 | 7697847 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.40025 | kg/t | 0.118278 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 19.6 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 23094 | 9699 | 439 | 70 | 7697847 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 46187 | 19399 | 878 | 0 | 4618708 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 503 | 238 | 36 | 70 | 7697847 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 2513 | 1188 | 36 | 70 | 7697847 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 320017 | 160008 | 24001 | 0 | 365 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 649930 | 324965 | 48745 | 0 | 742 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 60708 | 30354 | 4553 | 60 | 173 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 0 | 0 | 0 | 50 | 0 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 76425 | 27020 | 838 | 50 | 248348 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 6966646 | 2273657 | 365612 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO North 2040

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 16029 | 4035 | 801 | 50 | 1105425 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 58213 | 30271 | 1746 | 70 | 328889 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 506326 | 263290 | 15190 | 0 | 439 | blasts/y | 1152.9 | kg/blast | 599.5 | kg/blast | 34.6 | kg/blast | 30170 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 451299 | 213452 | 32323 | 0 | 297770841 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 5054660 | 1493694 | 151640 | 85 | 297770841 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 463067 | 219018 | 33166 | 0 | 305535288 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 2178975 | 530463 | 228792 | 0 | 130202 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 348044 | 100295 | 7657 | 0 | 26046 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 970962 | 139640 | 18448 | 0 | 20299363 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 493250 | 145759 | 14797 | 85 | 16431287 | t/y | 0.20013 | kg/t | 0.059139 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 300218 | 88717 | 9007 | 85 | 5568713 | t/y | 0.35941 | kg/t | 0.106209 | kg/t | 0.011 | kg/t | - | - | - | - | 4 | 190 | 17.6 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.39208 | kg/t | 0.115864 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 19.2 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 49294 | 20703 | 937 | 70 | 16431287 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 16706 | 7017 | 317 | 70 | 5568713 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 98588 | 41407 | 1873 | 0 | 9858772 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 55687 | 23389 | 1058 | 0 | 5568713 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 1073 | 507 | 77 | 70 | 16431287 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 364 | 172 | 26 | 70 | 5568713 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 6677 | 3158 | 96 | 70 | 20455695 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 1818 | 860 | 26 | 70 | 5568713 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 111577 | 32153 | 2455 | 50 | 16700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 32356 | 8720 | 712 | 50 | 8651 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 1128 | 533 | 81 | 70 | 23607881 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 540057 | 159591 | 16202 | 85 | 4021042 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 11052 | 4697 | 553 | 0 | 27628923 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 460807 | 230403 | 34561 | 0 | 526 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 899204 | 449602 | 67440 | 0 | 1026 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 78783 | 39392 | 5909 | 60 | 225 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 15309 | 7654 | 1148 | 50 | 35 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 14377 | 7188 | 1078 | 50 | 33 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 133264 | 47116 | 1461 | 50 | 433050 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 13416021 | 4324304 | 654496 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory
## HVO South 2040

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 0 | 0 | 0 | 50 | 0 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 40561 | 21092 | 1217 | 70 | 229158 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 319260 | 166015 | 9578 | 0 | 362 | blasts/y | 883.1 | kg/blast | 459.2 | kg/blast | 26.5 | kg/blast | 25257 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 219022 | 103592 | 15687 | 0 | 144512505 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 2453100 | 724911 | 73593 | 85 | 144512505 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 219022 | 103592 | 15687 | 0 | 144512505 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 1235293 | 300727 | 129706 | 0 | 73813 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 290245 | 83639 | 6385 | 0 | 21721 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 859244 | 123573 | 16326 | 0 | 17963739 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 276568 | 81728 | 8297 | 85 | 3568713 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.39208 | kg/t | 0.115864 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 19.2 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 350 | 103 | 10 | 85 | 14275 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 10706 | 4497 | 203 | 70 | 3568713 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 43 | 18 | 1 | 70 | 14275 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 21412 | 8993 | 407 | 0 | 2141228 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 86 | 36 | 2 | 0 | 8565 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 233 | 110 | 17 | 70 | 3568713 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 1 | 0 | 0 | 70 | 14275 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 1165 | 551 | 17 | 70 | 3568713 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 5 | 2 | 0 | 70 | 14275 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 313265 | 156633 | 23495 | 0 | 358 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 590540 | 295270 | 44290 | 0 | 674 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 20683 | 10342 | 1551 | 60 | 59 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 3487 | 1743 | 262 | 50 | 8 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 3937 | 1968 | 295 | 50 | 9 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 69393 | 24534 | 761 | 50 | 225497 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 6994480 | 2225077 | 352706 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO North 2044

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 0 | 0 | 0 | 50 | 0 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 69597 | 36191 | 2088 | 70 | 393205 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 603025 | 313573 | 18091 | 0 | 538 | blasts/y | 1120.7 | kg/blast | 582.8 | kg/blast | 33.6 | kg/blast | 29606 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 443030 | 209541 | 31730 | 0 | 292314347 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 4962036 | 1466323 | 148861 | 85 | 292314347 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 451607 | 213598 | 32345 | 0 | 297973754 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 2344071 | 570655 | 246128 | 0 | 140067 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 351144 | 101188 | 7725 | 0 | 26278 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 1052308 | 151338 | 19994 | 0 | 22000000 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 528333 | 156127 | 15850 | 85 | 17600000 | t/y | 0.20013 | kg/t | 0.059139 | kg/t | 0.006 | kg/t | - | - | - | - | 4 | 190 | 9.8 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 231820 | 68505 | 6955 | 85 | 4400000 | t/y | 0.35124 | kg/t | 0.103795 | kg/t | 0.011 | kg/t | - | - | - | - | 4 | 190 | 17.2 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.38392 | kg/t | 0.11345 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 18.8 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 52800 | 22176 | 1003 | 70 | 17600000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 13200 | 5544 | 251 | 70 | 4400000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 105600 | 44352 | 2006 | 0 | 10560000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 44000 | 18480 | 836 | 0 | 4400000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 1149 | 543 | 82 | 70 | 17600000 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 287 | 136 | 21 | 70 | 4400000 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 6994 | 3308 | 100 | 70 | 21426508 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 1436 | 679 | 21 | 70 | 4400000 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 111577 | 32153 | 2455 | 50 | 16700 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 32918 | 8872 | 724 | 50 | 8801 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 803 | 380 | 58 | 70 | 16812937 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 425996 | 125885 | 12780 | 85 | 3171791 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 7994 | 3397 | 400 | 0 | 19984728 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 468350 | 234175 | 35126 | 0 | 535 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 836034 | 418017 | 62703 | 0 | 954 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 85984 | 42992 | 6449 | 60 | 245 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 15309 | 7654 | 1148 | 50 | 35 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 14377 | 7189 | 1078 | 50 | 33 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 136988 | 48432 | 1501 | 50 | 445151 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 13445626 | 4322811 | 663428 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

## Emission inventory

## HVO South 2044

| | Annual emissions (kg/y) | | | | | | TSP | | PM10 | | PM2.5 | | Variables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity | TSP | PM10 | PM2.5 | Control (%) | Intensity | Units | Factor | Units | Factor | Units | Factor | Units | Area (m2) | (ws/2.2)^1.3 | Moisture (%) | Drop distance (m) | kg/VKT | t/truck | km/trip | Silt (%) | Speed (km/h) |
| Stripping topsoil by scraper | 0 | 0 | 0 | 50 | 0 | t/y | 0.029 | kg/t | 0.0073 | kg/t | 0.001 | kg/t | - | - | - | - | - | - | - | - | - |
| Drilling overburden (or coal) | 6541 | 3401 | 196 | 70 | 36953 | holes/y | 0.59 | kg/hole | 0.31 | kg/hole | 0.018 | kg/hole | - | - | - | - | - | - | - | - | - |
| Blasting overburden (or coal) | 58660 | 30503 | 1760 | 0 | 60 | blasts/y | 973.3 | kg/blast | 506.1 | kg/blast | 29.2 | kg/blast | 26950 | - | - | - | - | - | - | - | - |
| Excavators loading overburden to trucks | 49364 | 23348 | 3536 | 0 | 32570769 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Hauling overburden from pit to dump | 552889 | 163383 | 16587 | 85 | 32570769 | t/y | 0.11317 | kg/t | 0.033442 | kg/t | 0.003 | kg/t | - | - | - | - | 4 | 240 | 7 | - | - |
| Unloading overburden to dump inc rejects | 49364 | 23348 | 3536 | 0 | 32570769 | t/y | 0.00152 | kg/t | 0.00072 | kg/t | 0.0001 | kg/t | - | 1.28 | 2 | - | - | - | - | - | - |
| Dozers shaping overburden | 436224 | 106197 | 45804 | 0 | 26066 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on overburden for rehabilitation | 46859 | 11408 | 4920 | 0 | 2800 | h/y | 16.7 | kg/h | 4.074149 | kg/h | 1.757 | kg/h | - | - | 2 | - | - | - | - | 10 | - |
| Dozers working on coal | 114770 | 33073 | 2525 | 0 | 8589 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Loading ROM coal to trucks | 273762 | 39371 | 5201 | 0 | 5723390 | t/y | 0.04783 | kg/t | 0.006879 | kg/t | 0.001 | kg/t | - | - | 8 | - | - | - | - | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (HVCPP) | 100747 | 29772 | 3022 | 85 | 1300000 | t/y | 0.51665 | kg/t | 0.152675 | kg/t | 0.015 | kg/t | - | - | - | - | 4 | 190 | 25.3 | - | - |
| Hauling ROM coal from pit to ROM pad (Howick CPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.00000 | kg/t | 0 | kg/t | 0.000 | kg/t | - | - | - | - | 4 | 190 | 0 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 85 | 0 | t/y | 0.38392 | kg/t | 0.11345 | kg/t | 0.012 | kg/t | - | - | - | - | 4 | 190 | 18.8 | - | - |
| Hauling ROM coal from pit to hopper / ROM pad (LCPP) | 127 | 38 | 4 | 85 | 5200 | t/y | 0.16337 | kg/t | 0.048277 | kg/t | 0.005 | kg/t | - | - | - | - | 4 | 190 | 8 | - | - |
| Unloading ROM coal to hopper / ROM pad (HVCPP) | 3900 | 1638 | 74 | 70 | 1300000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to ROM pad (Howick CPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (RCPP) | 0 | 0 | 0 | 70 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Unloading ROM coal to hopper / ROM pad (LCPP) | 16 | 7 | 0 | 70 | 5200 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (HVCPP) | 7800 | 3276 | 148 | 0 | 780000 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (Howick CPP) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (RCPP) (RSO) | 0 | 0 | 0 | 0 | 0 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| ROM coal rehandle to hopper (LCPP) | 31 | 13 | 1 | 0 | 3120 | t/y | 0.01 | kg/t | 0.0042 | kg/t | 0.000 | kg/t | - | - | - | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to HVCPP | 85 | 40 | 6 | 70 | 1300000 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to Howick CPP | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Transferring ROM coal by conveyor to LCPP | 0 | 0 | 0 | 70 | 5200 | t/y | 0.00022 | kg/t | 0.00010 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at HVCPP inc rejects | 424 | 201 | 6 | 70 | 1300000 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at Howick CPP inc rejects | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at RCPP (RSO) | 0 | 0 | 0 | 70 | 0 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Handling coal at LCPP inc rejects | 2 | 1 | 0 | 70 | 5200 | t/y | 0.00109 | kg/t | 0.00051 | kg/t | 0.0000 | kg/t | - | 1.28 | 8 | - | - | - | - | - | - |
| Dozers / loaders on ROM coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 13.4 | kg/h | 3.9 | kg/h | 0.294 | kg/h | - | - | 8 | - | - | - | - | 5 | - |
| Dozers on product coal stockpiles | 0 | 0 | 0 | 50 | 0 | h/y | 7.5 | kg/h | 2.0 | kg/h | 0.165 | kg/h | - | - | 10 | - | - | - | - | 4 | - |
| Conveyer to product stockpiles | 0 | 0 | 0 | 70 | 0 | t/y | 0.00016 | kg/t | 0.00008 | kg/t | 0.0000 | kg/t | - | 1.28 | 10 | - | - | - | - | - | - |
| Hauling product from Howick CPP to Newdell LP | 0 | 0 | 0 | 85 | 0 | t/y | 0.89538 | kg/t | 0.264594 | kg/t | 0.027 | kg/t | - | - | - | - | 4 | 65 | 15 | - | - |
| Loading product coal to trains | 0 | 0 | 0 | 0 | 0 | t/y | 0.00040 | kg/t | 0.00017 | kg/t | 0.0000 | kg/t | - | - | - | - | - | - | - | - | - |
| Wind erosion from active and inactive pits | 200337 | 100168 | 15025 | 0 | 229 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from active, inactive and shaped dumps | 583974 | 291987 | 43798 | 0 | 667 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from temporary stabilisation | 9321 | 4661 | 699 | 60 | 27 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from ROM coal stockpiles | 3487 | 1743 | 262 | 50 | 8 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Wind erosion from product coal stockpile | 3937 | 1968 | 295 | 50 | 9 | ha | 876.0 | kg/ha/y | 438.0 | kg/ha/y | 65.7 | kg/ha/y | - | - | - | - | - | - | - | - | - |
| Grading roads | 25318 | 8951 | 277 | 50 | 82274 | km | 0.61547 | kg/VKT | 0.2176 | kg/VKT | 0.007 | kg/VKT | - | - | - | - | - | - | - | - | 8 |
| Dragline(s) working on overburden | 0 | 0 | 0 | 0 | 0 | bcm/y | 0.03 | kg/bcm | 0.01 | kg/bcm | 0.002 | kg/bcm | - | - | 2 | 7 | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | | | | |
| Total | 2527939 | 878496 | 147682 | | | | | | | | | | | | | | | | | | |

Prodcution data from HVO

# Source allocations
# 2014 (HVO North)

```
  -----ACTIVITY SUMMARY-----
 ACTIVITY NAME : Stripping topsoil by scraper
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 7029 kg/y TSP  1769 kg/y PM10  351 kg/y PM2.5
 FROM SOURCES  : 4
6 7 8 9
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Drilling overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 8352 kg/y TSP  4343 kg/y PM10  251 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 21 22 23
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Blasting overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 77692 kg/y TSP  40400 kg/y PM10  2331 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 21 22 23
 HOURS OF DAY  :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

 ACTIVITY NAME : Excavators loading overburden to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 107454 kg/y TSP  50823 kg/y PM10  7696 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 21 22 23
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling overburden from pit to dump
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 1203508 kg/y TSP  355647 kg/y PM10  36105 kg/y
PM2.5
 FROM SOURCES  : 28
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading overburden to dump inc rejects
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 113380 kg/y TSP  53626 kg/y PM10  8120 kg/y PM2.5
 FROM SOURCES  : 14
24 25 26 27 28 29 30 31 32 33 34 35 36 37
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers shaping overburden
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 981792 kg/y TSP  239013 kg/y PM10  103088 kg/y
PM2.5
 FROM SOURCES  : 14
24 25 26 27 28 29 30 31 32 33 34 35 36 37
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on overburden for rehabilitation
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 36965 kg/y TSP  8999 kg/y PM10  3881 kg/y PM2.5
 FROM SOURCES  : 7
31 32 33 34 35 36 37
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on coal
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 231387 kg/y TSP  66678 kg/y PM10  5091 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 21 22 23
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Loading ROM coal to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 272165 kg/y TSP  39142 kg/y PM10  5171 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 21 22 23
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(HVCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 116922 kg/y TSP  34551 kg/y PM10  3508 kg/y PM2.5
 FROM SOURCES  : 18
1 10 11 12 13 14 15 16 17 18 19 20 21 22 23 38 39 40
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 83206 kg/y TSP  24588 kg/y PM10  2496 kg/y PM2.5
 FROM SOURCES  : 19
2 10 11 12 13 14 15 16 17 18 19 20 21 22 23 41 42 43 44
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(RCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 12686 kg/y TSP  3749 kg/y PM10  381 kg/y PM2.5
 FROM SOURCES  : 25
5 10 11 12 13 14 15 16 17 18 19 20 21 22 23 38 39 40 54 55 56 57 58
59 60
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(LCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 11685 kg/y TSP  4908 kg/y PM10  222 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 4794 kg/y TSP  2013 kg/y PM10  91 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 592 kg/y TSP  248 kg/y PM10  11 kg/y PM2.5
 FROM SOURCES  : 1
5
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 23370 kg/y TSP  9815 kg/y PM10  444 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 15978 kg/y TSP  6711 kg/y PM10  304 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
5
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 254 kg/y TSP  120 kg/y PM10  18 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 104 kg/y TSP  49 kg/y PM10  7 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
5
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
```

HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2341 kg/y TSP 1107 kg/y PM10 34 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 522 kg/y TSP 247 kg/y PM10 7 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
10 11 12 13 14 15 16 17 18 19 20 21 22 23

## Source allocations 2014 (HVO South)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 4244 kg/y TSP 1068 kg/y PM10 212 kg/y PM2.5
FROM SOURCES : 3
69 70 71
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 21304 kg/y TSP 11078 kg/y PM10 639 kg/y PM2.5
FROM SOURCES : 17
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 187753 kg/y TSP 97632 kg/y PM10 5633 kg/y PM2.5
FROM SOURCES : 17
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 232282 kg/y TSP 109863 kg/y PM10 16636 kg/y PM2.5
FROM SOURCES : 17
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2601608 kg/y TSP 768797 kg/y PM10 78048 kg/y PM2.5
FROM SOURCES : 29
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 232282 kg/y TSP 109863 kg/y PM10 16636 kg/y PM2.5
FROM SOURCES : 12
89 90 91 92 93 94 95 96 97 98 99 100
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1495765 kg/y TSP 364138 kg/y PM10 157055 kg/y PM2.5
FROM SOURCES : 12
89 90 91 92 93 94 95 96 97 98 99 100
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 63599 kg/y TSP 15483 kg/y PM10 6678 kg/y PM2.5
FROM SOURCES : 15
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 318074 kg/y TSP 91659 kg/y PM10 6998 kg/y PM2.5
FROM SOURCES : 17
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 588336 kg/y TSP 84612 kg/y PM10 11178 kg/y PM2.5
FROM SOURCES : 17
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 953224 kg/y TSP 281686 kg/y PM10 28597 kg/y PM2.5
FROM SOURCES : 26
1 38 62 63 64 65 66 67 68 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
5
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 36900 kg/y TSP 15498 kg/y PM10 701 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
5
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 73800 kg/y TSP 30996 kg/y PM10 1402 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
5
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive

```
 DUST EMISSION : 803 kg/y TSP  380 kg/y PM10  58 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
5
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HVCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 4015 kg/y TSP  1899 kg/y PM10  58 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 Pit retention sources:
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
```

## Source allocations 2025 (HVO North)

```
  -----ACTIVITY SUMMARY-----
 ACTIVITY NAME : Stripping topsoil by scraper
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 12950 kg/y TSP  3260 kg/y PM10  648 kg/y PM2.5
 FROM SOURCES  : 5
5 6 7 8 9
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Drilling overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 46442 kg/y TSP  24150 kg/y PM10  1393 kg/y PM2.5
 FROM SOURCES  : 11
10 11 12 13 14 15 16 17 18 19 20
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Blasting overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 333163 kg/y TSP  173245 kg/y PM10  9995 kg/y PM2.5
 FROM SOURCES  : 11
10 11 12 13 14 15 16 17 18 19 20
 HOURS OF DAY  :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0

 ACTIVITY NAME : Excavators loading overburden to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 226339 kg/y TSP  107052 kg/y PM10  16211 kg/y
PM2.5
 FROM SOURCES  : 11
10 11 12 13 14 15 16 17 18 19 20
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling overburden from pit to dump
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 2535052 kg/y TSP  749129 kg/y PM10  76052 kg/y
PM2.5
 FROM SOURCES  : 29
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading overburden to dump inc rejects
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 231492 kg/y TSP  109489 kg/y PM10  16580 kg/y
PM2.5
 FROM SOURCES  : 18
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers shaping overburden
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 1205202 kg/y TSP  293402 kg/y PM10  126546 kg/y
PM2.5
 FROM SOURCES  : 18
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on overburden for rehabilitation
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 46859 kg/y TSP  11408 kg/y PM10  4920 kg/y PM2.5
 FROM SOURCES  : 5
33 34 35 36 55
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on coal
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 227208 kg/y TSP  65474 kg/y PM10  4999 kg/y PM2.5
 FROM SOURCES  : 11
10 11 12 13 14 15 16 17 18 19 20
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Loading ROM coal to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 434094 kg/y TSP  62430 kg/y PM10  8248 kg/y PM2.5
 FROM SOURCES  : 11
10 11 12 13 14 15 16 17 18 19 20
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(HVCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 148217 kg/y TSP  43799 kg/y PM10  4447 kg/y PM2.5
 FROM SOURCES  : 14
10 11 12 13 14 15 16 17 18 19 20 39 40 41
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 105476 kg/y TSP  31169 kg/y PM10  3164 kg/y PM2.5
 FROM SOURCES  : 18
10 11 12 13 14 15 16 17 18 19 20 21 42 43 44 45 46 47
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(RCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 16082 kg/y TSP  4752 kg/y PM10  482 kg/y PM2.5
 FROM SOURCES  : 20
10 11 12 13 14 15 16 17 18 19 20 39 40 41 102 103 104 105 106 107
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(LCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 14812 kg/y TSP  6221 kg/y PM10  281 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 6077 kg/y TSP  2552 kg/y PM10  115 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 750 kg/y TSP  315 kg/y PM10  14 kg/y PM2.5
 FROM SOURCES  : 1
107
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 29625 kg/y TSP  12442 kg/y PM10  563 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
```

```
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 20255 kg/y TSP  8507 kg/y PM10  385 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
107
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 322 kg/y TSP  152 kg/y PM10  23 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 132 kg/y TSP  63 kg/y PM10  9 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
107
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HVCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 2527 kg/y TSP  1195 kg/y PM10  36 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 661 kg/y TSP  313 kg/y PM10  9 kg/y PM2.5
 FROM SOURCES  : 1
2
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 Pit retention sources:
10 11 12 13 14 15 16 17 18 19 20
```

## Source allocations 2025 (HVO South)

```
  -----ACTIVITY SUMMARY-----
 ACTIVITY NAME : Stripping topsoil by scraper
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Drilling overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 26837 kg/y TSP  13955 kg/y PM10  805 kg/y PM2.5
 FROM SOURCES  : 9
77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Blasting overburden (or coal)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 219419 kg/y TSP  114098 kg/y PM10  6583 kg/y PM2.5
 FROM SOURCES  : 9
77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

 ACTIVITY NAME : Excavators loading overburden to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 228393 kg/y TSP  108024 kg/y PM10  16358 kg/y
PM2.5
 FROM SOURCES  : 9
77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling overburden from pit to dump
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 2558052 kg/y TSP  755925 kg/y PM10  76742 kg/y
PM2.5
 FROM SOURCES  : 23
77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98
99
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading overburden to dump inc rejects
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 228393 kg/y TSP  108024 kg/y PM10  16358 kg/y
PM2.5
 FROM SOURCES  : 14
86 87 88 89 90 91 92 93 94 95 96 97 98 99
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers shaping overburden
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 1208199 kg/y TSP  294131 kg/y PM10  126861 kg/y
PM2.5
 FROM SOURCES  : 14
86 87 88 89 90 91 92 93 94 95 96 97 98 99
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on overburden for rehabilitation
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 46859 kg/y TSP  11408 kg/y PM10  4920 kg/y PM2.5
 FROM SOURCES  : 4
95 96 97 98
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Dozers working on coal
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 167453 kg/y TSP  48254 kg/y PM10  3684 kg/y PM2.5
 FROM SOURCES  : 9
77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Loading ROM coal to trucks
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 435394 kg/y TSP  62617 kg/y PM10  8272 kg/y PM2.5
 FROM SOURCES  : 9
77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(HVCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 702328 kg/y TSP  207544 kg/y PM10  21070 kg/y
PM2.5
 FROM SOURCES  : 17
39 58 59 60 61 62 63 64 77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 10
1 77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(RCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 10
1 77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(LCHPP)
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 10
1 77 78 79 80 81 82 83 84 85
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 27188 kg/y TSP  11419 kg/y PM10  517 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 54375 kg/y TSP 22838 kg/y PM10 1033 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 592 kg/y TSP 280 kg/y PM10 42 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2958 kg/y TSP 1399 kg/y PM10 42 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
77 78 79 80 81 82 83 84 85

## Source allocations 2029 (HVO North)

-----ACTIVITY SUMMARY-----

ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 16212 kg/y TSP 4081 kg/y PM10 811 kg/y PM2.5
FROM SOURCES : 4
5 6 7 8
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 66840 kg/y TSP 34757 kg/y PM10 2005 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 546229 kg/y TSP 284039 kg/y PM10 16387 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 376298 kg/y TSP 177979 kg/y PM10 26951 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 4214630 kg/y TSP 1245458 kg/y PM10 126439 kg/y PM2.5
FROM SOURCES : 25
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 58 59
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 385550 kg/y TSP 182355 kg/y PM10 27614 kg/y PM2.5
FROM SOURCES : 15
19 20 21 22 23 24 25 26 27 28 29 30 31 58 59
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2027713 kg/y TSP 493639 kg/y PM10 212910 kg/y PM2.5
FROM SOURCES : 15
19 20 21 22 23 24 25 26 27 28 29 30 31 58 59
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 4
32 33 34 35
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 406928 kg/y TSP 117263 kg/y PM10 8952 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1052308 kg/y TSP 151338 kg/y PM10 19994 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 347135 kg/y TSP 102581 kg/y PM10 10414 kg/y PM2.5
FROM SOURCES : 13
8 9 10 11 12 13 14 15 16 17 18 36 37
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 312442 kg/y TSP 92329 kg/y PM10 9373 kg/y PM2.5
FROM SOURCES : 16
9 10 11 12 13 14 15 16 17 18 45 46 47 48 49 50
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 271772 kg/y TSP 80311 kg/y PM10 8153 kg/y PM2.5

FROM SOURCES : 19
9 10 11 12 13 14 15 16 17 18 36 37 38 39 40 41 42 43 44
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 10
9 10 11 12 13 14 15 16 17 18
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 34692 kg/y TSP 14570 kg/y PM10 659 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 18000 kg/y TSP 7560 kg/y PM10 342 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 13308 kg/y TSP 5590 kg/y PM10 253 kg/y PM2.5
FROM SOURCES : 1
44
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 69383 kg/y TSP 29141 kg/y PM10 1318 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 60000 kg/y TSP 25200 kg/y PM10 1140 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
44
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 755 kg/y TSP 357 kg/y PM10 54 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 392 kg/y TSP 185 kg/y PM10 28 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
44
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 4989 kg/y TSP 2360 kg/y PM10 71 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1959 kg/y TSP 926 kg/y PM10 28 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
9 10 11 12 13 14 15 16 17 18

## Source allocations 2029 (HVO South)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1143 kg/y TSP 288 kg/y PM10 57 kg/y PM2.5
FROM SOURCES : 1
67
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 24892 kg/y TSP 12944 kg/y PM10 747 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 182916 kg/y TSP 95116 kg/y PM10 5487 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 219641 kg/y TSP 103884 kg/y PM10 15731 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2460031 kg/y TSP 726959 kg/y PM10 73801 kg/y PM2.5
FROM SOURCES : 18
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 219641 kg/y TSP 103884 kg/y PM10 15731 kg/y PM2.5
FROM SOURCES : 11
73 74 75 76 77 78 79 80 81 82 83
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1232292 kg/y TSP 299996 kg/y PM10 129391 kg/y PM2.5
FROM SOURCES : 11
73 74 75 76 77 78 79 80 81 82 83
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 11
76 77 78 92 93 94 95 96 97 98 99
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 175333 kg/y TSP 50525 kg/y PM10 3857 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 416623 kg/y TSP 59917 kg/y PM10 7916 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85

HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 653783 kg/y TSP 193198 kg/y PM10 19613 kg/y PM2.5
FROM SOURCES : 15
37 60 61 62 63 64 65 66 68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 7
68 69 70 71 72 84 85
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 25308 kg/y TSP 10630 kg/y PM10 481 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 50617 kg/y TSP 21259 kg/y PM10 962 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 551 kg/y TSP 260 kg/y PM10 39 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2754 kg/y TSP 1302 kg/y PM10 39 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
68 69 70 71 72 73 74

## Source allocations 2033 (HVO North)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 10558 kg/y TSP 2658 kg/y PM10 528 kg/y PM2.5
FROM SOURCES : 5
5 6 7 8 9
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 65002 kg/y TSP 33801 kg/y PM10 1950 kg/y PM2.5
FROM SOURCES : 8
10 11 12 13 14 15 16 17
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 552841 kg/y TSP 287477 kg/y PM10 16585 kg/y PM2.5
FROM SOURCES : 8
10 11 12 13 14 15 16 17
HOURS OF DAY :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 407385 kg/y TSP 192682 kg/y PM10 29178 kg/y PM2.5
FROM SOURCES : 8
10 11 12 13 14 15 16 17
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 4562811 kg/y TSP 1348348 kg/y PM10 136884 kg/y PM2.5
FROM SOURCES : 21
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 416364 kg/y TSP 196929 kg/y PM10 29821 kg/y PM2.5
FROM SOURCES : 13
18 19 20 21 22 23 24 25 26 27 28 29 30
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2141260 kg/y TSP 521281 kg/y PM10 224832 kg/y PM2.5

FROM SOURCES  : 13
18 19 20 21 22 23 24 25 26 27 28 29 30
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP  11408 kg/y PM10  4920 kg/y PM2.5
FROM SOURCES  : 8
31 32 33 104 105 106 107 108
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 342006 kg/y TSP  98555 kg/y PM10  7524 kg/y PM2.5
FROM SOURCES  : 8
10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1052308 kg/y TSP  151338 kg/y PM10  19994 kg/y PM2.5
FROM SOURCES  : 8
10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 369298 kg/y TSP  109131 kg/y PM10  11079 kg/y PM2.5
FROM SOURCES  : 10
10 11 12 13 14 15 16 17 34 35
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 319794 kg/y TSP  94502 kg/y PM10  9594 kg/y PM2.5
FROM SOURCES  : 17
10 11 12 13 14 15 16 17 31 43 44 45 46 47 48 49 50
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 222011 kg/y TSP  65606 kg/y PM10  6660 kg/y PM2.5
FROM SOURCES  : 16
10 11 12 13 14 15 16 17 34 35 36 37 38 39 40 41
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 36906 kg/y TSP  15501 kg/y PM10  701 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 18000 kg/y TSP  7560 kg/y PM10  342 kg/y PM2.5
FROM SOURCES  : 1
2
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 11094 kg/y TSP  4659 kg/y PM10  211 kg/y PM2.5
FROM SOURCES  : 1
41
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 73813 kg/y TSP  31001 kg/y PM10  1402 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 60000 kg/y TSP  25200 kg/y PM10  1140 kg/y PM2.5
FROM SOURCES  : 1
2
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
41
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 803 kg/y TSP  380 kg/y PM10  58 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 392 kg/y TSP  185 kg/y PM10  28 kg/y PM2.5
FROM SOURCES  : 1
2
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
41
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 5272 kg/y TSP  2493 kg/y PM10  76 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1959 kg/y TSP  926 kg/y PM10  28 kg/y PM2.5
FROM SOURCES  : 1
2
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
10 11 12 13 14 15 16 17

## Source allocations 2033 (HVO South)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 3939 kg/y TSP  991 kg/y PM10  197 kg/y PM2.5
FROM SOURCES  : 3
65 66 67
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 22870 kg/y TSP  11892 kg/y PM10  686 kg/y PM2.5
FROM SOURCES  : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 176668 kg/y TSP  91868 kg/y PM10  5300 kg/y PM2.5
FROM SOURCES  : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY  :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 227732 kg/y TSP  107711 kg/y PM10  16311 kg/y PM2.5
FROM SOURCES  : 10

65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2550652 kg/y TSP 753739 kg/y PM10 76520 kg/y PM2.5
FROM SOURCES : 23
65 66 67 68 69 70 71 72 73 74 80 81 82 83 84 85 86 87 88 89 90 91 92
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 227732 kg/y TSP 107711 kg/y PM10 16311 kg/y PM2.5
FROM SOURCES : 13
80 81 82 83 84 85 86 87 88 89 90 91 92
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1284996 kg/y TSP 312827 kg/y PM10 134925 kg/y PM2.5
FROM SOURCES : 13
80 81 82 83 84 85 86 87 88 89 90 91 92
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 6
93 94 95 97 98 99
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 228437 kg/y TSP 65828 kg/y PM10 5026 kg/y PM2.5
FROM SOURCES : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 420820 kg/y TSP 60521 kg/y PM10 7996 kg/y PM2.5
FROM SOURCES : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 596567 kg/y TSP 176290 kg/y PM10 17897 kg/y PM2.5
FROM SOURCES : 18
35 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 10
65 66 67 68 69 70 71 72 73 74
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 23094 kg/y TSP 9699 kg/y PM10 439 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 46187 kg/y TSP 19399 kg/y PM10 878 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 503 kg/y TSP 238 kg/y PM10 36 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2513 kg/y TSP 1188 kg/y PM10 36 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
68 69 70 71 72 73 74

## Source allocations 2040 (HVO North)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 16029 kg/y TSP 4035 kg/y PM10 801 kg/y PM2.5

FROM SOURCES : 4
5 6 7 8
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 58213 kg/y TSP 30271 kg/y PM10 1746 kg/y PM2.5
FROM SOURCES : 8
13 14 15 16 17 18 19 20
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 506326 kg/y TSP 263290 kg/y PM10 15190 kg/y PM2.5
FROM SOURCES : 8
13 14 15 16 17 18 19 20
HOURS OF DAY :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 451299 kg/y TSP 213452 kg/y PM10 32323 kg/y PM2.5
FROM SOURCES : 8
13 14 15 16 17 18 19 20
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 5054660 kg/y TSP 1493694 kg/y PM10 151640 kg/y PM2.5
FROM SOURCES : 21
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 463067 kg/y TSP 219018 kg/y PM10 33166 kg/y PM2.5
FROM SOURCES : 13
21 22 23 24 25 26 27 28 29 30 31 32 33
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2178975 kg/y TSP 530463 kg/y PM10 228792 kg/y PM2.5
FROM SOURCES : 13
21 22 23 24 25 26 27 28 29 30 31 32 33
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 7
34 35 36 37 38 39 40
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 348044 kg/y TSP 100295 kg/y PM10 7657 kg/y PM2.5
FROM SOURCES : 8
13 14 15 16 17 18 19 20
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 970962 kg/y TSP 139640 kg/y PM10 18448 kg/y PM2.5
FROM SOURCES : 8
13 14 15 16 17 18 19 20
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 493250 kg/y TSP 145759 kg/y PM10 14797 kg/y PM2.5
FROM SOURCES : 9
1 13 14 15 16 17 18 19 20
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 300218 kg/y TSP 88717 kg/y PM10 9007 kg/y PM2.5
FROM SOURCES : 19
13 14 15 16 17 18 19 20 21 30 31 48 49 50 51 52 53 54 55
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 16
1 13 14 15 16 17 18 19 20 41 42 43 44 45 46 47
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 49294 kg/y TSP 20703 kg/y PM10 937 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 16706 kg/y TSP 7017 kg/y PM10 317 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
47
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 98588 kg/y TSP 41407 kg/y PM10 1873 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 55687 kg/y TSP 23389 kg/y PM10 1058 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
47
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1073 kg/y TSP 507 kg/y PM10 77 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 364 kg/y TSP 172 kg/y PM10 26 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
47
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 6677 kg/y TSP 3158 kg/y PM10 96 kg/y PM2.5

FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1818 kg/y TSP 860 kg/y PM10 26 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
13 14 15 16 17 18 19 20

## Source allocations 2040 (HVO South)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 40561 kg/y TSP 21092 kg/y PM10 1217 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 319260 kg/y TSP 166015 kg/y PM10 9578 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 219022 kg/y TSP 103592 kg/y PM10 15687 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2453100 kg/y TSP 724911 kg/y PM10 73593 kg/y PM2.5
FROM SOURCES : 20
69 70 71 72 73 74 75 76 77 81 82 83 84 85 89 90 91 92 93 94
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 219022 kg/y TSP 103592 kg/y PM10 15687 kg/y PM2.5
FROM SOURCES : 11
81 82 83 84 85 89 90 91 92 93 94
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1235293 kg/y TSP 300727 kg/y PM10 129706 kg/y PM2.5
FROM SOURCES : 11
81 82 83 84 85 89 90 91 92 93 94
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 5
79 80 86 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 290245 kg/y TSP 83639 kg/y PM10 6385 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 859244 kg/y TSP 123573 kg/y PM10 16326 kg/y PM2.5
FROM SOURCES : 9
69 70 71 72 73 74 75 76 77
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 276568 kg/y TSP 81728 kg/y PM10 8297 kg/y PM2.5
FROM SOURCES : 19
1 8 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 81 92
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 350 kg/y TSP 103 kg/y PM10 10 kg/y PM2.5
FROM SOURCES : 15
69 70 71 72 73 74 75 76 77 78 79 80 97 98 99
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 10706 kg/y TSP 4497 kg/y PM10 203 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 43 kg/y TSP 18 kg/y PM10 1 kg/y PM2.5
FROM SOURCES : 1
99
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 21412 kg/y TSP 8993 kg/y PM10 407 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 86 kg/y TSP 36 kg/y PM10 2 kg/y PM2.5
FROM SOURCES : 1
99
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 233 kg/y TSP 110 kg/y PM10 17 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive

DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
99
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1165 kg/y TSP  551 kg/y PM10  17 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
69 70 71 72 73 74 75 76 77

## Source allocations
## 2044 (HVO North)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 69597 kg/y TSP  36191 kg/y PM10  2088 kg/y PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 603025 kg/y TSP  313573 kg/y PM10  18091 kg/y
PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 443030 kg/y TSP  209541 kg/y PM10  31730 kg/y
PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 4962036 kg/y TSP  1466323 kg/y PM10  148861 kg/y
PM2.5
FROM SOURCES  : 25
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
29
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 451607 kg/y TSP  213598 kg/y PM10  32345 kg/y
PM2.5
FROM SOURCES  : 12
18 19 20 21 22 23 24 25 26 27 28 29
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 2344071 kg/y TSP  570655 kg/y PM10  246128 kg/y
PM2.5
FROM SOURCES  : 12
18 19 20 21 22 23 24 25 26 27 28 29
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP  11408 kg/y PM10  4920 kg/y PM2.5
FROM SOURCES  : 8
30 31 32 33 34 35 36 37
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 351144 kg/y TSP  101188 kg/y PM10  7725 kg/y PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1052308 kg/y TSP  151338 kg/y PM10  19994 kg/y
PM2.5
FROM SOURCES  : 13
5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 528333 kg/y TSP  156127 kg/y PM10  15850 kg/y
PM2.5
FROM SOURCES  : 14
1 5 6 7 8 9 10 11 12 13 14 15 16 17
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 231820 kg/y TSP  68505 kg/y PM10  6955 kg/y PM2.5
FROM SOURCES  : 25
5 6 7 8 9 10 11 12 13 14 15 16 17 21 22 29 43 44 45 46 47 48 49 50
51
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad
(LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 52800 kg/y TSP  22176 kg/y PM10  1003 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 13200 kg/y TSP  5544 kg/y PM10  251 kg/y PM2.5
FROM SOURCES  : 1
2
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 105600 kg/y TSP  44352 kg/y PM10  2006 kg/y PM2.5
FROM SOURCES  : 1
1
HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 44000 kg/y TSP  18480 kg/y PM10  836 kg/y PM2.5
FROM SOURCES  : 1
2

HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 1149 kg/y TSP 543 kg/y PM10 82 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 287 kg/y TSP 136 kg/y PM10 21 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HVCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 6994 kg/y TSP 3308 kg/y PM10 100 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Handling coal at HCHPP inc rejects
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 1436 kg/y TSP 679 kg/y PM10 21 kg/y PM2.5
FROM SOURCES : 1
2
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pit retention sources:
5 6 7 8 9 10 11 12 13 14 15 16 17

## Source allocations 2044 (HVO South)

-----ACTIVITY SUMMARY-----
ACTIVITY NAME : Stripping topsoil by scraper
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Drilling overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 6541 kg/y TSP 3401 kg/y PM10 196 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Blasting overburden (or coal)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 58660 kg/y TSP 30503 kg/y PM10 1760 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0

ACTIVITY NAME : Excavators loading overburden to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 49364 kg/y TSP 23348 kg/y PM10 3536 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling overburden from pit to dump
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 552889 kg/y TSP 163383 kg/y PM10 16587 kg/y PM2.5
FROM SOURCES : 17
58 59 60 61 62 63 64 67 68 69 70 71 72 73 74 75 76
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading overburden to dump inc rejects
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 49364 kg/y TSP 23348 kg/y PM10 3536 kg/y PM2.5
FROM SOURCES : 10
67 68 69 70 71 72 73 74 75 76
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers shaping overburden
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 436224 kg/y TSP 106197 kg/y PM10 45804 kg/y PM2.5
FROM SOURCES : 10
67 68 69 70 71 72 73 74 75 76
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on overburden for rehabilitation
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 46859 kg/y TSP 11408 kg/y PM10 4920 kg/y PM2.5
FROM SOURCES : 7
65 66 77 78 79 87 88
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Dozers working on coal
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 114770 kg/y TSP 33073 kg/y PM10 2525 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Loading ROM coal to trucks
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 273762 kg/y TSP 39371 kg/y PM10 5201 kg/y PM2.5
FROM SOURCES : 7
58 59 60 61 62 63 64
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 100747 kg/y TSP 29772 kg/y PM10 3022 kg/y PM2.5
FROM SOURCES : 20
1 5 6 7 8 9 10 39 40 41 42 58 59 60 61 62 63 64 68 69
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to ROM pad (HCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Hauling ROM coal from pit to hopper / ROM pad (LCHPP)
ACTIVITY TYPE : Wind insensitive
DUST EMISSION : 127 kg/y TSP 38 kg/y PM10 4 kg/y PM2.5
FROM SOURCES : 12
58 59 60 61 62 63 64 65 66 82 83 84
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (HVCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 3900 kg/y TSP 1638 kg/y PM10 74 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to ROM pad (HCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (RCHPP)
ACTIVITY TYPE : Wind sensitive
DUST EMISSION : 0 kg/y TSP 0 kg/y PM10 0 kg/y PM2.5
FROM SOURCES : 1
1
HOURS OF DAY :

```
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Unloading ROM coal to hopper / ROM pad (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 16 kg/y TSP  7 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
84
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HVCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 7800 kg/y TSP  3276 kg/y PM10  148 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (HCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (RCHPP) (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : ROM coal rehandle to hopper (LCHPP)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 31 kg/y TSP  13 kg/y PM10  1 kg/y PM2.5
 FROM SOURCES  : 1
84
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HVCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 85 kg/y TSP  40 kg/y PM10  6 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to HCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to RCHPP (RSO)
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Transferring ROM coal by conveyor to LCHPP
 ACTIVITY TYPE : Wind sensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
84
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HVCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 424 kg/y TSP  201 kg/y PM10  6 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 ACTIVITY NAME : Handling coal at HCHPP inc rejects
 ACTIVITY TYPE : Wind insensitive
 DUST EMISSION : 0 kg/y TSP  0 kg/y PM10  0 kg/y PM2.5
 FROM SOURCES  : 1
1
 HOURS OF DAY  :
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

 Pit retention sources:
58 59 60 61 62 63 64
```

# Appendix E. Model performance evaluations

This section provides information on the performance of the model for predicting measured $PM_{10}$ concentrations. The performance evaluation has been carried out by modelling $PM_{10}$ concentrations for the 2014 calendar year (based on mining and activities in 2014) and comparing these results to measurement data.

**Figure E1** shows quantile-quantile plots of measured and modelled 24-hour average $PM_{10}$ concentrations at Jerrys Plains, Maison Dieu and Warkworth. These plots show the measured data and model results paired by highest to lowest, and not matched in time. Dispersion models often encounter difficulties when trying to reproduce monitoring results for a single point, especially for the extreme statistics such as the maximum 24-hour average. The most significant factor is the limitation of using computers to model large, complex systems (this would be the case even if all the physics were perfectly correct). In addition, there are often extraordinary events that could not be anticipated. The quantile-quantile plots in **Figure E1** do however show that the model results are well within a factor of two for all percentiles.

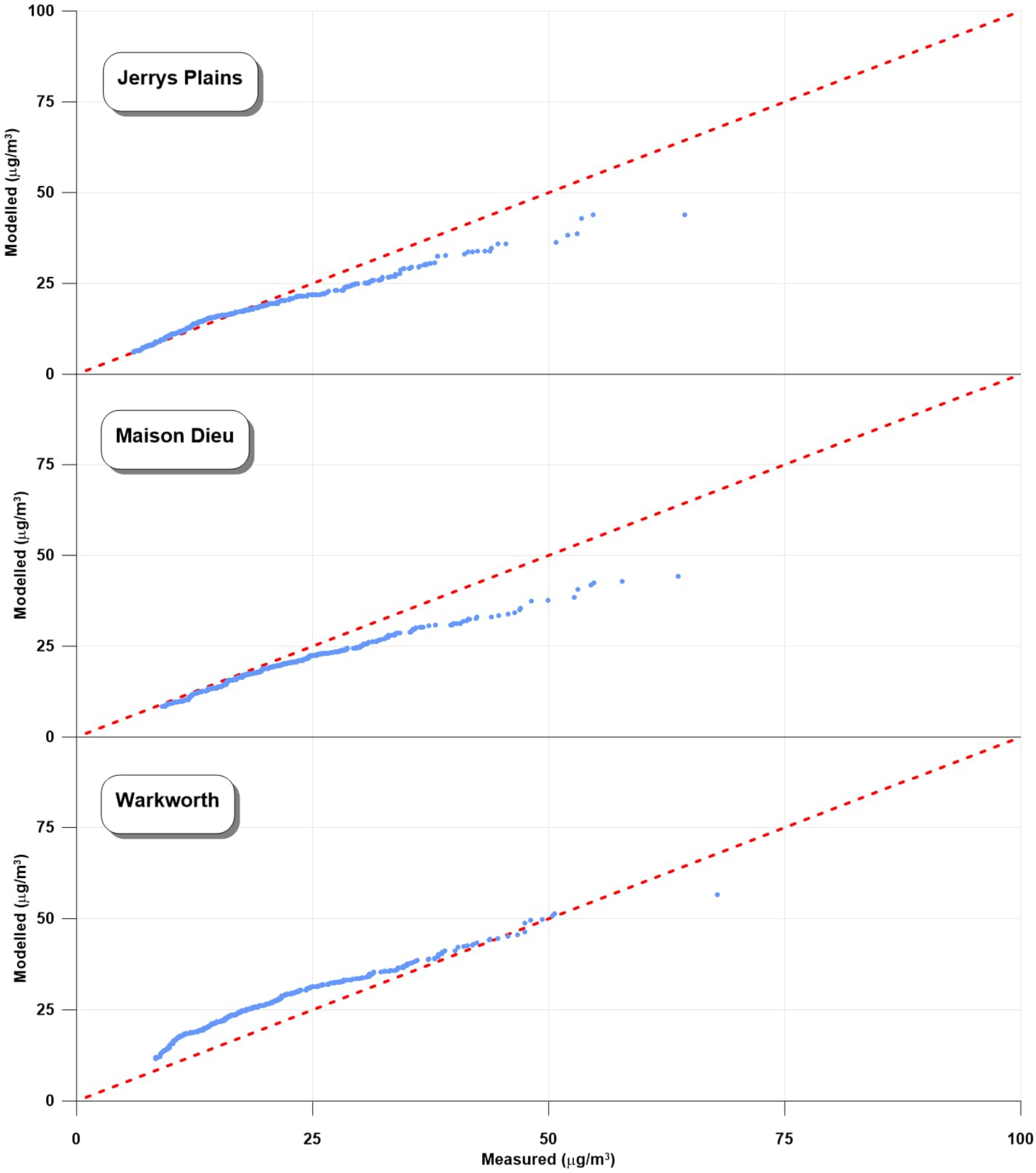


Figure E1 Quantile-quantile plots of measured and modelled 24-hour average $PM_{10}$ concentrations

**Figure E2** shows a comparison of measured and modelled $PM_{10}$ concentrations by wind direction. The model has reproduced similar $PM_{10}$ concentration patterns to the measured data from each location, with some differences in magnitudes depending on the direction. At most the differences range from approximately 36 per cent lower to 66 per cent higher and are well within a factor of two for all wind directions.

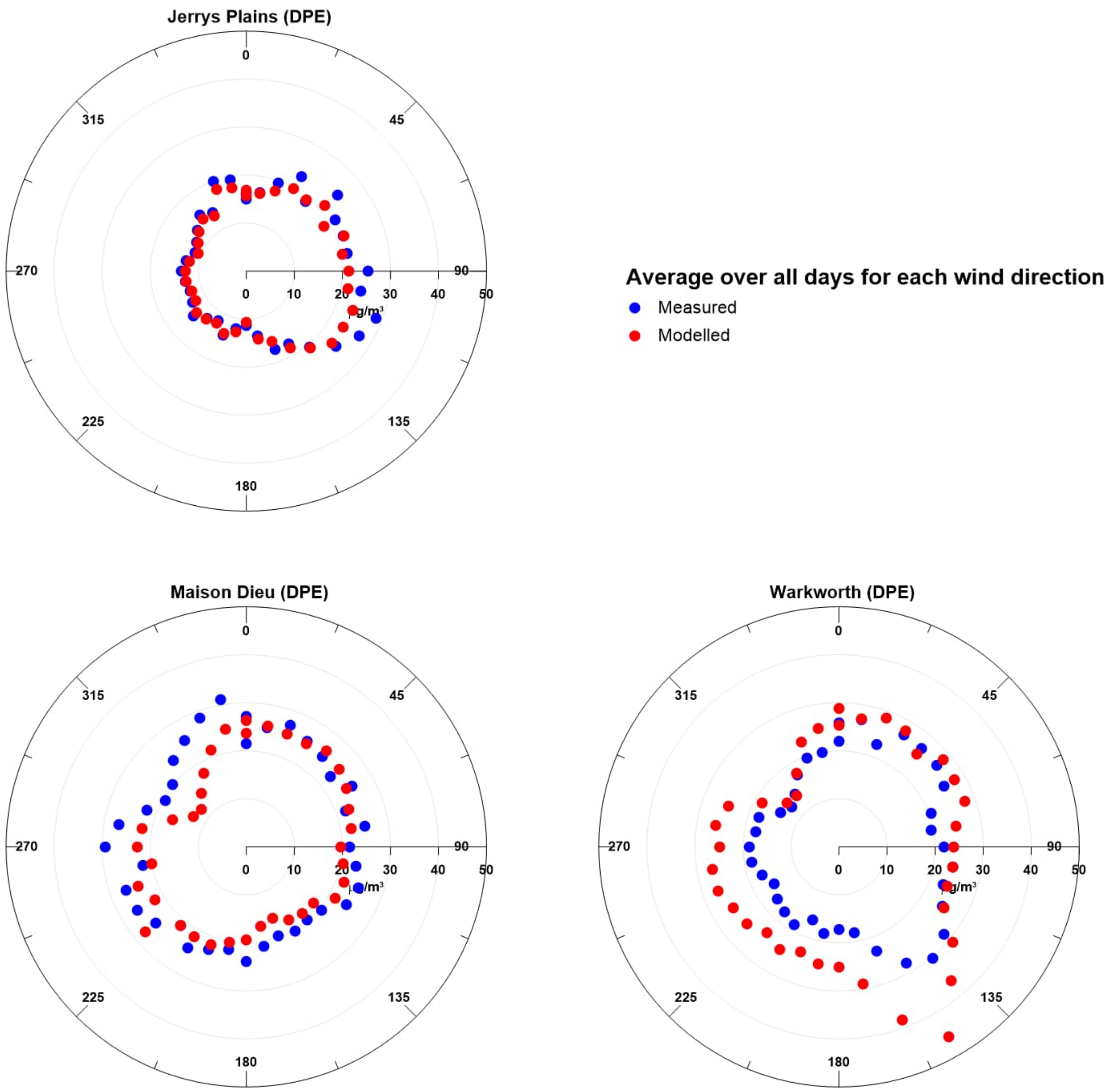


Figure E2 Comparison of measured and modelled $PM_{10}$ concentrations by wind direction

**Figure E3** shows a comparison of measured and modelled $PM_{10}$ concentrations by hour of day. The model has reproduced similar $PM_{10}$ concentration patterns to the measured data from each location, including the morning and afternoon peaks. There is a clear over-prediction at Warkworth during night-time hours.

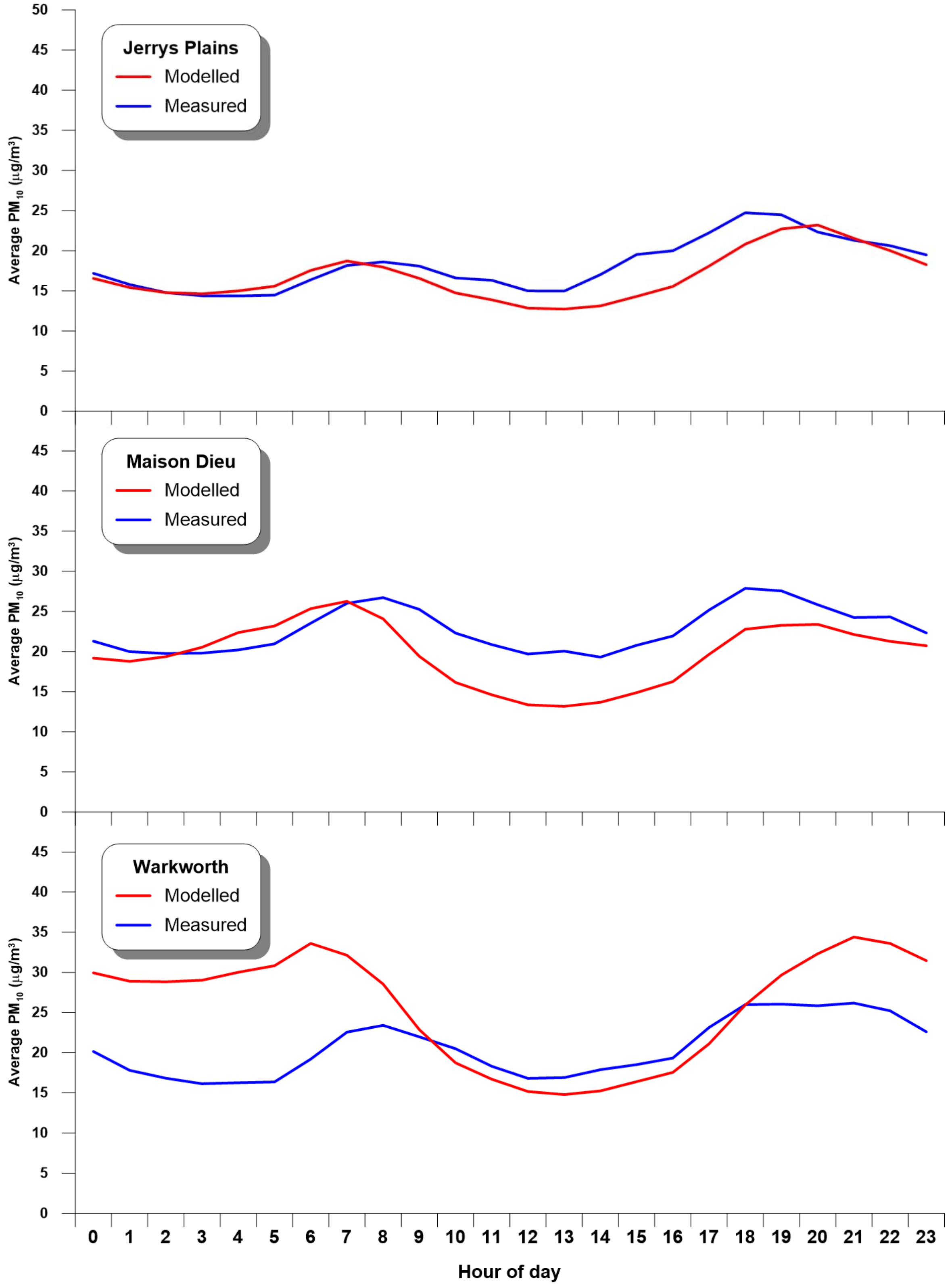


Figure E3 Comparison of measured and modelled $PM_{10}$ concentrations by hour of day

# Appendix F. Tabulated model results

**Modelled maximum 24-hour average PM10 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 2 | 4 | 10 | 13 | 23 | 25 | 13 | 11 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 17 | 28 | 28 | 47 | 46 | 48 | 52 | 58 | 51 | 50 |
| DL14 | Monitor | - | - | 3 | 7 | 15 | 18 | 23 | 29 | 23 | 25 | 14 | 12 | 10 | 3 | 23 | 25 | 16 | 19 | 24 | 29 | 44 | 45 | 46 | 46 | 45 | 41 | 50 |
| Warkworth | Monitor | - | - | 1 | 2 | 3 | 4 | 6 | 7 | 21 | 15 | 18 | 28 | 29 | 10 | 21 | 16 | 20 | 31 | 32 | 13 | 53 | 103 | 83 | 67 | 56 | 42 | 50 |
| D118 | Monitor | - | - | 2 | 5 | 9 | 11 | 13 | 11 | 23 | 15 | 16 | 16 | 23 | 7 | 23 | 16 | 18 | 18 | 26 | 16 | 50 | 54 | 53 | 58 | 54 | 46 | 50 |
| Knodlers Lane | Monitor | - | - | 3 | 6 | 12 | 15 | 18 | 22 | 27 | 26 | 23 | 19 | 16 | 3 | 27 | 26 | 23 | 19 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| DL22 | Monitor | - | - | 2 | 4 | 8 | 10 | 15 | 18 | 31 | 36 | 29 | 24 | 18 | 4 | 32 | 38 | 33 | 29 | 25 | 18 | 45 | 48 | 45 | 45 | 43 | 41 | 50 |
| DL21 | Monitor | - | - | 3 | 6 | 12 | 16 | 21 | 25 | 33 | 30 | 23 | 18 | 15 | 3 | 33 | 30 | 23 | 18 | 23 | 26 | 43 | 44 | 45 | 46 | 44 | 41 | 50 |
| D122 | Monitor | - | - | 2 | 5 | 9 | 10 | 10 | 12 | 12 | 13 | 12 | 10 | 10 | 2 | 13 | 15 | 15 | 15 | 16 | 12 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| DL30 | Monitor | - | - | 1 | 3 | 5 | 7 | 11 | 12 | 43 | 52 | 54 | 56 | 45 | 12 | 44 | 54 | 57 | 61 | 53 | 20 | 61 | 81 | 80 | 74 | 64 | 42 | 50 |
| DL2 | Monitor | - | - | 6 | 14 | 28 | 36 | 41 | 60 | 33 | 40 | 25 | 18 | 13 | 3 | 34 | 42 | 30 | 38 | 43 | 61 | 53 | 61 | 61 | 60 | 69 | 69 | 50 |
| Warkworth | Monitor | - | - | 1 | 2 | 3 | 4 | 6 | 7 | 21 | 15 | 18 | 28 | 29 | 10 | 21 | 16 | 20 | 31 | 32 | 13 | 53 | 103 | 83 | 67 | 56 | 42 | 50 |
| Cheshunt East | Monitor | - | - | 8 | 18 | 34 | 38 | 40 | 55 | 21 | 24 | 17 | 13 | 10 | 2 | 22 | 27 | 37 | 41 | 42 | 56 | 62 | 68 | 77 | 83 | 85 | 69 | 50 |
| Long Point | Monitor | - | - | 2 | 4 | 8 | 10 | 11 | 12 | 15 | 15 | 14 | 13 | 12 | 3 | 16 | 17 | 18 | 18 | 18 | 13 | 41 | 42 | 42 | 43 | 41 | 41 | 50 |
| Kilburnie South | Monitor | - | - | 2 | 5 | 9 | 11 | 13 | 12 | 23 | 15 | 16 | 16 | 23 | 7 | 23 | 16 | 18 | 18 | 26 | 16 | 50 | 55 | 53 | 58 | 54 | 46 | 50 |
| Wandewoi | Monitor | - | - | 7 | 18 | 39 | 54 | 58 | 88 | 52 | 29 | 33 | 37 | 69 | 23 | 52 | 29 | 40 | 54 | 77 | 95 | 66 | 53 | 63 | 72 | 93 | 110 | 50 |
| Howick | Monitor | - | - | 55 | 84 | 107 | 77 | 49 | 48 | 10 | 9 | 9 | 9 | 9 | 2 | 62 | 92 | 113 | 85 | 56 | 51 | 121 | 141 | 154 | 117 | 108 | 62 | 50 |
| Golden Highway | Monitor | - | - | 1 | 1 | 3 | 3 | 5 | 5 | 13 | 11 | 14 | 15 | 15 | 4 | 14 | 12 | 17 | 18 | 19 | 9 | 101 | 155 | 155 | 155 | 43 | 41 | 50 |
| HC1 Conveyor | Monitor | - | - | 67 | 263 | 288 | 400 | 137 | 135 | 26 | 28 | 23 | 21 | 17 | 4 | 68 | 270 | 289 | 406 | 143 | 137 | 94 | 330 | 382 | 523 | 253 | 157 | 50 |
| Maison Dieu | Monitor | - | - | 3 | 7 | 15 | 18 | 23 | 29 | 24 | 25 | 14 | 12 | 10 | 3 | 24 | 25 | 16 | 19 | 24 | 29 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| Warkworth | Monitor | - | - | 1 | 1 | 3 | 4 | 5 | 5 | 17 | 10 | 15 | 22 | 23 | 8 | 18 | 12 | 17 | 24 | 26 | 11 | 57 | 65 | 65 | 65 | 49 | 41 | 50 |
| Knodlers Lane | Monitor | - | - | 2 | 5 | 9 | 12 | 18 | 21 | 30 | 32 | 23 | 23 | 19 | 4 | 30 | 34 | 27 | 23 | 22 | 22 | 45 | 46 | 45 | 45 | 44 | 41 | 50 |
| Jerrys Plains | Monitor | - | - | 2 | 5 | 10 | 13 | 20 | 19 | 8 | 6 | 6 | 6 | 8 | 2 | 8 | 7 | 12 | 17 | 23 | 20 | 44 | 44 | 46 | 46 | 47 | 44 | 50 |
| Cheshunt East | Monitor | - | - | 8 | 18 | 34 | 38 | 40 | 55 | 21 | 24 | 17 | 13 | 10 | 2 | 22 | 27 | 37 | 41 | 42 | 56 | 62 | 68 | 77 | 83 | 85 | 69 | 50 |
| HVGC | Monitor | - | - | 1 | 3 | 6 | 7 | 9 | 12 | 54 | 58 | 62 | 58 | 65 | 21 | 55 | 61 | 67 | 64 | 72 | 28 | 74 | 94 | 100 | 89 | 85 | 44 | 50 |
| Long Point | Monitor | - | - | 2 | 4 | 8 | 10 | 11 | 12 | 15 | 15 | 14 | 13 | 12 | 3 | 16 | 17 | 18 | 18 | 18 | 13 | 41 | 42 | 42 | 43 | 41 | 41 | 50 |
| Kilburnie South | Monitor | - | - | 2 | 5 | 9 | 11 | 13 | 12 | 23 | 15 | 16 | 16 | 23 | 7 | 23 | 16 | 18 | 18 | 26 | 16 | 50 | 55 | 53 | 58 | 54 | 46 | 50 |
| Kilburnie South | Monitor | - | - | 2 | 5 | 9 | 11 | 13 | 11 | 23 | 15 | 16 | 16 | 23 | 7 | 23 | 16 | 18 | 18 | 26 | 16 | 50 | 54 | 53 | 58 | 54 | 46 | 50 |
| Maison Dieu | Monitor | - | - | 3 | 7 | 15 | 18 | 23 | 28 | 25 | 25 | 15 | 12 | 10 | 3 | 25 | 25 | 16 | 19 | 24 | 29 | 44 | 46 | 47 | 47 | 45 | 41 | 50 |
| Maison Dieu | Monitor | - | - | 3 | 7 | 15 | 18 | 23 | 29 | 24 | 25 | 14 | 12 | 10 | 3 | 24 | 25 | 16 | 19 | 24 | 29 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| Knodlers Lane | Monitor | - | - | 3 | 6 | 12 | 15 | 18 | 22 | 27 | 26 | 23 | 19 | 16 | 3 | 27 | 26 | 23 | 19 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| 17 | Private - Dwelling | - | - | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 43 | 43 | 43 | 43 | 41 | 41 | 50 |
| 19 | Private - Dwelling | - | - | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 43 | 43 | 43 | 43 | 41 | 41 | 50 |
| 37 | Private - Dwelling | - | - | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 43 | 43 | 43 | 43 | 41 | 41 | 50 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 1 | 2 | 3 | 4 | 5 | 6 | 18 | 11 | 16 | 23 | 24 | 8 | 18 | 12 | 18 | 25 | 27 | 11 | 56 | 66 | 65 | 65 | 50 | 41 | 50 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 3 | 6 | 12 | 15 | 18 | 22 | 28 | 26 | 23 | 19 | 16 | 3 | 28 | 26 | 23 | 19 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 2 | 5 | 11 | 14 | 18 | 22 | 23 | 23 | 23 | 21 | 17 | 4 | 23 | 23 | 23 | 21 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 3 | 6 | 13 | 16 | 18 | 22 | 28 | 26 | 23 | 18 | 15 | 3 | 28 | 26 | 23 | 18 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 2 | 5 | 12 | 15 | 18 | 22 | 25 | 24 | 23 | 20 | 16 | 4 | 25 | 24 | 23 | 20 | 20 | 22 | 43 | 44 | 45 | 45 | 44 | 41 | 50 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 3 | 6 | 13 | 16 | 18 | 22 | 28 | 26 | 22 | 18 | 15 | 3 | 28 | 26 | 22 | 18 | 20 | 22 | 43 | 45 | 46 | 45 | 44 | 41 | 50 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 1 | 2 | 5 | 6 | 7 | 7 | 12 | 12 | 12 | 13 | 13 | 4 | 13 | 14 | 17 | 18 | 18 | 10 | 43 | 46 | 44 | 44 | 42 | 41 | 50 |
| 127 | Private - Dwelling | - | - | 3 | 6 | 12 | 14 | 14 | 16 | 15 | 16 | 15 | 15 | 12 | 3 | 15 | 17 | 16 | 16 | 18 | 17 | 44 | 44 | 45 | 45 | 43 | 41 | 50 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 1 | 3 | 7 | 8 | 9 | 10 | 15 | 14 | 15 | 15 | 15 | 4 | 16 | 17 | 18 | 18 | 20 | 12 | 42 | 43 | 44 | 44 | 41 | 41 | 50 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 2 | 4 | 8 | 9 | 10 | 12 | 16 | 15 | 15 | 14 | 13 | 3 | 16 | 17 | 19 | 18 | 19 | 13 | 41 | 42 | 43 | 43 | 41 | 41 | 50 |
| 134 | Private - Dwelling | - | - | 2 | 4 | 8 | 9 | 11 | 12 | 15 | 15 | 15 | 13 | 12 | 3 | 16 | 17 | 18 | 18 | 19 | 13 | 41 | 42 | 42 | 42 | 41 | 41 | 50 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 2 | 4 | 8 | 9 | 10 | 11 | 14 | 14 | 14 | 13 | 12 | 3 | 15 | 16 | 17 | 17 | 18 | 12 | 41 | 42 | 42 | 42 | 41 | 41 | 50 |
| 141 | Private - Dwelling | - | - | 3 | 7 | 12 | 13 | 13 | 15 | 14 | 13 | 13 | 13 | 10 | 3 | 14 | 13 | 13 | 14 | 16 | 15 | 41 | 42 | 43 | 43 | 41 | 41 | 50 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 6 | 13 | 17 | 22 | 26 | 32 | 30 | 21 | 16 | 13 | 3 | 32 | 30 | 21 | 18 | 23 | 27 | 43 | 44 | 46 | 46 | 45 | 41 | 50 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 15 | 18 | 22 | 27 | 28 | 28 | 17 | 14 | 11 | 3 | 28 | 28 | 18 | 19 | 24 | 28 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 15 | 18 | 22 | 27 | 29 | 28 | 18 | 14 | 12 | 3 | 29 | 28 | 18 | 18 | 23 | 28 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 15 | 18 | 22 | 27 | 25 | 26 | 15 | 12 | 11 | 3 | 25 | 26 | 16 | 19 | 23 | 28 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 167 | Private - Dwelling | - | - | 3 | 6 | 12 | 12 | 12 | 14 | 12 | 11 | 11 | 11 | 9 | 2 | 12 | 12 | 12 | 13 | 15 | 14 | 41 | 42 | 43 | 43 | 41 | 41 | 50 |
| 169 | Private - Dwelling | - | - | 3 | 6 | 11 | 12 | 12 | 14 | 13 | 14 | 11 | 10 | 9 | 2 | 13 | 14 | 14 | 14 | 16 | 14 | 41 | 42 | 43 | 43 | 41 | 41 | 50 |
| 170 | Private - Dwelling | - | - | 3 | 6 | 11 | 12 | 12 | 14 | 12 | 13 | 10 | 10 | 9 | 2 | 12 | 14 | 13 | 14 | 16 | 14 | 42 | 42 | 43 | 43 | 41 | 41 | 50 |
| 173 | Private - Dwelling | - | - | 2 | 5 | 9 | 10 | 11 | 12 | 13 | 14 | 13 | 11 | 11 | 3 | 14 | 16 | 17 | 16 | 17 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 174 | Private - Dwelling | - | - | 2 | 5 | 10 | 10 | 11 | 12 | 13 | 13 | 12 | 10 | 10 | 2 | 13 | 15 | 15 | 15 | 16 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 175 | Private - Dwelling | - | - | 3 | 5 | 10 | 11 | 11 | 12 | 13 | 13 | 12 | 10 | 9 | 2 | 13 | 14 | 15 | 15 | 16 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 176 | Private - Dwelling | - | - | 3 | 5 | 10 | 11 | 11 | 13 | 12 | 13 | 11 | 9 | 8 | 2 | 12 | 13 | 13 | 13 | 16 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 178 | Private - Dwelling | - | - | 3 | 5 | 10 | 10 | 11 | 12 | 10 | 11 | 9 | 7 | 7 | 2 | 11 | 12 | 12 | 12 | 15 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 179 | Private - Dwelling | - | - | 3 | 5 | 9 | 10 | 10 | 12 | 10 | 11 | 9 | 8 | 7 | 2 | 11 | 12 | 12 | 12 | 14 | 12 | 41 | 41 | 41 | 41 | 41 | 41 | 50 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 16 | 17 | 19 | 23 | 26 | 25 | 17 | 13 | 11 | 3 | 26 | 25 | 17 | 18 | 20 | 23 | 45 | 47 | 48 | 48 | 46 | 41 | 50 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 16 | 17 | 20 | 24 | 26 | 25 | 16 | 12 | 11 | 3 | 26 | 25 | 16 | 18 | 21 | 24 | 45 | 47 | 48 | 48 | 46 | 41 | 50 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 4 | 8 | 16 | 18 | 20 | 24 | 24 | 23 | 15 | 11 | 10 | 3 | 24 | 23 | 17 | 19 | 21 | 24 | 46 | 48 | 49 | 49 | 47 | 41 | 50 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 4 | 8 | 17 | 18 | 20 | 23 | 24 | 23 | 14 | 11 | 10 | 3 | 24 | 23 | 17 | 19 | 21 | 24 | 46 | 48 | 49 | 49 | 47 | 41 | 50 |
| 248 | Private - Dwelling | - | - | 3 | 5 | 10 | 10 | 11 | 12 | 12 | 13 | 11 | 9 | 9 | 2 | 12 | 14 | 14 | 14 | 16 | 13 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 249 | Private - Dwelling | - | - | 3 | 5 | 10 | 11 | 11 | 13 | 11 | 12 | 10 | 8 | 8 | 2 | 11 | 13 | 13 | 13 | 15 | 13 | 41 | 42 | 42 | 42 | 41 | 41 | 50 |
| 250 | Private - Dwelling | - | - | 3 | 5 | 9 | 9 | 10 | 11 | 8 | 8 | 7 | 7 | 6 | 1 | 8 | 10 | 10 | 11 | 13 | 11 | 41 | 41 | 41 | 41 | 41 | 41 | 50 |
| 251 | Private - Dwelling | - | - | 2 | 5 | 8 | 9 | 10 | 11 | 9 | 9 | 8 | 7 | 6 | 1 | 9 | 10 | 11 | 11 | 13 | 11 | 41 | 41 | 41 | 41 | 41 | 41 | 50 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 3 | 7 | 16 | 18 | 23 | 29 | 23 | 24 | 14 | 12 | 10 | 3 | 23 | 24 | 17 | 19 | 24 | 29 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 15 | 18 | 22 | 28 | 25 | 25 | 15 | 12 | 11 | 3 | 25 | 25 | 16 | 19 | 23 | 28 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 7 | 14 | 17 | 21 | 25 | 30 | 28 | 19 | 14 | 12 | 3 | 30 | 28 | 19 | 18 | 22 | 26 | 44 | 46 | 47 | 47 | 45 | 41 | 50 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 3 | 6 | 14 | 17 | 21 | 25 | 32 | 29 | 21 | 16 | 13 | 3 | 32 | 29 | 21 | 18 | 23 | 26 | 44 | 45 | 46 | 46 | 45 | 41 | 50 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 1 | 2 | 5 | 6 | 7 | 7 | 12 | 12 | 13 | 13 | 13 | 4 | 13 | 15 | 17 | 18 | 18 | 10 | 43 | 45 | 44 | 44 | 42 | 41 | 50 |
| 264 | Community Infrastructure | - | - | 1 | 1 | 3 | 4 | 5 | 5 | 17 | 10 | 16 | 22 | 23 | 8 | 18 | 12 | 17 | 24 | 26 | 11 | 57 | 66 | 66 | 66 | 49 | 41 | 50 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 2 | 43 | 43 | 43 | 43 | 42 | 41 | 50 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 2 | 5 | 11 | 13 | 15 | 14 | 22 | 15 | 16 | 16 | 24 | 7 | 23 | 16 | 17 | 18 | 27 | 18 | 50 | 55 | 53 | 58 | 55 | 47 | 50 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 2 | 5 | 10 | 12 | 13 | 13 | 22 | 15 | 15 | 15 | 22 | 7 | 22 | 15 | 17 | 17 | 25 | 17 | 49 | 53 | 52 | 58 | 54 | 46 | 50 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 2 | 6 | 13 | 14 | 18 | 21 | 17 | 12 | 13 | 14 | 19 | 6 | 17 | 13 | 16 | 18 | 27 | 25 | 51 | 51 | 50 | 53 | 56 | 48 | 50 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 2 | 6 | 13 | 13 | 18 | 21 | 17 | 12 | 13 | 14 | 19 | 6 | 17 | 13 | 16 | 18 | 27 | 25 | 51 | 50 | 50 | 53 | 56 | 49 | 50 |
| 321 | Private - Dwelling | - | - | 2 | 6 | 11 | 10 | 23 | 21 | 15 | 11 | 13 | 12 | 16 | 5 | 15 | 11 | 14 | 16 | 29 | 23 | 49 | 47 | 48 | 52 | 59 | 51 | 50 |
| 322 | Private - Dwelling | - | - | 2 | 5 | 9 | 11 | 22 | 20 | 14 | 10 | 12 | 11 | 14 | 4 | 14 | 11 | 13 | 15 | 27 | 23 | 48 | 47 | 48 | 51 | 58 | 51 | 50 |
| 324 | Private - Dwelling | - | - | 2 | 5 | 10 | 10 | 23 | 21 | 14 | 11 | 12 | 12 | 15 | 4 | 14 | 11 | 14 | 15 | 28 | 22 | 48 | 47 | 48 | 51 | 58 | 51 | 50 |
| 326 | Private - Dwelling | - | - | 2 | 6 | 13 | 18 | 30 | 31 | 11 | 8 | 9 | 9 | 13 | 4 | 11 | 10 | 16 | 23 | 35 | 32 | 45 | 46 | 48 | 52 | 55 | 47 | 50 |
| 327 | Private - Dwelling | - | - | 3 | 6 | 14 | 19 | 31 | 30 | 11 | 8 | 9 | 10 | 13 | 4 | 11 | 10 | 16 | 24 | 36 | 32 | 45 | 46 | 48 | 52 | 54 | 48 | 50 |
| 328 | Private - Dwelling | - | - | 2 | 6 | 13 | 17 | 31 | 33 | 12 | 9 | 10 | 10 | 14 | 4 | 12 | 10 | 15 | 22 | 37 | 35 | 46 | 46 | 48 | 53 | 57 | 48 | 50 |
| 330 | Private - Dwelling | - | - | 2 | 6 | 13 | 15 | 28 | 30 | 11 | 8 | 9 | 9 | 12 | 4 | 11 | 9 | 15 | 20 | 33 | 32 | 45 | 46 | 48 | 52 | 55 | 46 | 50 |
| 331 | Community Infrastructure | - | - | 2 | 6 | 13 | 15 | 29 | 32 | 11 | 9 | 9 | 9 | 13 | 4 | 11 | 10 | 15 | 21 | 35 | 34 | 46 | 46 | 48 | 53 | 57 | 47 | 50 |
| 332 | Private - Dwelling | - | - | 2 | 5 | 12 | 14 | 25 | 29 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 10 | 15 | 18 | 32 | 31 | 46 | 46 | 47 | 52 | 56 | 47 | 50 |
| 333 | Private - Dwelling | - | - | 2 | 6 | 13 | 15 | 25 | 28 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 9 | 15 | 18 | 31 | 30 | 46 | 45 | 47 | 52 | 56 | 47 | 50 |
| 334 | Private - Dwelling | - | - | 2 | 6 | 13 | 14 | 23 | 27 | 11 | 9 | 8 | 8 | 11 | 3 | 11 | 9 | 15 | 18 | 30 | 29 | 46 | 45 | 47 | 52 | 55 | 46 | 50 |
| 335 | Private - Dwelling | - | - | 2 | 5 | 12 | 14 | 24 | 28 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 9 | 15 | 18 | 31 | 30 | 46 | 45 | 47 | 52 | 56 | 47 | 50 |
| 336 | Private - Dwelling | - | - | 2 | 5 | 12 | 15 | 26 | 30 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 10 | 15 | 19 | 33 | 32 | 46 | 46 | 48 | 52 | 56 | 47 | 50 |
| 337 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 29 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 10 | 14 | 18 | 31 | 31 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 338 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 29 | 12 | 9 | 9 | 9 | 13 | 4 | 12 | 10 | 14 | 18 | 32 | 31 | 46 | 46 | 48 | 52 | 57 | 48 | 50 |
| 339 | Private - Dwelling | - | - | 2 | 5 | 12 | 12 | 19 | 23 | 11 | 8 | 9 | 8 | 10 | 3 | 11 | 9 | 14 | 16 | 25 | 25 | 45 | 45 | 46 | 50 | 54 | 46 | 50 |
| 340 | Private - Dwelling | - | - | 2 | 5 | 12 | 12 | 19 | 23 | 11 | 8 | 9 | 8 | 10 | 3 | 11 | 9 | 14 | 16 | 26 | 25 | 46 | 45 | 47 | 50 | 54 | 47 | 50 |
| 341 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 19 | 24 | 11 | 8 | 9 | 9 | 11 | 3 | 11 | 9 | 14 | 16 | 26 | 26 | 46 | 45 | 47 | 51 | 55 | 47 | 50 |
| 342 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 20 | 24 | 11 | 9 | 9 | 9 | 11 | 3 | 11 | 9 | 14 | 16 | 27 | 26 | 46 | 45 | 47 | 51 | 55 | 47 | 50 |
| 343 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 20 | 24 | 11 | 9 | 9 | 9 | 11 | 3 | 11 | 9 | 14 | 16 | 27 | 27 | 46 | 45 | 47 | 51 | 55 | 47 | 50 |
| 344 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 25 | 11 | 9 | 9 | 9 | 11 | 3 | 11 | 9 | 14 | 16 | 28 | 27 | 46 | 45 | 47 | 51 | 55 | 47 | 50 |
| 345 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 25 | 11 | 9 | 9 | 9 | 11 | 3 | 11 | 10 | 14 | 16 | 28 | 28 | 46 | 46 | 47 | 51 | 56 | 47 | 50 |
| 346 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 22 | 26 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 10 | 14 | 17 | 29 | 28 | 46 | 46 | 47 | 51 | 56 | 48 | 50 |
| 347 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 29 | 12 | 10 | 9 | 9 | 13 | 4 | 12 | 10 | 14 | 18 | 32 | 31 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 348 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 28 | 12 | 9 | 9 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 31 | 31 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 349 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 28 | 11 | 9 | 9 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 31 | 30 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 350 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 28 | 12 | 9 | 9 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 351 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 28 | 12 | 10 | 9 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 31 | 31 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 352 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 32 | 31 | 46 | 46 | 48 | 52 | 57 | 49 | 50 |
| 353 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 18 | 32 | 32 | 46 | 46 | 48 | 52 | 57 | 49 | 50 |
| 355 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 32 | 32 | 47 | 46 | 48 | 52 | 57 | 49 | 50 |
| 356 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 28 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 31 | 30 | 46 | 46 | 47 | 52 | 57 | 49 | 50 |
| 357 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 27 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 358 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 27 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 46 | 46 | 47 | 52 | 57 | 49 | 50 |
| 359 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 28 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 31 | 31 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 360 | Private - Dwelling | - | - | 2 | 4 | 11 | 14 | 24 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 11 | 14 | 17 | 32 | 31 | 47 | 46 | 48 | 52 | 58 | 49 | 50 |
| 361 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 25 | 30 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 11 | 14 | 18 | 32 | 31 | 47 | 46 | 48 | 52 | 58 | 49 | 50 |
| 362 | Private - Dwelling | - | - | 2 | 5 | 10 | 14 | 24 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 11 | 13 | 17 | 31 | 31 | 47 | 46 | 48 | 52 | 58 | 50 | 50 |
| 363 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 28 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 11 | 14 | 17 | 31 | 31 | 47 | 46 | 48 | 52 | 58 | 50 | 50 |
| 366 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 22 | 27 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 367 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 22 | 27 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 29 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |

**Modelled maximum 24-hour average PM10 concentrations (ug/m3)**

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Project (HVO S) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Project (HVO Complex) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Cumulative 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 368 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 27 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 369 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 22 | 27 | 12 | 10 | 10 | 10 | 13 | 4 | 12 | 11 | 13 | 17 | 30 | 30 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 370 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 26 | 12 | 9 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 29 | 28 | 46 | 46 | 47 | 52 | 57 | 48 | 50 |
| 371 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 25 | 12 | 10 | 10 | 10 | 12 | 4 | 12 | 10 | 14 | 17 | 28 | 28 | 47 | 46 | 47 | 52 | 56 | 49 | 50 |
| 372 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 24 | 12 | 9 | 10 | 9 | 11 | 3 | 12 | 10 | 14 | 16 | 27 | 26 | 46 | 46 | 47 | 51 | 56 | 48 | 50 |
| 373 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 25 | 12 | 10 | 10 | 10 | 12 | 4 | 12 | 10 | 14 | 17 | 28 | 28 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 374 | Private - Dwelling | - | - | 2 | 5 | 10 | 13 | 21 | 25 | 12 | 10 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 16 | 28 | 27 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 375 | Private - Dwelling | - | - | 2 | 5 | 10 | 13 | 21 | 25 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 14 | 16 | 27 | 27 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 376 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 22 | 26 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 11 | 13 | 17 | 29 | 28 | 47 | 46 | 47 | 52 | 58 | 50 | 50 |
| 377 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 22 | 26 | 12 | 10 | 10 | 10 | 13 | 4 | 12 | 11 | 13 | 17 | 29 | 29 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 380 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 21 | 22 | 12 | 9 | 10 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 381 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 21 | 23 | 12 | 9 | 10 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 382 | Community Infrastructure | - | - | 2 | 4 | 10 | 12 | 21 | 23 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 383 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 24 | 12 | 10 | 10 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 27 | 27 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 384 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 21 | 24 | 12 | 10 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 16 | 27 | 26 | 47 | 46 | 47 | 51 | 57 | 49 | 50 |
| 385 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 21 | 23 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 386 | Community Infrastructure | - | - | 2 | 5 | 10 | 12 | 21 | 22 | 12 | 9 | 10 | 10 | 12 | 3 | 12 | 9 | 13 | 15 | 25 | 24 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 389 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 24 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 11 | 13 | 16 | 27 | 27 | 47 | 46 | 47 | 52 | 58 | 50 | 50 |
| 390 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 27 | 26 | 47 | 46 | 47 | 52 | 57 | 50 | 50 |
| 391 | Private - Commercial | - | - | 2 | 4 | 9 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 392 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 393 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 58 | 50 | 50 |
| 394 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 395 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 23 | 24 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 27 | 27 | 47 | 46 | 48 | 52 | 58 | 51 | 50 |
| 396 | Community Infrastructure | - | - | 2 | 4 | 9 | 10 | 20 | 19 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 12 | 14 | 24 | 22 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 397 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 22 | 22 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 10 | 13 | 15 | 26 | 24 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 398 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 21 | 20 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 15 | 25 | 23 | 47 | 46 | 47 | 50 | 55 | 49 | 50 |
| 399 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 22 | 22 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 10 | 13 | 15 | 26 | 24 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 400 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 22 | 22 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 401 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 22 | 22 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 402 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 22 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 403 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 22 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 404 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 21 | 21 | 12 | 9 | 10 | 10 | 12 | 4 | 13 | 10 | 13 | 15 | 25 | 23 | 47 | 46 | 47 | 50 | 56 | 49 | 50 |
| 405 | Private - Dwelling | - | - | 2 | 4 | 9 | 12 | 22 | 22 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 406 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 23 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 10 | 13 | 16 | 26 | 25 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 407 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 21 | 21 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 9 | 13 | 15 | 25 | 23 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 408 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 20 | 20 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 9 | 13 | 15 | 24 | 22 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 409 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 21 | 21 | 12 | 9 | 10 | 10 | 12 | 3 | 12 | 9 | 13 | 15 | 24 | 23 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 410 | Community Infrastructure | - | - | 2 | 4 | 10 | 11 | 21 | 21 | 12 | 9 | 10 | 10 | 12 | 3 | 12 | 9 | 13 | 15 | 25 | 24 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 411 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 21 | 21 | 12 | 9 | 10 | 10 | 12 | 3 | 12 | 9 | 13 | 15 | 25 | 24 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 412 | Community Infrastructure | - | - | 2 | 4 | 10 | 11 | 20 | 20 | 12 | 9 | 10 | 9 | 12 | 3 | 12 | 9 | 13 | 15 | 24 | 23 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 413 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 20 | 20 | 12 | 9 | 10 | 9 | 12 | 3 | 12 | 9 | 13 | 15 | 24 | 22 | 46 | 46 | 47 | 50 | 54 | 48 | 50 |
| 414 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 20 | 20 | 12 | 9 | 10 | 9 | 12 | 3 | 12 | 9 | 13 | 15 | 24 | 23 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 415 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 20 | 20 | 12 | 9 | 10 | 9 | 12 | 3 | 12 | 9 | 13 | 15 | 24 | 23 | 46 | 46 | 47 | 50 | 55 | 48 | 50 |
| 417 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 26 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 29 | 28 | 46 | 46 | 47 | 52 | 57 | 49 | 50 |
| 418 | Private - Dwelling | - | - | 2 | 5 | 11 | 12 | 21 | 23 | 12 | 9 | 10 | 9 | 11 | 3 | 12 | 9 | 14 | 16 | 26 | 25 | 46 | 46 | 47 | 51 | 56 | 48 | 50 |
| 419 | Private - Dwelling | - | - | 2 | 4 | 9 | 10 | 19 | 18 | 11 | 9 | 9 | 9 | 11 | 3 | 12 | 9 | 13 | 14 | 23 | 20 | 46 | 45 | 46 | 49 | 53 | 47 | 50 |
| 420 | Private - Dwelling | - | - | 2 | 4 | 9 | 11 | 21 | 20 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 9 | 13 | 15 | 25 | 23 | 46 | 46 | 47 | 50 | 55 | 49 | 50 |
| 421 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 22 | 25 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 11 | 13 | 17 | 28 | 28 | 47 | 46 | 47 | 52 | 58 | 50 | 50 |
| 422 | Private - Dwelling | - | - | 2 | 4 | 10 | 13 | 22 | 25 | 13 | 10 | 11 | 10 | 13 | 4 | 13 | 11 | 13 | 17 | 28 | 28 | 47 | 46 | 47 | 52 | 57 | 50 | 50 |
| 423 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 24 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 27 | 26 | 47 | 46 | 47 | 52 | 58 | 50 | 50 |
| 425 | Private - Dwelling | - | - | 2 | 4 | 9 | 8 | 15 | 14 | 10 | 7 | 7 | 6 | 9 | 3 | 10 | 8 | 12 | 12 | 19 | 15 | 45 | 45 | 46 | 46 | 48 | 44 | 50 |
| 426 | Private - Dwelling | - | - | 2 | 4 | 8 | 8 | 15 | 14 | 10 | 7 | 7 | 7 | 10 | 3 | 10 | 8 | 11 | 11 | 19 | 15 | 45 | 45 | 46 | 46 | 47 | 44 | 50 |
| 427 | Private - Dwelling | - | - | 2 | 5 | 9 | 9 | 18 | 16 | 12 | 9 | 9 | 8 | 12 | 4 | 12 | 9 | 13 | 13 | 22 | 18 | 45 | 45 | 46 | 47 | 51 | 45 | 50 |
| 428 | Private - Dwelling | - | - | 2 | 5 | 9 | 9 | 18 | 17 | 12 | 9 | 9 | 9 | 12 | 4 | 12 | 9 | 13 | 13 | 23 | 18 | 45 | 45 | 46 | 48 | 51 | 46 | 50 |
| 429 | Private - Dwelling | - | - | 2 | 5 | 10 | 10 | 21 | 19 | 13 | 10 | 11 | 11 | 13 | 4 | 14 | 10 | 14 | 15 | 26 | 21 | 47 | 46 | 47 | 50 | 55 | 49 | 50 |
| 430 | Private - Dwelling | - | - | 2 | 5 | 9 | 9 | 19 | 17 | 12 | 9 | 9 | 9 | 12 | 4 | 12 | 9 | 13 | 13 | 24 | 19 | 46 | 46 | 47 | 48 | 53 | 47 | 50 |
| 431 | Private - Dwelling | - | - | 2 | 6 | 10 | 9 | 21 | 20 | 14 | 10 | 11 | 11 | 14 | 4 | 14 | 10 | 14 | 15 | 26 | 21 | 47 | 47 | 48 | 50 | 56 | 49 | 50 |
| 432 | Private - Dwelling | - | - | 2 | 5 | 10 | 8 | 15 | 15 | 12 | 8 | 9 | 9 | 12 | 4 | 12 | 9 | 12 | 13 | 21 | 17 | 46 | 46 | 46 | 48 | 48 | 44 | 50 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 2 | 4 | 9 | 7 | 13 | 13 | 13 | 9 | 9 | 9 | 13 | 4 | 13 | 10 | 11 | 12 | 19 | 15 | 46 | 46 | 46 | 48 | 47 | 44 | 50 |
| 434 | Private - Dwelling | - | - | 2 | 6 | 14 | 11 | 22 | 23 | 17 | 13 | 15 | 15 | 19 | 6 | 17 | 13 | 16 | 18 | 30 | 26 | 51 | 49 | 50 | 53 | 59 | 52 | 50 |
| 436 | Private - Dwelling | - | - | 2 | 6 | 13 | 11 | 19 | 21 | 16 | 12 | 12 | 13 | 17 | 6 | 16 | 12 | 15 | 17 | 27 | 24 | 50 | 49 | 49 | 52 | 56 | 49 | 50 |
| 437 | Private - Dwelling | - | - | 3 | 6 | 14 | 19 | 30 | 29 | 11 | 8 | 9 | 10 | 12 | 4 | 11 | 9 | 16 | 24 | 35 | 31 | 45 | 46 | 48 | 51 | 53 | 48 | 50 |
| 438 | Private - Dwelling | - | - | 2 | 6 | 12 | 17 | 25 | 24 | 9 | 7 | 8 | 8 | 10 | 3 | 9 | 8 | 14 | 20 | 29 | 25 | 45 | 45 | 47 | 48 | 50 | 47 | 50 |
| 440 | Private - Dwelling | - | - | 2 | 5 | 11 | 10 | 17 | 18 | 14 | 10 | 11 | 11 | 15 | 5 | 15 | 11 | 14 | 16 | 24 | 21 | 49 | 49 | 49 | 51 | 53 | 46 | 50 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 6 | 6 | 7 | 7 | 12 | 8 | 10 | 9 | 12 | 4 | 12 | 8 | 10 | 11 | 14 | 9 | 47 | 47 | 47 | 49 | 47 | 43 | 50 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 6 | 6 | 7 | 8 | 13 | 8 | 10 | 10 | 13 | 4 | 13 | 9 | 11 | 11 | 15 | 10 | 46 | 47 | 47 | 48 | 47 | 43 | 50 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 5 | 5 | 6 | 7 | 10 | 7 | 8 | 8 | 10 | 3 | 10 | 7 | 9 | 10 | 12 | 8 | 46 | 46 | 46 | 47 | 46 | 43 | 50 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 5 | 5 | 6 | 6 | 9 | 6 | 8 | 8 | 10 | 3 | 9 | 7 | 9 | 9 | 12 | 8 | 47 | 46 | 47 | 48 | 46 | 43 | 50 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 4 | 4 | 5 | 6 | 8 | 5 | 7 | 7 | 8 | 2 | 8 | 6 | 7 | 8 | 10 | 7 | 46 | 46 | 46 | 48 | 45 | 43 | 50 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 4 | 4 | 4 | 5 | 5 | 4 | 5 | 5 | 6 | 2 | 6 | 4 | 6 | 6 | 9 | 6 | 46 | 46 | 46 | 47 | 45 | 43 | 50 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 2 | 5 | 4 | 6 | 5 | 8 | 5 | 46 | 46 | 46 | 47 | 44 | 43 | 50 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 4 | 3 | 5 | 5 | 7 | 5 | 6 | 6 | 7 | 2 | 7 | 5 | 7 | 7 | 9 | 6 | 45 | 45 | 45 | 46 | 44 | 43 | 50 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 5 | 4 | 6 | 7 | 10 | 7 | 8 | 8 | 10 | 3 | 10 | 7 | 9 | 9 | 12 | 8 | 46 | 46 | 46 | 47 | 45 | 43 | 50 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 5 | 4 | 6 | 7 | 9 | 6 | 7 | 7 | 9 | 3 | 9 | 7 | 8 | 9 | 11 | 8 | 45 | 46 | 46 | 46 | 45 | 43 | 50 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 2 | 4 | 4 | 6 | 6 | 8 | 5 | 6 | 7 | 8 | 2 | 8 | 6 | 7 | 8 | 10 | 7 | 45 | 45 | 46 | 46 | 45 | 43 | 50 |
| 463 | Glencore Owned - Occupied | - | - | 2 | 5 | 11 | 14 | 15 | 15 | 21 | 15 | 15 | 15 | 22 | 6 | 21 | 15 | 16 | 17 | 26 | 19 | 49 | 54 | 52 | 57 | 54 | 47 | 50 |
| 464 | Private - Dwelling | - | - | 2 | 3 | 7 | 7 | 12 | 11 | 8 | 6 | 6 | 6 | 8 | 2 | 9 | 7 | 10 | 10 | 15 | 12 | 45 | 45 | 45 | 46 | 45 | 44 | 50 |
| 466 | Private - Dwelling | - | - | 2 | 5 | 10 | 9 | 15 | 16 | 9 | 7 | 7 | 6 | 8 | 2 | 9 | 7 | 12 | 13 | 19 | 18 | 44 | 45 | 46 | 47 | 49 | 44 | 50 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 9 | 16 | 25 | 25 | 20 | 25 | 8 | 6 | 5 | 5 | 6 | 1 | 10 | 16 | 26 | 26 | 21 | 26 | 55 | 61 | 69 | 66 | 59 | 41 | 50 |
| 472 | Private - Dwelling | - | - | 1 | 1 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 4 | 4 | 5 | 4 | 43 | 43 | 43 | 43 | 43 | 42 | 50 |
| 473 | Private - Commercial | - | - | 2 | 4 | 10 | 12 | 22 | 23 | 13 | 10 | 11 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 26 | 26 | 47 | 46 | 47 | 51 | 57 | 50 | 50 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 1 | 4 | 3 | 4 | 4 | 6 | 4 | 45 | 45 | 45 | 44 | 44 | 42 | 50 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1 | 3 | 5 | 5 | 7 | 7 | 10 | 7 | 8 | 8 | 11 | 3 | 11 | 7 | 9 | 10 | 13 | 9 | 46 | 46 | 46 | 47 | 45 | 43 | 50 |
| 481 | Private - Dwelling | - | - | 2 | 5 | 9 | 9 | 18 | 16 | 12 | 9 | 9 | 8 | 12 | 4 | 12 | 9 | 13 | 13 | 22 | 18 | 45 | 45 | 46 | 47 | 51 | 45 | 50 |
| 482 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 29 | 12 | 10 | 10 | 9 | 13 | 4 | 12 | 10 | 14 | 17 | 31 | 31 | 46 | 46 | 47 | 52 | 57 | 49 | 50 |
| 483 | Community Infrastructure | - | - | 2 | 5 | 11 | 14 | 22 | 27 | 11 | 9 | 9 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 29 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 484 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 24 | 28 | 11 | 9 | 9 | 9 | 12 | 4 | 11 | 10 | 14 | 17 | 31 | 30 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 487 | Private - Dwelling | - | - | 3 | 6 | 13 | 18 | 27 | 25 | 10 | 8 | 9 | 9 | 11 | 3 | 10 | 9 | 16 | 22 | 31 | 27 | 45 | 45 | 48 | 49 | 51 | 48 | 50 |
| 488 | Private - Dwelling | - | - | 2 | 5 | 10 | 15 | 22 | 21 | 8 | 6 | 7 | 7 | 9 | 3 | 8 | 8 | 13 | 18 | 26 | 22 | 44 | 45 | 47 | 47 | 49 | 46 | 50 |
| 489 | Private - Dwelling | - | - | 2 | 5 | 10 | 15 | 22 | 21 | 9 | 7 | 7 | 7 | 9 | 3 | 9 | 8 | 13 | 18 | 26 | 22 | 44 | 45 | 47 | 47 | 48 | 46 | 50 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 4 | 7 | 16 | 19 | 24 | 29 | 20 | 22 | 13 | 11 | 9 | 3 | 20 | 22 | 17 | 19 | 24 | 30 | 44 | 46 | 47 | 47 | 46 | 41 | 50 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 3 | 8 | 16 | 18 | 20 | 24 | 25 | 24 | 16 | 12 | 11 | 3 | 25 | 24 | 17 | 19 | 21 | 24 | 45 | 47 | 48 | 48 | 46 | 41 | 50 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 8 | 13 | 22 | 21 | 18 | 23 | 6 | 5 | 4 | 5 | 5 | 1 | 8 | 13 | 23 | 21 | 20 | 24 | 53 | 55 | 62 | 58 | 50 | 41 | 50 |
| 507 | Community Infrastructure | - | - | 3 | 6 | 10 | 9 | 7 | 6 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 6 | 10 | 9 | 7 | 6 | 44 | 57 | 57 | 56 | 41 | 41 | 50 |
| 511 | Community Infrastructure | - | - | 3 | 5 | 8 | 8 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 5 | 9 | 9 | 6 | 6 | 42 | 46 | 46 | 46 | 41 | 41 | 50 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 4 | 6 | 10 | 9 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 6 | 10 | 9 | 7 | 7 | 43 | 48 | 48 | 48 | 41 | 41 | 50 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 5 | 8 | 14 | 15 | 14 | 14 | 4 | 3 | 3 | 3 | 3 | 1 | 5 | 8 | 15 | 17 | 15 | 15 | 58 | 94 | 94 | 94 | 45 | 41 | 50 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 3 | 5 | 9 | 8 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 6 | 10 | 8 | 6 | 6 | 44 | 51 | 52 | 49 | 41 | 41 | 50 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 3 | 6 | 10 | 8 | 6 | 6 | 3 | 2 | 2 | 2 | 2 | 1 | 4 | 6 | 10 | 8 | 6 | 6 | 47 | 57 | 58 | 56 | 41 | 41 | 50 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 3 | 6 | 10 | 8 | 6 | 6 | 3 | 2 | 2 | 2 | 2 | 1 | 4 | 6 | 10 | 8 | 6 | 6 | 47 | 57 | 58 | 56 | 41 | 41 | 50 |
| 614 | Private - Dwelling | - | - | 3 | 6 | 10 | 8 | 6 | 6 | 3 | 2 | 2 | 2 | 2 | 1 | 4 | 6 | 10 | 8 | 6 | 6 | 47 | 57 | 58 | 56 | 41 | 41 | 50 |

**Modelled maximum 24-hour average PM10 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 7 | 12 | 17 | 19 | 18 | 19 | 4 | 4 | 3 | 3 | 3 | 1 | 8 | 12 | 18 | 20 | 19 | 19 | 62 | 51 | 56 | 49 | 45 | 41 | 50 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 8 | 13 | 21 | 19 | 19 | 24 | 5 | 4 | 4 | 4 | 4 | 1 | 8 | 13 | 22 | 19 | 21 | 25 | 57 | 60 | 61 | 60 | 52 | 41 | 50 |
| 623 | Community Infrastructure | - | - | 8 | 14 | 21 | 20 | 21 | 23 | 4 | 4 | 3 | 3 | 3 | 1 | 9 | 14 | 22 | 21 | 22 | 23 | 67 | 55 | 61 | 56 | 50 | 41 | 50 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 8 | 14 | 21 | 20 | 21 | 23 | 4 | 4 | 3 | 3 | 3 | 1 | 9 | 14 | 21 | 21 | 22 | 23 | 65 | 55 | 61 | 55 | 50 | 41 | 50 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contiguous lots 1/8/758214 and 2/8/758214 | 8 | 13 | 20 | 21 | 21 | 22 | 4 | 4 | 3 | 3 | 3 | 1 | 8 | 14 | 20 | 22 | 21 | 22 | 68 | 56 | 62 | 55 | 50 | 41 | 50 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 8 | 13 | 19 | 21 | 20 | 20 | 4 | 4 | 3 | 3 | 3 | 1 | 8 | 13 | 19 | 22 | 20 | 21 | 68 | 55 | 61 | 54 | 49 | 41 | 50 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 8 | 12 | 18 | 20 | 19 | 20 | 4 | 4 | 3 | 3 | 3 | 1 | 8 | 13 | 19 | 21 | 20 | 20 | 68 | 54 | 61 | 53 | 48 | 41 | 50 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 8 | 12 | 19 | 21 | 18 | 18 | 4 | 4 | 3 | 3 | 3 | 1 | 8 | 12 | 20 | 22 | 19 | 19 | 72 | 55 | 62 | 53 | 48 | 41 | 50 |
| 735 | Private - Commercial | - | - | 11 | 16 | 26 | 20 | 13 | 15 | 7 | 7 | 6 | 5 | 3 | 1 | 11 | 16 | 26 | 20 | 14 | 15 | 69 | 132 | 132 | 89 | 55 | 42 | 50 |
| 797 | Community Infrastructure | - | - | 12 | 18 | 28 | 23 | 14 | 15 | 7 | 7 | 6 | 5 | 3 | 1 | 12 | 18 | 29 | 24 | 15 | 16 | 76 | 138 | 138 | 93 | 60 | 43 | 50 |
| 799 | Community Infrastructure | - | - | 12 | 18 | 28 | 23 | 14 | 15 | 7 | 7 | 6 | 5 | 3 | 1 | 12 | 18 | 29 | 24 | 15 | 16 | 76 | 138 | 138 | 93 | 60 | 43 | 50 |
| 800 | Private - Commercial | - | - | 12 | 18 | 28 | 23 | 14 | 15 | 7 | 7 | 6 | 5 | 3 | 1 | 12 | 18 | 29 | 24 | 15 | 16 | 76 | 138 | 138 | 93 | 60 | 43 | 50 |
| 829 | Private - Commercial | - | - | 1 | 2 | 5 | 6 | 7 | 7 | 14 | 14 | 15 | 16 | 16 | 5 | 15 | 17 | 19 | 19 | 20 | 10 | 44 | 47 | 47 | 47 | 43 | 41 | 50 |
| 830 | Private - Commercial | - | - | 1 | 2 | 4 | 5 | 6 | 6 | 14 | 15 | 15 | 14 | 15 | 5 | 15 | 17 | 18 | 18 | 19 | 9 | 45 | 49 | 49 | 50 | 43 | 41 | 50 |
| 833 | Private - Commercial | - | - | 1 | 3 | 6 | 7 | 9 | 12 | 56 | 58 | 65 | 60 | 67 | 22 | 57 | 61 | 69 | 66 | 73 | 30 | 75 | 97 | 104 | 92 | 87 | 45 | 50 |
| 834 | Private - Commercial | - | - | 2 | 4 | 10 | 12 | 22 | 23 | 13 | 10 | 11 | 11 | 13 | 4 | 13 | 11 | 13 | 16 | 27 | 26 | 47 | 46 | 47 | 52 | 58 | 50 | 50 |
| 835 | Private - Dwelling | - | - | 2 | 5 | 11 | 14 | 23 | 28 | 12 | 10 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 30 | 30 | 47 | 46 | 47 | 52 | 57 | 49 | 50 |
| 836 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 25 | 12 | 9 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 28 | 28 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 837 | Private - Dwelling | - | - | 2 | 5 | 11 | 13 | 21 | 26 | 12 | 9 | 10 | 9 | 12 | 4 | 12 | 10 | 14 | 17 | 29 | 28 | 46 | 46 | 47 | 52 | 56 | 48 | 50 |
| 838 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 22 | 24 | 13 | 10 | 11 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 27 | 26 | 47 | 46 | 47 | 52 | 57 | 50 | 50 |
| 839 | Private - Dwelling | - | - | 2 | 4 | 10 | 11 | 21 | 22 | 12 | 9 | 10 | 10 | 12 | 4 | 12 | 10 | 13 | 15 | 25 | 24 | 46 | 46 | 47 | 51 | 56 | 49 | 50 |
| 840 | Private - Dwelling | - | - | 2 | 4 | 10 | 12 | 21 | 22 | 12 | 9 | 10 | 10 | 12 | 4 | 13 | 10 | 13 | 16 | 25 | 24 | 47 | 46 | 47 | 51 | 56 | 49 | 50 |
| 843 | Private - Dwelling | - | - | 3 | 6 | 10 | 10 | 10 | 12 | 9 | 9 | 8 | 8 | 7 | 2 | 9 | 9 | 11 | 11 | 13 | 12 | 41 | 42 | 42 | 42 | 41 | 41 | 50 |
| 846 | Private - Dwelling | - | - | 4 | 7 | 12 | 12 | 12 | 14 | 13 | 12 | 11 | 9 | 8 | 2 | 13 | 12 | 13 | 13 | 14 | 15 | 45 | 45 | 46 | 46 | 43 | 41 | 50 |
| 847 | Private - Dwelling | - | - | 4 | 7 | 12 | 12 | 12 | 14 | 13 | 12 | 11 | 10 | 8 | 2 | 13 | 12 | 13 | 12 | 14 | 15 | 43 | 44 | 45 | 45 | 42 | 41 | 50 |
| 852 | Private - Dwelling | - | - | 4 | 7 | 13 | 12 | 12 | 14 | 14 | 14 | 12 | 11 | 9 | 2 | 14 | 14 | 13 | 13 | 14 | 15 | 42 | 43 | 44 | 44 | 41 | 41 | 50 |
| 855 | Private - Dwelling | - | - | 2 | 5 | 9 | 10 | 10 | 12 | 12 | 12 | 12 | 10 | 10 | 2 | 13 | 15 | 15 | 15 | 16 | 12 | 41 | 41 | 42 | 42 | 41 | 41 | 50 |
| 856 | Private - Dwelling | - | - | 4 | 7 | 12 | 11 | 11 | 13 | 11 | 11 | 10 | 9 | 8 | 2 | 11 | 11 | 12 | 12 | 14 | 13 | 42 | 43 | 43 | 43 | 41 | 41 | 50 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 7 | 12 | 18 | 17 | 19 | 21 | 4 | 3 | 3 | 3 | 3 | 1 | 7 | 12 | 19 | 18 | 20 | 21 | 57 | 62 | 64 | 60 | 47 | 41 | 50 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 6 | 9 | 17 | 18 | 16 | 16 | 3 | 3 | 3 | 3 | 3 | 1 | 7 | 10 | 18 | 19 | 16 | 16 | 66 | 64 | 64 | 62 | 47 | 41 | 50 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 8 | 11 | 21 | 22 | 18 | 18 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 12 | 21 | 22 | 18 | 18 | 87 | 66 | 71 | 60 | 49 | 41 | 50 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 7 | 10 | 20 | 21 | 17 | 17 | 4 | 3 | 3 | 3 | 3 | 1 | 7 | 11 | 20 | 21 | 17 | 17 | 84 | 66 | 67 | 57 | 47 | 41 | 50 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous | 7 | 14 | 24 | 23 | 21 | 26 | 8 | 7 | 6 | 6 | 7 | 2 | 8 | 15 | 25 | 24 | 22 | 27 | 50 | 53 | 57 | 55 | 51 | 41 | 50 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contiguous | 7 | 13 | 23 | 22 | 21 | 26 | 8 | 7 | 7 | 6 | 6 | 2 | 8 | 14 | 24 | 23 | 21 | 26 | 50 | 53 | 56 | 54 | 50 | 41 | 50 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 4 | 8 | 17 | 19 | 24 | 30 | 17 | 17 | 11 | 10 | 8 | 2 | 17 | 17 | 18 | 20 | 24 | 30 | 44 | 46 | 47 | 47 | 46 | 42 | 50 |
| 949 | Private - Dwelling | - | - | 4 | 8 | 17 | 19 | 24 | 30 | 17 | 17 | 11 | 10 | 8 | 2 | 17 | 17 | 18 | 20 | 24 | 30 | 44 | 46 | 47 | 47 | 46 | 42 | 50 |
| 950 | Private - Dwelling | - | - | 4 | 8 | 17 | 19 | 24 | 30 | 17 | 17 | 11 | 10 | 8 | 2 | 17 | 17 | 18 | 20 | 24 | 30 | 44 | 46 | 47 | 47 | 46 | 42 | 50 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled number of days above 50 ug/m3 PM10**

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Project (HVO S) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Project (HVO Complex) 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Cumulative 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D119 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| DL14 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 124 | 90 | 36 | 2 | 0 | - |
| D118 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 2 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL22 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL21 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| D122 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL30 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 0 | 13 | 48 | 53 | 44 | 17 | 0 | - |
| DL2 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 5 | 7 | 9 | 19 | 20 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 124 | 90 | 36 | 2 | 0 | - |
| Cheshunt East | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 20 | 35 | 39 | 34 | 19 | - |
| Long Point | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 2 | 0 | - |
| Wandewoi | Monitor | - | - | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 1 | 19 | 4 | 15 | 5 | 15 | 38 | 82 | 15 | - |
| Howick | Monitor | - | - | 2 | 13 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 16 | 24 | 7 | 2 | 1 | 154 | 192 | 198 | 160 | 100 | 5 | - |
| Golden Highway | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 208 | 210 | 208 | 0 | 0 | - |
| HC1 Conveyor | Monitor | - | - | 17 | 228 | 211 | 239 | 46 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 235 | 214 | 244 | 49 | 71 | 131 | 356 | 336 | 343 | 289 | 109 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 28 | 26 | 22 | 0 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Jerrys Plains | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Cheshunt East | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 20 | 35 | 39 | 34 | 19 | - |
| HVGC | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 9 | 6 | 8 | 0 | 3 | 1 | 11 | 11 | 20 | 0 | 35 | 74 | 98 | 81 | 56 | 0 | - |
| Long Point | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 2 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 2 | 0 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 17 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 19 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 37 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 27 | 24 | 0 | 0 | - |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 127 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 134 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 141 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 167 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 169 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 170 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 173 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 174 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 175 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 176 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 178 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 179 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 248 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 249 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 250 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 251 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 264 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 30 | 27 | 24 | 0 | 0 | - |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 6 | 2 | 0 | - |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 0 | - |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 3 | 0 | - |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 0 | - |
| 321 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 322 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 324 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 326 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | - |
| 327 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | - |
| 328 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | - |
| 330 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | - |
| 331 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | - |
| 332 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 333 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 334 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 335 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 336 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 337 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 338 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 339 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 340 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 341 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 342 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 343 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 344 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 345 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 346 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 347 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 348 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 349 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 350 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 351 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 352 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 353 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 355 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 356 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 357 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 358 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 359 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 360 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 361 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 362 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 363 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 366 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 367 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |

Modelled number of days above 50 ug/m3 PM10

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 369 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 370 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 371 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 372 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 373 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 374 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 375 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 376 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 377 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 380 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 381 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 382 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 383 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 384 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 385 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 386 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 389 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 390 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 391 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 392 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 393 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 394 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 395 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 396 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 397 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 398 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 399 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 400 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 401 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 402 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 403 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 404 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 405 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 406 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 407 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 408 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 409 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 410 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 411 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 412 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 413 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 414 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 415 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 417 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 418 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 419 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 420 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 421 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 422 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 423 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 425 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 426 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 427 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 428 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 429 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 430 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 431 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 432 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 434 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 2 | 1 | - |
| 436 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | - |
| 437 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | - |
| 438 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 440 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | - |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 463 | Glencore Owned - Occupied | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 2 | 0 | - |
| 464 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 466 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 18 | 17 | 7 | 0 | - |
| 472 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 473 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 481 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | - |
| 482 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 483 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 484 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 487 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | - |
| 488 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 489 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 9 | 7 | 0 | 0 | - |
| 507 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 5 | 0 | 0 | - |
| 511 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 173 | 178 | 169 | 0 | 0 | - |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | - |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 4 | 0 | 0 | - |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 4 | 0 | 0 | - |
| 614 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 4 | 0 | 0 | - |

**Modelled number of days above 50 ug/m3 PM10**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 13 | 0 | 0 | 0 | - |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 16 | 24 | 17 | 1 | 0 | - |
| 623 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | 23 | 10 | 0 | 0 | - |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 12 | 24 | 8 | 0 | 0 | - |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 15 | 25 | 10 | 0 | 0 | - |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 23 | 8 | 0 | 0 | - |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 21 | 6 | 0 | 0 | - |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 11 | 21 | 4 | 0 | 0 | - |
| 735 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 150 | 157 | 72 | 6 | 0 | - |
| 797 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 139 | 145 | 72 | 19 | 0 | - |
| 799 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 139 | 145 | 72 | 19 | 0 | - |
| 800 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 139 | 145 | 72 | 19 | 0 | - |
| 829 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 830 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 833 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 12 | 7 | 16 | 0 | 4 | 1 | 14 | 14 | 25 | 0 | 42 | 82 | 109 | 86 | 62 | 0 | - |
| 834 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | - |
| 835 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 836 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 837 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 838 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 839 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 840 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | - |
| 843 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 846 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 847 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 852 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 855 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 856 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 24 | 13 | 0 | 0 | - |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 24 | 30 | 18 | 0 | 0 | - |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 32 | 47 | 14 | 0 | 0 | - |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 34 | 47 | 15 | 0 | 0 | - |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 2 | 0 | - |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | - |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 949 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 950 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled annual average PM10 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 0.2 | 0.6 | 1.3 | 1.5 | 2.2 | 2.2 | 2.8 | 1.9 | 2.1 | 2.3 | 2.9 | 0.9 | 3.0 | 2.5 | 3.4 | 3.8 | 5.1 | 3.1 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| DL14 | Monitor | - | - | 0.5 | 1.1 | 2.3 | 3.0 | 4.2 | 5.1 | 1.9 | 1.9 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 3.0 | 3.6 | 4.2 | 5.1 | 5.3 | 20 | 21 | 22 | 22 | 21 | 20 | 25 |
| Warkworth | Monitor | - | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.0 | 3.5 | 2.3 | 3.2 | 4.4 | 4.0 | 1.3 | 3.6 | 2.5 | 3.7 | 5.1 | 4.8 | 2.2 | 25 | 45 | 41 | 37 | 23 | 16 | 25 |
| D118 | Monitor | - | - | 0.2 | 0.4 | 0.8 | 1.0 | 1.4 | 1.4 | 2.8 | 1.5 | 1.9 | 2.4 | 3.2 | 1.0 | 3.0 | 1.9 | 2.8 | 3.4 | 4.7 | 2.5 | 20 | 23 | 22 | 26 | 22 | 17 | 25 |
| Knodlers Lane | Monitor | - | - | 0.3 | 0.8 | 1.7 | 2.2 | 3.1 | 3.7 | 2.9 | 3.0 | 2.0 | 1.6 | 1.3 | 0.3 | 3.2 | 3.8 | 3.7 | 3.8 | 4.4 | 4.0 | 20 | 22 | 22 | 22 | 20 | 18 | 25 |
| DL22 | Monitor | - | - | 0.3 | 0.6 | 1.2 | 1.6 | 2.4 | 2.7 | 5.7 | 6.1 | 4.8 | 3.9 | 2.9 | 0.7 | 5.9 | 6.7 | 6.1 | 5.5 | 5.3 | 3.4 | 24 | 26 | 25 | 25 | 21 | 18 | 25 |
| DL21 | Monitor | - | - | 0.4 | 0.8 | 1.8 | 2.5 | 3.6 | 4.3 | 3.2 | 3.3 | 2.0 | 1.6 | 1.3 | 0.3 | 3.5 | 4.2 | 3.8 | 4.1 | 4.9 | 4.7 | 21 | 22 | 22 | 22 | 21 | 19 | 25 |
| D122 | Monitor | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.5 | 1.7 | 1.9 | 1.9 | 1.6 | 1.4 | 1.2 | 0.3 | 2.1 | 2.4 | 2.6 | 2.6 | 2.7 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| DL30 | Monitor | - | - | 0.2 | 0.4 | 0.9 | 1.2 | 1.9 | 2.2 | 10.0 | 10.3 | 11.9 | 11.2 | 9.0 | 2.3 | 10.2 | 10.7 | 12.8 | 12.5 | 10.9 | 4.5 | 29 | 34 | 36 | 35 | 26 | 19 | 25 |
| DL2 | Monitor | - | - | 0.8 | 2.0 | 4.5 | 6.3 | 8.9 | 12.1 | 4.1 | 4.4 | 2.7 | 2.2 | 1.5 | 0.4 | 4.9 | 6.3 | 7.2 | 8.5 | 10.3 | 12.5 | 23 | 26 | 27 | 28 | 28 | 27 | 25 |
| Warkworth | Monitor | - | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.0 | 3.5 | 2.3 | 3.2 | 4.4 | 4.0 | 1.3 | 3.6 | 2.5 | 3.7 | 5.1 | 4.8 | 2.2 | 25 | 45 | 41 | 37 | 23 | 16 | 25 |
| Cheshunt East | Monitor | - | - | 1.2 | 2.7 | 5.8 | 7.3 | 8.5 | 12.0 | 2.7 | 2.8 | 1.9 | 1.6 | 1.1 | 0.3 | 3.9 | 5.5 | 7.8 | 8.9 | 9.6 | 12.3 | 25 | 28 | 30 | 31 | 30 | 27 | 25 |
| Long Point | Monitor | - | - | 0.2 | 0.4 | 0.9 | 1.1 | 1.5 | 1.6 | 2.4 | 2.4 | 2.1 | 1.9 | 1.6 | 0.4 | 2.6 | 2.8 | 3.0 | 3.0 | 3.1 | 2.0 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.4 | 0.8 | 1.0 | 1.4 | 1.4 | 2.8 | 1.5 | 1.9 | 2.4 | 3.3 | 1.0 | 3.0 | 1.9 | 2.8 | 3.4 | 4.7 | 2.5 | 20 | 23 | 22 | 26 | 22 | 17 | 25 |
| Wandewoi | Monitor | - | - | 0.5 | 1.3 | 3.1 | 4.2 | 7.0 | 6.8 | 10.2 | 5.3 | 6.3 | 8.0 | 12.3 | 4.0 | 10.7 | 6.7 | 9.4 | 12.2 | 19.3 | 10.8 | 27 | 25 | 28 | 31 | 35 | 25 | 25 |
| Howick | Monitor | - | - | 12.6 | 16.2 | 17.9 | 10.4 | 5.0 | 5.1 | 1.1 | 1.1 | 0.9 | 0.7 | 0.6 | 0.2 | 13.6 | 17.3 | 18.8 | 11.1 | 5.6 | 5.3 | 44 | 51 | 53 | 45 | 38 | 20 | 25 |
| Golden Highway | Monitor | - | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.7 | 0.8 | 2.1 | 1.6 | 1.9 | 2.3 | 2.1 | 0.7 | 2.2 | 1.8 | 2.4 | 2.8 | 2.9 | 1.5 | 41 | 58 | 58 | 58 | 18 | 16 | 25 |
| HC1 Conveyor | Monitor | - | - | 17.7 | 79.3 | 74.8 | 108.2 | 20.5 | 27.8 | 3.5 | 3.5 | 2.7 | 2.4 | 1.6 | 0.5 | 21.2 | 82.8 | 77.5 | 110.5 | 22.1 | 28.3 | 45 | 151 | 146 | 179 | 89 | 43 | 25 |
| Maison Dieu | Monitor | - | - | 0.5 | 1.0 | 2.2 | 3.0 | 4.1 | 5.0 | 1.9 | 1.9 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 3.0 | 3.6 | 4.1 | 5.0 | 5.3 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| Warkworth | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.8 | 2.5 | 1.7 | 2.3 | 3.0 | 2.8 | 0.9 | 2.6 | 1.9 | 2.7 | 3.6 | 3.5 | 1.7 | 26 | 37 | 36 | 35 | 20 | 16 | 25 |
| Knodlers Lane | Monitor | - | - | 0.3 | 0.7 | 1.4 | 1.9 | 2.7 | 3.2 | 5.4 | 5.8 | 4.1 | 3.2 | 2.4 | 0.6 | 5.7 | 6.4 | 5.5 | 5.0 | 5.1 | 3.7 | 23 | 25 | 24 | 24 | 21 | 18 | 25 |
| Jerrys Plains | Monitor | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.2 | 2.1 | 1.7 | 1.3 | 1.3 | 1.4 | 1.7 | 0.5 | 2.0 | 1.9 | 2.7 | 2.9 | 3.9 | 2.6 | 17 | 17 | 18 | 18 | 19 | 17 | 25 |
| Cheshunt East | Monitor | - | - | 1.2 | 2.7 | 5.8 | 7.3 | 8.5 | 12.0 | 2.7 | 2.8 | 1.9 | 1.6 | 1.1 | 0.3 | 3.9 | 5.5 | 7.8 | 8.9 | 9.6 | 12.3 | 25 | 28 | 30 | 31 | 30 | 27 | 25 |
| HVGC | Monitor | - | - | 0.2 | 0.4 | 0.9 | 1.2 | 1.8 | 2.0 | 12.6 | 9.7 | 14.4 | 13.9 | 13.7 | 3.9 | 12.7 | 10.1 | 15.3 | 15.1 | 15.4 | 6.0 | 32 | 36 | 40 | 38 | 31 | 20 | 25 |
| Long Point | Monitor | - | - | 0.2 | 0.4 | 0.9 | 1.1 | 1.5 | 1.6 | 2.4 | 2.4 | 2.1 | 1.9 | 1.6 | 0.4 | 2.6 | 2.8 | 3.0 | 3.0 | 3.1 | 2.0 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.4 | 0.9 | 1.0 | 1.4 | 1.4 | 2.8 | 1.6 | 1.9 | 2.4 | 3.3 | 1.0 | 3.0 | 2.0 | 2.8 | 3.4 | 4.7 | 2.5 | 20 | 23 | 22 | 26 | 22 | 17 | 25 |
| Kilburnie South | Monitor | - | - | 0.2 | 0.4 | 0.8 | 1.0 | 1.4 | 1.4 | 2.8 | 1.5 | 1.9 | 2.4 | 3.2 | 1.0 | 3.0 | 1.9 | 2.8 | 3.4 | 4.7 | 2.5 | 20 | 23 | 22 | 26 | 22 | 17 | 25 |
| Maison Dieu | Monitor | - | - | 0.5 | 1.0 | 2.2 | 3.0 | 4.1 | 5.0 | 1.9 | 2.0 | 1.3 | 1.1 | 0.9 | 0.3 | 2.4 | 3.0 | 3.6 | 4.1 | 5.0 | 5.2 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| Maison Dieu | Monitor | - | - | 0.5 | 1.0 | 2.2 | 3.0 | 4.1 | 5.0 | 1.9 | 1.9 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 3.0 | 3.6 | 4.1 | 5.0 | 5.3 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| Knodlers Lane | Monitor | - | - | 0.3 | 0.8 | 1.7 | 2.2 | 3.1 | 3.7 | 2.9 | 3.0 | 2.0 | 1.6 | 1.3 | 0.3 | 3.2 | 3.8 | 3.7 | 3.8 | 4.4 | 4.0 | 20 | 22 | 22 | 22 | 20 | 18 | 25 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 15 | 16 | 16 | 16 | 15 | 14 | 25 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 15 | 16 | 16 | 16 | 15 | 14 | 25 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.2 | 16 | 16 | 16 | 16 | 15 | 14 | 25 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 0.9 | 2.7 | 1.8 | 2.4 | 3.2 | 3.0 | 1.0 | 2.8 | 2.0 | 2.9 | 3.8 | 3.8 | 1.8 | 26 | 38 | 37 | 35 | 21 | 16 | 25 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.8 | 1.7 | 2.2 | 3.1 | 3.7 | 2.9 | 3.0 | 2.0 | 1.6 | 1.3 | 0.3 | 3.3 | 3.8 | 3.7 | 3.8 | 4.4 | 4.0 | 20 | 22 | 22 | 22 | 20 | 18 | 25 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.7 | 1.5 | 2.0 | 2.9 | 3.4 | 3.6 | 3.7 | 2.6 | 2.0 | 1.6 | 0.4 | 3.9 | 4.4 | 4.1 | 4.1 | 4.5 | 3.8 | 21 | 23 | 23 | 22 | 20 | 18 | 25 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.4 | 0.8 | 1.7 | 2.3 | 3.2 | 3.8 | 2.6 | 2.7 | 1.8 | 1.5 | 1.2 | 0.3 | 3.0 | 3.5 | 3.5 | 3.7 | 4.4 | 4.1 | 20 | 22 | 22 | 22 | 20 | 18 | 25 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.3 | 0.8 | 1.6 | 2.1 | 3.0 | 3.5 | 3.1 | 3.2 | 2.2 | 1.8 | 1.4 | 0.4 | 3.5 | 4.0 | 3.8 | 3.9 | 4.4 | 3.8 | 21 | 22 | 22 | 22 | 20 | 18 | 25 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.4 | 0.8 | 1.8 | 2.3 | 3.2 | 3.8 | 2.5 | 2.6 | 1.8 | 1.4 | 1.2 | 0.3 | 2.9 | 3.4 | 3.5 | 3.7 | 4.3 | 4.1 | 20 | 22 | 22 | 22 | 20 | 18 | 25 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.1 | 0.3 | 0.6 | 0.8 | 1.0 | 1.1 | 2.3 | 2.0 | 2.2 | 2.2 | 2.0 | 0.6 | 2.4 | 2.3 | 2.8 | 2.9 | 3.0 | 1.7 | 20 | 22 | 22 | 22 | 18 | 16 | 25 |
| 127 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.4 | 1.7 | 2.2 | 2.5 | 2.4 | 2.4 | 1.9 | 1.6 | 1.3 | 0.3 | 2.7 | 3.1 | 3.2 | 3.3 | 3.5 | 2.8 | 20 | 21 | 21 | 21 | 19 | 17 | 25 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.2 | 0.4 | 0.8 | 0.9 | 1.3 | 1.4 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 | 0.5 | 2.7 | 2.9 | 3.2 | 3.2 | 3.3 | 1.9 | 20 | 21 | 22 | 22 | 18 | 16 | 25 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.2 | 0.4 | 0.9 | 1.1 | 1.4 | 1.6 | 2.5 | 2.5 | 2.3 | 2.1 | 1.8 | 0.5 | 2.7 | 2.9 | 3.2 | 3.1 | 3.2 | 2.0 | 19 | 21 | 21 | 21 | 18 | 16 | 25 |
| 134 | Private - Dwelling | - | - | 0.2 | 0.4 | 0.9 | 1.1 | 1.4 | 1.6 | 2.4 | 2.4 | 2.2 | 2.0 | 1.7 | 0.4 | 2.6 | 2.9 | 3.1 | 3.0 | 3.1 | 2.0 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.2 | 0.4 | 0.8 | 1.0 | 1.3 | 1.5 | 2.3 | 2.3 | 2.1 | 1.9 | 1.7 | 0.4 | 2.5 | 2.7 | 2.9 | 2.9 | 3.0 | 1.9 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| 141 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.3 | 1.6 | 2.0 | 2.3 | 1.6 | 1.6 | 1.3 | 1.1 | 0.9 | 0.2 | 1.9 | 2.3 | 2.6 | 2.7 | 3.0 | 2.6 | 19 | 20 | 20 | 20 | 19 | 17 | 25 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 0.9 | 1.9 | 2.6 | 3.8 | 4.6 | 2.7 | 2.8 | 1.8 | 1.4 | 1.1 | 0.3 | 3.1 | 3.7 | 3.7 | 4.0 | 4.9 | 4.9 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.1 | 2.8 | 4.0 | 4.8 | 2.2 | 2.3 | 1.5 | 1.2 | 1.0 | 0.3 | 2.6 | 3.2 | 3.6 | 4.1 | 5.0 | 5.1 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.1 | 2.8 | 3.9 | 4.8 | 2.2 | 2.3 | 1.5 | 1.3 | 1.0 | 0.3 | 2.6 | 3.3 | 3.6 | 4.1 | 4.9 | 5.0 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.2 | 2.9 | 4.0 | 4.8 | 1.9 | 2.0 | 1.4 | 1.1 | 0.9 | 0.3 | 2.4 | 3.0 | 3.5 | 4.0 | 4.9 | 5.1 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 167 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 1.9 | 2.1 | 1.5 | 1.5 | 1.2 | 1.0 | 0.9 | 0.2 | 1.8 | 2.1 | 2.4 | 2.5 | 2.8 | 2.3 | 18 | 19 | 20 | 20 | 18 | 16 | 25 |
| 169 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.2 | 1.4 | 1.8 | 2.0 | 1.9 | 1.9 | 1.5 | 1.3 | 1.1 | 0.3 | 2.1 | 2.4 | 2.7 | 2.7 | 2.9 | 2.3 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| 170 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.2 | 1.4 | 1.8 | 2.0 | 1.7 | 1.7 | 1.3 | 1.2 | 1.0 | 0.2 | 1.9 | 2.3 | 2.5 | 2.6 | 2.8 | 2.3 | 19 | 19 | 20 | 20 | 18 | 16 | 25 |
| 173 | Private - Dwelling | - | - | 0.2 | 0.5 | 0.9 | 1.2 | 1.5 | 1.7 | 2.1 | 2.1 | 1.8 | 1.6 | 1.4 | 0.3 | 2.3 | 2.6 | 2.8 | 2.8 | 2.9 | 2.0 | 19 | 20 | 20 | 20 | 18 | 16 | 25 |
| 174 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.5 | 1.7 | 1.9 | 1.9 | 1.6 | 1.4 | 1.2 | 0.3 | 2.1 | 2.4 | 2.6 | 2.6 | 2.8 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 175 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.6 | 1.8 | 1.8 | 1.9 | 1.6 | 1.4 | 1.2 | 0.3 | 2.1 | 2.4 | 2.6 | 2.6 | 2.8 | 2.1 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 176 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.6 | 1.8 | 1.7 | 1.7 | 1.4 | 1.2 | 1.1 | 0.3 | 1.9 | 2.2 | 2.4 | 2.5 | 2.6 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 178 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.5 | 1.7 | 1.4 | 1.3 | 1.1 | 1.0 | 0.9 | 0.2 | 1.6 | 1.9 | 2.1 | 2.2 | 2.4 | 1.9 | 18 | 18 | 19 | 19 | 18 | 16 | 25 |
| 179 | Private - Dwelling | - | - | 0.2 | 0.5 | 0.9 | 1.1 | 1.4 | 1.6 | 1.4 | 1.3 | 1.1 | 1.0 | 0.9 | 0.2 | 1.6 | 1.8 | 2.1 | 2.1 | 2.3 | 1.8 | 17 | 18 | 18 | 18 | 17 | 16 | 25 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.0 | 2.6 | 3.5 | 4.1 | 1.8 | 1.8 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 2.8 | 3.3 | 3.7 | 4.3 | 4.3 | 20 | 21 | 22 | 22 | 20 | 19 | 25 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.1 | 2.7 | 3.5 | 4.2 | 1.8 | 1.9 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 2.8 | 3.4 | 3.8 | 4.4 | 4.5 | 20 | 21 | 22 | 22 | 20 | 19 | 25 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.5 | 1.0 | 2.1 | 2.7 | 3.6 | 4.3 | 1.7 | 1.7 | 1.2 | 1.0 | 0.8 | 0.2 | 2.1 | 2.7 | 3.3 | 3.8 | 4.4 | 4.5 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.5 | 1.0 | 2.2 | 2.7 | 3.5 | 4.2 | 1.6 | 1.6 | 1.2 | 1.0 | 0.8 | 0.2 | 2.1 | 2.7 | 3.3 | 3.7 | 4.4 | 4.4 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 248 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.5 | 1.7 | 1.7 | 1.7 | 1.5 | 1.3 | 1.1 | 0.3 | 1.9 | 2.2 | 2.4 | 2.5 | 2.6 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 249 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.6 | 1.7 | 1.5 | 1.5 | 1.2 | 1.1 | 0.9 | 0.2 | 1.7 | 2.0 | 2.3 | 2.3 | 2.5 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 250 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.2 | 1.4 | 1.6 | 1.0 | 1.0 | 0.8 | 0.8 | 0.7 | 0.2 | 1.3 | 1.5 | 1.9 | 1.9 | 2.1 | 1.7 | 17 | 18 | 18 | 18 | 17 | 16 | 25 |
| 251 | Private - Dwelling | - | - | 0.2 | 0.4 | 0.9 | 1.0 | 1.3 | 1.4 | 1.1 | 1.1 | 0.9 | 0.8 | 0.7 | 0.2 | 1.3 | 1.5 | 1.8 | 1.9 | 2.0 | 1.6 | 17 | 18 | 18 | 18 | 17 | 16 | 25 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0.5 | 1.1 | 2.3 | 3.0 | 4.2 | 5.1 | 1.8 | 1.9 | 1.3 | 1.1 | 0.9 | 0.2 | 2.3 | 2.9 | 3.6 | 4.1 | 5.1 | 5.3 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 1.0 | 2.2 | 2.9 | 4.0 | 4.8 | 1.9 | 2.0 | 1.3 | 1.1 | 0.9 | 0.3 | 2.3 | 3.0 | 3.5 | 4.0 | 4.9 | 5.1 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 0.9 | 2.0 | 2.7 | 3.7 | 4.5 | 2.3 | 2.4 | 1.6 | 1.3 | 1.0 | 0.3 | 2.7 | 3.3 | 3.6 | 4.0 | 4.8 | 4.8 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.4 | 0.9 | 1.9 | 2.6 | 3.7 | 4.5 | 2.6 | 2.7 | 1.7 | 1.4 | 1.1 | 0.3 | 3.0 | 3.6 | 3.7 | 4.0 | 4.8 | 4.8 | 20 | 22 | 22 | 22 | 21 | 19 | 25 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.1 | 0.3 | 0.6 | 0.8 | 1.0 | 1.1 | 2.3 | 2.1 | 2.2 | 2.2 | 2.0 | 0.6 | 2.4 | 2.4 | 2.8 | 3.0 | 3.0 | 1.7 | 20 | 22 | 22 | 22 | 18 | 16 | 25 |
| 264 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.8 | 2.5 | 1.7 | 2.3 | 3.0 | 2.8 | 0.9 | 2.6 | 2.0 | 2.8 | 3.6 | 3.6 | 1.7 | 26 | 37 | 36 | 35 | 20 | 16 | 25 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | 15 | 16 | 16 | 16 | 15 | 14 | 25 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.2 | 0.4 | 0.9 | 1.2 | 1.7 | 1.6 | 3.3 | 1.9 | 2.3 | 2.8 | 3.9 | 1.2 | 3.5 | 2.3 | 3.2 | 3.9 | 5.5 | 2.9 | 20 | 24 | 23 | 27 | 23 | 17 | 25 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.2 | 0.4 | 0.9 | 1.1 | 1.5 | 1.5 | 2.8 | 1.6 | 2.0 | 2.4 | 3.3 | 1.0 | 3.0 | 2.0 | 2.9 | 3.5 | 4.8 | 2.5 | 20 | 22 | 22 | 26 | 22 | 17 | 25 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0.2 | 0.5 | 1.0 | 1.3 | 2.0 | 2.0 | 3.6 | 2.3 | 2.6 | 3.0 | 4.1 | 1.3 | 3.8 | 2.8 | 3.7 | 4.3 | 6.1 | 3.3 | 20 | 22 | 22 | 24 | 22 | 17 | 25 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0.2 | 0.5 | 1.0 | 1.3 | 2.0 | 2.0 | 3.6 | 2.3 | 2.6 | 3.0 | 4.1 | 1.3 | 3.8 | 2.8 | 3.7 | 4.3 | 6.1 | 3.3 | 20 | 22 | 22 | 24 | 22 | 17 | 25 |
| 321 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.2 | 1.4 | 2.1 | 2.0 | 3.0 | 2.0 | 2.3 | 2.5 | 3.3 | 1.0 | 3.2 | 2.6 | 3.4 | 3.9 | 5.3 | 3.0 | 19 | 20 | 20 | 22 | 21 | 17 | 25 |
| 322 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.8 | 1.9 | 2.1 | 2.3 | 3.0 | 0.9 | 3.0 | 2.5 | 3.3 | 3.7 | 5.0 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 324 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.2 | 1.4 | 2.0 | 2.0 | 2.9 | 2.0 | 2.1 | 2.4 | 3.1 | 0.9 | 3.1 | 2.5 | 3.3 | 3.8 | 5.1 | 2.9 | 19 | 20 | 20 | 21 | 20 | 17 | 25 |
| 326 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.7 | 2.0 | 3.1 | 2.9 | 2.5 | 1.8 | 1.9 | 2.0 | 2.5 | 0.8 | 2.8 | 2.6 | 3.6 | 4.0 | 5.6 | 3.7 | 18 | 19 | 20 | 20 | 21 | 18 | 25 |
| 327 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.8 | 2.1 | 3.2 | 3.0 | 2.5 | 1.8 | 1.9 | 2.0 | 2.5 | 0.8 | 2.8 | 2.6 | 3.7 | 4.1 | 5.7 | 3.8 | 18 | 18 | 20 | 20 | 21 | 18 | 25 |
| 328 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.7 | 2.0 | 3.1 | 2.9 | 2.7 | 1.9 | 2.1 | 2.2 | 2.8 | 0.8 | 3.0 | 2.7 | 3.7 | 4.2 | 5.9 | 3.8 | 18 | 19 | 20 | 20 | 21 | 18 | 25 |
| 330 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.6 | 1.8 | 2.7 | 2.5 | 2.5 | 1.7 | 1.9 | 2.0 | 2.5 | 0.8 | 2.8 | 2.5 | 3.4 | 3.8 | 5.2 | 3.3 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 331 | Community Infrastructure | - | - | 0.3 | 0.7 | 1.6 | 1.8 | 2.8 | 2.7 | 2.7 | 1.9 | 2.0 | 2.2 | 2.7 | 0.8 | 3.0 | 2.6 | 3.6 | 4.0 | 5.6 | 3.5 | 18 | 19 | 20 | 20 | 21 | 18 | 25 |
| 332 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.5 | 1.6 | 2.5 | 2.3 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.8 | 2.4 | 3.3 | 3.7 | 5.0 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 333 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.5 | 1.6 | 2.4 | 2.3 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.7 | 2.7 | 2.4 | 3.3 | 3.6 | 4.9 | 3.0 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 334 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.4 | 1.6 | 2.3 | 2.2 | 2.3 | 1.6 | 1.8 | 1.9 | 2.4 | 0.7 | 2.6 | 2.3 | 3.2 | 3.5 | 4.7 | 2.9 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 335 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.4 | 1.6 | 2.4 | 2.2 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.7 | 2.7 | 2.4 | 3.3 | 3.6 | 4.8 | 3.0 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 336 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.5 | 1.7 | 2.6 | 2.4 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 337 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 338 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.5 | 2.4 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 339 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.0 | 1.9 | 2.2 | 1.5 | 1.7 | 1.8 | 2.3 | 0.7 | 2.5 | 2.2 | 3.0 | 3.2 | 4.2 | 2.6 | 18 | 18 | 19 | 20 | 19 | 17 | 25 |
| 340 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.0 | 1.9 | 2.2 | 1.6 | 1.7 | 1.8 | 2.3 | 0.7 | 2.5 | 2.2 | 3.0 | 3.3 | 4.3 | 2.6 | 18 | 18 | 19 | 20 | 19 | 17 | 25 |
| 341 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.0 | 2.0 | 2.3 | 1.6 | 1.7 | 1.9 | 2.4 | 0.7 | 2.5 | 2.2 | 3.0 | 3.3 | 4.4 | 2.7 | 18 | 18 | 19 | 20 | 19 | 17 | 25 |
| 342 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.1 | 2.0 | 2.3 | 1.6 | 1.8 | 1.9 | 2.4 | 0.7 | 2.6 | 2.2 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 18 | 19 | 20 | 19 | 17 | 25 |
| 343 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.1 | 2.0 | 2.3 | 1.6 | 1.8 | 1.9 | 2.4 | 0.7 | 2.6 | 2.3 | 3.1 | 3.4 | 4.5 | 2.8 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 344 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.1 | 2.1 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.7 | 2.6 | 2.3 | 3.1 | 3.4 | 4.6 | 2.8 | 18 | 18 | 19 | 20 | 20 | 17 | 25 |
| 345 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.2 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 346 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.7 | 1.9 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.2 | 3.5 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 347 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.5 | 3.4 | 3.7 | 5.1 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 348 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 349 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.3 | 2.3 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.3 | 3.6 | 5.0 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 350 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.3 | 2.2 | 2.6 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.3 | 3.6 | 5.0 | 3.0 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 351 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.5 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 352 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 2.0 | 2.2 | 2.7 | 0.8 | 2.9 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 353 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.5 | 2.4 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 355 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.4 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 356 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 357 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.3 | 3.6 | 5.0 | 3.0 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 358 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.3 | 3.6 | 5.0 | 3.0 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 359 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.7 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.5 | 3.4 | 3.7 | 5.1 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 360 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.8 | 3.0 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 361 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.5 | 2.4 | 2.7 | 1.9 | 2.1 | 2.2 | 2.8 | 0.9 | 3.0 | 2.5 | 3.4 | 3.8 | 5.3 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 362 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.7 | 1.9 | 2.1 | 2.2 | 2.9 | 0.9 | 3.0 | 2.5 | 3.4 | 3.8 | 5.3 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 363 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 3.0 | 2.5 | 3.4 | 3.8 | 5.2 | 3.2 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 366 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 2.0 | 2.2 | 2.7 | 0.8 | 2.9 | 2.5 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 367 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 3.0 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |

**Modelled annual average PM10 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 369 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.5 | 3.3 | 3.7 | 5.1 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 370 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 371 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 372 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.6 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 373 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 374 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.1 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.5 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 375 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.1 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.5 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 376 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.2 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.5 | 3.3 | 3.7 | 5.1 | 3.0 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 377 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 3.0 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 380 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.3 | 3.2 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 381 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.2 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 382 | Community Infrastructure | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.2 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 383 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.1 | 2.6 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 384 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.6 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 385 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.3 | 3.2 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 386 | Community Infrastructure | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 1.9 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 389 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.1 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 390 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.1 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.6 | 4.9 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 391 | Private - Commercial | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.1 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.6 | 4.9 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 392 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.6 | 4.9 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 393 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.7 | 1.9 | 2.0 | 2.2 | 2.9 | 0.9 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 394 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.6 | 4.9 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 395 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.8 | 1.9 | 2.1 | 2.3 | 2.9 | 0.9 | 3.0 | 2.5 | 3.3 | 3.7 | 5.1 | 3.0 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 396 | Community Infrastructure | - | - | 0.2 | 0.5 | 1.1 | 1.3 | 1.9 | 1.8 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.7 | 2.2 | 3.0 | 3.3 | 4.5 | 2.6 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 397 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.5 | 4.8 | 2.8 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 398 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.2 | 1.3 | 1.9 | 1.9 | 2.5 | 1.7 | 1.9 | 2.1 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.6 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 399 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 400 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 401 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 402 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 403 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 404 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 1.9 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.3 | 3.1 | 3.4 | 4.6 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 405 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.8 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 406 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.0 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 407 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 1.9 | 1.9 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 408 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.2 | 1.3 | 1.9 | 1.9 | 2.4 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.0 | 3.4 | 4.5 | 2.6 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 409 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 1.9 | 1.9 | 2.4 | 1.7 | 1.8 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 410 | Community Infrastructure | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 1.9 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 411 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 1.9 | 2.4 | 1.7 | 1.8 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 412 | Community Infrastructure | - | - | 0.2 | 0.6 | 1.2 | 1.3 | 1.9 | 1.8 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.6 | 2.2 | 3.0 | 3.3 | 4.4 | 2.6 | 18 | 19 | 19 | 20 | 19 | 17 | 25 |
| 413 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.3 | 1.9 | 1.8 | 2.4 | 1.6 | 1.8 | 2.0 | 2.5 | 0.8 | 2.6 | 2.2 | 3.0 | 3.3 | 4.4 | 2.6 | 18 | 19 | 19 | 20 | 19 | 17 | 25 |
| 414 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.3 | 1.9 | 1.8 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.6 | 2.2 | 3.0 | 3.3 | 4.4 | 2.6 | 18 | 19 | 19 | 20 | 19 | 17 | 25 |
| 415 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.3 | 1.9 | 1.8 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.6 | 2.2 | 3.0 | 3.3 | 4.4 | 2.6 | 18 | 19 | 19 | 20 | 19 | 17 | 25 |
| 417 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 418 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.4 | 2.0 | 2.0 | 2.4 | 1.7 | 1.8 | 2.0 | 2.5 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 419 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.3 | 1.8 | 1.7 | 2.2 | 1.6 | 1.7 | 1.9 | 2.4 | 0.7 | 2.5 | 2.1 | 2.9 | 3.1 | 4.1 | 2.4 | 18 | 18 | 19 | 20 | 19 | 16 | 25 |
| 420 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.3 | 1.9 | 1.9 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.5 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 421 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.2 | 2.7 | 1.9 | 2.1 | 2.2 | 2.9 | 0.9 | 3.0 | 2.5 | 3.3 | 3.7 | 5.1 | 3.0 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 422 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.7 | 1.8 | 2.0 | 2.2 | 2.8 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 3.0 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 423 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.1 | 2.7 | 1.9 | 2.0 | 2.2 | 2.8 | 0.9 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 425 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.0 | 1.1 | 1.4 | 1.3 | 1.8 | 1.3 | 1.4 | 1.5 | 1.9 | 0.6 | 2.0 | 1.7 | 2.3 | 2.5 | 3.3 | 1.9 | 17 | 18 | 18 | 19 | 18 | 16 | 25 |
| 426 | Private - Dwelling | - | - | 0.2 | 0.4 | 0.9 | 1.0 | 1.3 | 1.3 | 1.8 | 1.3 | 1.4 | 1.5 | 2.0 | 0.6 | 2.0 | 1.7 | 2.3 | 2.5 | 3.3 | 1.9 | 17 | 18 | 18 | 19 | 18 | 16 | 25 |
| 427 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.2 | 1.6 | 1.5 | 2.2 | 1.5 | 1.6 | 1.8 | 2.3 | 0.7 | 2.4 | 2.0 | 2.7 | 3.0 | 3.9 | 2.2 | 18 | 18 | 19 | 20 | 19 | 16 | 25 |
| 428 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.2 | 1.6 | 1.6 | 2.2 | 1.5 | 1.7 | 1.9 | 2.4 | 0.7 | 2.4 | 2.0 | 2.8 | 3.1 | 4.0 | 2.3 | 18 | 18 | 19 | 20 | 19 | 16 | 25 |
| 429 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.2 | 1.3 | 1.9 | 1.8 | 2.6 | 1.8 | 2.0 | 2.2 | 2.8 | 0.9 | 2.8 | 2.3 | 3.1 | 3.5 | 4.7 | 2.7 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 430 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.2 | 1.7 | 1.7 | 2.3 | 1.6 | 1.8 | 2.0 | 2.5 | 0.8 | 2.5 | 2.1 | 2.9 | 3.2 | 4.2 | 2.4 | 18 | 19 | 19 | 20 | 19 | 16 | 25 |
| 431 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.3 | 1.9 | 1.9 | 2.7 | 1.9 | 2.0 | 2.3 | 2.9 | 0.9 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.7 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 432 | Private - Dwelling | - | - | 0.2 | 0.4 | 0.9 | 1.1 | 1.4 | 1.4 | 2.2 | 1.5 | 1.7 | 1.9 | 2.4 | 0.7 | 2.4 | 1.9 | 2.6 | 2.9 | 3.9 | 2.1 | 18 | 19 | 19 | 20 | 19 | 16 | 25 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.2 | 0.4 | 0.8 | 0.9 | 1.3 | 1.3 | 2.1 | 1.4 | 1.6 | 1.8 | 2.3 | 0.7 | 2.3 | 1.8 | 2.4 | 2.7 | 3.7 | 2.0 | 18 | 19 | 19 | 20 | 19 | 16 | 25 |
| 434 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.4 | 2.2 | 2.2 | 3.6 | 2.3 | 2.6 | 3.0 | 4.0 | 1.2 | 3.8 | 2.9 | 3.8 | 4.4 | 6.2 | 3.4 | 20 | 21 | 21 | 23 | 22 | 17 | 25 |
| 436 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.3 | 2.0 | 1.9 | 3.2 | 2.1 | 2.4 | 2.7 | 3.7 | 1.1 | 3.4 | 2.6 | 3.5 | 4.0 | 5.6 | 3.1 | 19 | 21 | 21 | 23 | 22 | 17 | 25 |
| 437 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.9 | 2.1 | 3.2 | 3.0 | 2.4 | 1.7 | 1.8 | 2.0 | 2.4 | 0.7 | 2.8 | 2.6 | 3.7 | 4.1 | 5.7 | 3.8 | 18 | 18 | 19 | 20 | 21 | 18 | 25 |
| 438 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.7 | 1.9 | 2.9 | 2.7 | 2.1 | 1.5 | 1.6 | 1.7 | 2.0 | 0.6 | 2.4 | 2.3 | 3.3 | 3.6 | 4.9 | 3.3 | 17 | 18 | 19 | 19 | 20 | 17 | 25 |
| 440 | Private - Dwelling | - | - | 0.2 | 0.4 | 1.0 | 1.2 | 1.8 | 1.8 | 3.0 | 2.0 | 2.2 | 2.5 | 3.4 | 1.0 | 3.2 | 2.4 | 3.2 | 3.7 | 5.1 | 2.8 | 19 | 20 | 21 | 22 | 21 | 17 | 25 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.3 | 0.6 | 0.7 | 0.9 | 0.9 | 1.2 | 0.8 | 0.9 | 1.1 | 1.4 | 0.4 | 1.4 | 1.1 | 1.5 | 1.8 | 2.2 | 1.3 | 18 | 18 | 18 | 19 | 18 | 15 | 25 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.3 | 0.6 | 0.7 | 0.9 | 0.9 | 1.4 | 0.9 | 1.0 | 1.2 | 1.5 | 0.5 | 1.5 | 1.1 | 1.6 | 1.9 | 2.4 | 1.4 | 18 | 18 | 18 | 19 | 18 | 15 | 25 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 0.8 | 0.9 | 1.2 | 0.4 | 1.2 | 0.9 | 1.3 | 1.5 | 1.9 | 1.1 | 17 | 18 | 18 | 19 | 17 | 15 | 25 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.7 | 0.7 | 1.0 | 0.6 | 0.8 | 0.9 | 1.1 | 0.3 | 1.1 | 0.9 | 1.3 | 1.5 | 1.8 | 1.1 | 18 | 18 | 18 | 19 | 17 | 15 | 25 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.7 | 0.7 | 0.9 | 0.6 | 0.7 | 0.8 | 0.9 | 0.3 | 1.0 | 0.8 | 1.1 | 1.3 | 1.6 | 1.0 | 17 | 18 | 18 | 19 | 17 | 15 | 25 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.5 | 0.5 | 0.6 | 0.7 | 0.2 | 0.8 | 0.7 | 1.0 | 1.1 | 1.3 | 0.8 | 17 | 17 | 17 | 18 | 16 | 15 | 25 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.6 | 0.7 | 0.2 | 0.7 | 0.6 | 0.9 | 1.0 | 1.2 | 0.8 | 17 | 17 | 17 | 18 | 16 | 15 | 25 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.8 | 0.2 | 0.8 | 0.7 | 1.0 | 1.1 | 1.4 | 0.8 | 17 | 17 | 17 | 18 | 16 | 15 | 25 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.7 | 0.7 | 1.0 | 0.7 | 0.8 | 0.9 | 1.1 | 0.3 | 1.1 | 0.9 | 1.3 | 1.5 | 1.9 | 1.1 | 17 | 17 | 18 | 18 | 17 | 15 | 25 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.7 | 0.7 | 1.0 | 0.6 | 0.7 | 0.8 | 1.0 | 0.3 | 1.1 | 0.9 | 1.2 | 1.4 | 1.7 | 1.0 | 17 | 17 | 17 | 18 | 17 | 15 | 25 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.7 | 0.6 | 0.8 | 0.6 | 0.7 | 0.8 | 0.9 | 0.3 | 0.9 | 0.8 | 1.1 | 1.3 | 1.6 | 0.9 | 17 | 17 | 17 | 18 | 17 | 15 | 25 |
| 463 | Glencore Owned - Occupied | - | - | 0.2 | 0.4 | 0.9 | 1.2 | 1.7 | 1.7 | 3.4 | 2.0 | 2.4 | 2.9 | 4.0 | 1.2 | 3.6 | 2.4 | 3.4 | 4.1 | 5.7 | 3.0 | 20 | 23 | 23 | 26 | 23 | 17 | 25 |
| 464 | Private - Dwelling | - | - | 0.2 | 0.4 | 0.8 | 0.8 | 1.1 | 1.0 | 1.4 | 1.0 | 1.1 | 1.2 | 1.6 | 0.5 | 1.6 | 1.4 | 1.9 | 2.1 | 2.6 | 1.5 | 17 | 17 | 18 | 18 | 17 | 16 | 25 |
| 466 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.1 | 1.5 | 1.4 | 1.7 | 1.2 | 1.3 | 1.4 | 1.7 | 0.5 | 1.9 | 1.7 | 2.4 | 2.5 | 3.2 | 2.0 | 17 | 17 | 18 | 19 | 18 | 16 | 25 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 1.2 | 2.4 | 4.5 | 4.7 | 4.0 | 4.5 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.1 | 2.1 | 3.2 | 5.2 | 5.3 | 4.4 | 4.7 | 26 | 28 | 30 | 29 | 26 | 19 | 25 |
| 472 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.1 | 0.5 | 0.5 | 0.7 | 0.7 | 0.9 | 0.5 | 15 | 15 | 15 | 16 | 15 | 15 | 25 |
| 473 | Private - Commercial | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.0 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.1 | 0.5 | 0.5 | 0.7 | 0.7 | 0.9 | 0.6 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.3 | 0.5 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 0.8 | 1.0 | 1.2 | 0.4 | 1.2 | 1.0 | 1.4 | 1.6 | 2.0 | 1.2 | 17 | 18 | 18 | 19 | 17 | 15 | 25 |
| 481 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.2 | 1.6 | 1.5 | 2.2 | 1.5 | 1.7 | 1.8 | 2.4 | 0.7 | 2.4 | 2.0 | 2.7 | 3.0 | 3.9 | 2.2 | 18 | 18 | 19 | 20 | 19 | 16 | 25 |
| 482 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.6 | 1.8 | 2.0 | 2.2 | 2.7 | 0.8 | 2.9 | 2.5 | 3.4 | 3.7 | 5.1 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 483 | Community Infrastructure | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.3 | 2.2 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.9 | 3.0 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 484 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.4 | 2.3 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.3 | 3.7 | 5.0 | 3.1 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 487 | Private - Dwelling | - | - | 0.3 | 0.8 | 1.8 | 2.1 | 3.1 | 2.9 | 2.2 | 1.6 | 1.7 | 1.8 | 2.2 | 0.6 | 2.5 | 2.4 | 3.5 | 3.9 | 5.3 | 3.6 | 17 | 18 | 19 | 20 | 20 | 18 | 25 |
| 488 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.5 | 1.7 | 2.6 | 2.4 | 1.9 | 1.4 | 1.4 | 1.5 | 1.8 | 0.5 | 2.1 | 2.1 | 3.0 | 3.3 | 4.4 | 2.9 | 17 | 18 | 18 | 19 | 19 | 17 | 25 |
| 489 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.5 | 1.7 | 2.5 | 2.4 | 1.9 | 1.4 | 1.5 | 1.5 | 1.9 | 0.6 | 2.2 | 2.1 | 3.0 | 3.3 | 4.4 | 2.9 | 17 | 18 | 18 | 19 | 19 | 17 | 25 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0.5 | 1.1 | 2.4 | 3.1 | 4.2 | 5.2 | 1.7 | 1.7 | 1.2 | 1.1 | 0.8 | 0.2 | 2.2 | 2.8 | 3.6 | 4.2 | 5.1 | 5.4 | 19 | 21 | 22 | 22 | 21 | 20 | 25 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0.4 | 1.0 | 2.1 | 2.7 | 3.5 | 4.2 | 1.8 | 1.8 | 1.2 | 1.1 | 0.9 | 0.2 | 2.2 | 2.8 | 3.3 | 3.7 | 4.4 | 4.5 | 20 | 21 | 22 | 22 | 21 | 19 | 25 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 1.2 | 2.2 | 4.0 | 4.0 | 3.1 | 3.4 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.1 | 1.8 | 2.9 | 4.5 | 4.5 | 3.5 | 3.5 | 25 | 27 | 28 | 28 | 25 | 18 | 25 |
| 507 | Community Infrastructure | - | - | 0.3 | 0.5 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 21 | 31 | 31 | 32 | 18 | 16 | 25 |
| 511 | Community Infrastructure | - | - | 0.2 | 0.4 | 0.6 | 0.5 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.7 | 0.6 | 0.5 | 0.4 | 20 | 24 | 24 | 25 | 17 | 16 | 25 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0.3 | 0.5 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.9 | 0.7 | 0.5 | 0.5 | 21 | 27 | 27 | 28 | 18 | 17 | 25 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0.7 | 1.2 | 1.8 | 1.5 | 1.0 | 0.9 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.9 | 1.4 | 2.0 | 1.7 | 1.1 | 1.0 | 28 | 50 | 50 | 49 | 21 | 16 | 25 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.8 | 0.7 | 0.5 | 0.4 | 21 | 27 | 27 | 28 | 18 | 17 | 25 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 22 | 29 | 29 | 30 | 19 | 17 | 25 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 22 | 29 | 29 | 30 | 19 | 17 | 25 |
| 614 | Private - Dwelling | - | - | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 22 | 29 | 29 | 30 | 19 | 17 | 25 |

**Modelled annual average PM10 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.1 | 1.8 | 2.8 | 2.3 | 1.4 | 1.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 1.4 | 2.1 | 3.1 | 2.6 | 1.6 | 1.4 | 29 | 32 | 33 | 31 | 23 | 16 | 25 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 1.2 | 2.1 | 3.4 | 3.0 | 2.0 | 2.0 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 1.6 | 2.5 | 3.7 | 3.3 | 2.3 | 2.1 | 31 | 35 | 36 | 35 | 28 | 17 | 25 |
| 623 | Community Infrastructure | - | - | 1.4 | 2.3 | 3.6 | 3.0 | 1.9 | 1.8 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 1.8 | 2.7 | 4.0 | 3.4 | 2.1 | 1.9 | 29 | 31 | 32 | 31 | 25 | 17 | 25 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 1.3 | 2.2 | 3.5 | 2.9 | 1.8 | 1.7 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 1.7 | 2.6 | 3.8 | 3.2 | 2.0 | 1.8 | 29 | 32 | 33 | 31 | 25 | 17 | 25 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 1.3 | 2.1 | 3.4 | 2.8 | 1.7 | 1.6 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 1.7 | 2.5 | 3.7 | 3.1 | 1.9 | 1.7 | 30 | 33 | 34 | 32 | 25 | 17 | 25 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.2 | 2.0 | 3.2 | 2.6 | 1.6 | 1.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 1.6 | 2.4 | 3.5 | 2.9 | 1.8 | 1.6 | 30 | 32 | 34 | 32 | 24 | 17 | 25 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 1.2 | 2.0 | 3.1 | 2.5 | 1.5 | 1.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 1.6 | 2.3 | 3.4 | 2.8 | 1.8 | 1.5 | 30 | 32 | 33 | 31 | 24 | 16 | 25 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 1.2 | 1.9 | 2.9 | 2.4 | 1.5 | 1.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 1.5 | 2.2 | 3.2 | 2.6 | 1.7 | 1.5 | 30 | 32 | 33 | 31 | 24 | 16 | 25 |
| 735 | Private - Commercial | - | - | 1.2 | 1.9 | 2.8 | 2.2 | 1.4 | 1.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.1 | 1.7 | 2.3 | 3.1 | 2.5 | 1.7 | 1.5 | 38 | 47 | 48 | 35 | 26 | 18 | 25 |
| 797 | Community Infrastructure | - | - | 1.4 | 2.1 | 3.2 | 2.4 | 1.6 | 1.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 1.9 | 2.6 | 3.5 | 2.8 | 1.8 | 1.6 | 40 | 46 | 47 | 36 | 27 | 18 | 25 |
| 799 | Community Infrastructure | - | - | 1.4 | 2.1 | 3.2 | 2.4 | 1.6 | 1.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 1.9 | 2.6 | 3.5 | 2.8 | 1.8 | 1.6 | 40 | 46 | 47 | 36 | 27 | 18 | 25 |
| 800 | Private - Commercial | - | - | 1.4 | 2.1 | 3.2 | 2.4 | 1.6 | 1.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 1.9 | 2.6 | 3.5 | 2.8 | 1.8 | 1.6 | 40 | 46 | 47 | 36 | 27 | 18 | 25 |
| 829 | Private - Commercial | - | - | 0.1 | 0.3 | 0.7 | 0.8 | 1.1 | 1.2 | 2.8 | 2.4 | 2.7 | 2.7 | 2.5 | 0.7 | 2.9 | 2.8 | 3.4 | 3.5 | 3.6 | 1.9 | 22 | 25 | 25 | 25 | 19 | 16 | 25 |
| 830 | Private - Commercial | - | - | 0.1 | 0.3 | 0.6 | 0.7 | 0.9 | 1.0 | 2.5 | 2.1 | 2.4 | 2.6 | 2.4 | 0.7 | 2.7 | 2.3 | 3.0 | 3.3 | 3.3 | 1.8 | 24 | 28 | 29 | 29 | 18 | 16 | 25 |
| 833 | Private - Commercial | - | - | 0.2 | 0.4 | 0.8 | 1.1 | 1.7 | 2.0 | 13.0 | 9.6 | 14.9 | 14.5 | 14.5 | 4.3 | 13.2 | 10.0 | 15.8 | 15.6 | 16.2 | 6.3 | 32 | 37 | 41 | 39 | 32 | 20 | 25 |
| 834 | Private - Commercial | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.1 | 2.1 | 2.7 | 1.9 | 2.0 | 2.2 | 2.9 | 0.9 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 2.9 | 18 | 19 | 20 | 21 | 20 | 17 | 25 |
| 835 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.4 | 1.6 | 2.3 | 2.2 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.3 | 3.7 | 5.0 | 3.1 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 836 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.7 | 1.9 | 2.0 | 2.6 | 0.8 | 2.7 | 2.3 | 3.2 | 3.5 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 837 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 2.2 | 2.1 | 2.5 | 1.8 | 1.9 | 2.1 | 2.6 | 0.8 | 2.8 | 2.4 | 3.2 | 3.6 | 4.8 | 2.9 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 838 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.3 | 1.4 | 2.1 | 2.1 | 2.6 | 1.8 | 2.0 | 2.1 | 2.7 | 0.8 | 2.9 | 2.4 | 3.2 | 3.6 | 4.9 | 2.9 | 18 | 19 | 20 | 20 | 20 | 17 | 25 |
| 839 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 1.9 | 2.5 | 1.7 | 1.9 | 2.1 | 2.6 | 0.8 | 2.7 | 2.3 | 3.1 | 3.4 | 4.6 | 2.7 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 840 | Private - Dwelling | - | - | 0.2 | 0.6 | 1.2 | 1.4 | 2.0 | 2.0 | 2.5 | 1.8 | 1.9 | 2.1 | 2.7 | 0.8 | 2.8 | 2.3 | 3.1 | 3.5 | 4.7 | 2.8 | 18 | 19 | 19 | 20 | 20 | 17 | 25 |
| 843 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.1 | 1.3 | 1.6 | 1.7 | 1.1 | 1.1 | 0.9 | 0.8 | 0.7 | 0.2 | 1.4 | 1.6 | 2.0 | 2.1 | 2.2 | 1.9 | 18 | 18 | 19 | 19 | 18 | 16 | 25 |
| 846 | Private - Dwelling | - | - | 0.4 | 0.7 | 1.4 | 1.6 | 1.8 | 2.0 | 0.9 | 0.9 | 0.7 | 0.6 | 0.6 | 0.1 | 1.3 | 1.6 | 2.2 | 2.3 | 2.4 | 2.2 | 19 | 20 | 20 | 21 | 19 | 16 | 25 |
| 847 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.4 | 1.6 | 1.8 | 2.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.2 | 1.3 | 1.7 | 2.2 | 2.3 | 2.4 | 2.2 | 19 | 19 | 20 | 20 | 19 | 16 | 25 |
| 852 | Private - Dwelling | - | - | 0.3 | 0.7 | 1.4 | 1.7 | 2.0 | 2.2 | 1.1 | 1.1 | 0.9 | 0.8 | 0.7 | 0.2 | 1.5 | 1.8 | 2.3 | 2.4 | 2.6 | 2.4 | 18 | 19 | 20 | 20 | 19 | 17 | 25 |
| 855 | Private - Dwelling | - | - | 0.2 | 0.5 | 0.9 | 1.2 | 1.5 | 1.7 | 1.8 | 1.9 | 1.6 | 1.4 | 1.2 | 0.3 | 2.1 | 2.3 | 2.5 | 2.6 | 2.7 | 2.0 | 18 | 19 | 19 | 19 | 18 | 16 | 25 |
| 856 | Private - Dwelling | - | - | 0.3 | 0.6 | 1.3 | 1.5 | 1.8 | 2.0 | 1.1 | 1.1 | 0.9 | 0.8 | 0.7 | 0.2 | 1.5 | 1.8 | 2.2 | 2.3 | 2.4 | 2.1 | 18 | 19 | 19 | 20 | 18 | 16 | 25 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 1.1 | 1.8 | 2.9 | 2.5 | 1.5 | 1.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 1.5 | 2.2 | 3.2 | 2.7 | 1.8 | 1.6 | 29 | 36 | 37 | 36 | 25 | 16 | 25 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.9 | 1.4 | 2.2 | 1.8 | 1.1 | 1.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 1.2 | 1.7 | 2.5 | 2.0 | 1.3 | 1.1 | 30 | 38 | 39 | 37 | 22 | 16 | 25 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.1 | 1.8 | 2.7 | 2.2 | 1.3 | 1.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 1.4 | 2.1 | 2.9 | 2.4 | 1.5 | 1.3 | 35 | 36 | 37 | 35 | 24 | 17 | 25 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 1.0 | 1.6 | 2.5 | 2.0 | 1.2 | 1.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 1.3 | 1.9 | 2.7 | 2.2 | 1.4 | 1.2 | 34 | 37 | 38 | 35 | 24 | 17 | 25 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.9 | 1.8 | 3.5 | 4.0 | 4.1 | 4.9 | 0.9 | 0.9 | 0.7 | 0.7 | 0.5 | 0.2 | 1.8 | 2.7 | 4.3 | 4.7 | 4.6 | 5.0 | 22 | 23 | 25 | 25 | 23 | 19 | 25 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.9 | 1.8 | 3.5 | 3.9 | 3.9 | 4.7 | 0.9 | 0.9 | 0.7 | 0.6 | 0.5 | 0.1 | 1.8 | 2.6 | 4.2 | 4.5 | 4.4 | 4.9 | 22 | 23 | 25 | 25 | 23 | 19 | 25 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0.5 | 1.2 | 2.5 | 3.2 | 4.3 | 5.2 | 1.5 | 1.5 | 1.1 | 1.0 | 0.8 | 0.2 | 2.0 | 2.7 | 3.6 | 4.2 | 5.1 | 5.4 | 19 | 21 | 22 | 22 | 21 | 20 | 25 |
| 949 | Private - Dwelling | - | - | 0.5 | 1.2 | 2.5 | 3.2 | 4.3 | 5.2 | 1.5 | 1.5 | 1.1 | 1.0 | 0.8 | 0.2 | 2.0 | 2.7 | 3.6 | 4.2 | 5.1 | 5.4 | 19 | 21 | 22 | 22 | 21 | 20 | 25 |
| 950 | Private - Dwelling | - | - | 0.5 | 1.2 | 2.5 | 3.2 | 4.3 | 5.2 | 1.5 | 1.5 | 1.1 | 1.0 | 0.8 | 0.2 | 2.0 | 2.7 | 3.6 | 4.2 | 5.1 | 5.4 | 19 | 21 | 22 | 22 | 21 | 20 | 25 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled maximum 24-hour average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 1.4 | 1.4 | 3.0 | 3.2 | 6.5 | 7.1 | 1.4 | 3.0 | 2.9 | 2.4 | 3.5 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 8.0 | 8.0 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| DL14 | Monitor | - | - | 1.9 | 1.9 | 3.6 | 4.2 | 4.9 | 5.8 | 1.9 | 5.5 | 3.1 | 2.6 | 2.5 | 0.8 | 5.8 | 5.5 | 4.7 | 5.2 | 6.0 | 5.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| Warkworth | Monitor | - | - | 0.5 | 0.5 | 1.0 | 1.3 | 1.6 | 2.0 | 0.5 | 4.1 | 4.6 | 6.6 | 5.6 | 2.3 | 5.4 | 4.6 | 5.7 | 7.6 | 6.9 | 3.5 | 17 | 35 | 22 | 20 | 19 | 15 | 25 |
| D118 | Monitor | - | - | 1.6 | 1.6 | 3.1 | 3.7 | 4.5 | 4.3 | 1.6 | 3.7 | 4.1 | 3.8 | 5.5 | 2.0 | 6.0 | 3.8 | 4.5 | 4.3 | 7.6 | 5.5 | 17 | 17 | 17 | 19 | 18 | 16 | 25 |
| Knodlers Lane | Monitor | - | - | 1.5 | 1.5 | 2.9 | 3.5 | 4.0 | 4.6 | 1.5 | 5.5 | 5.2 | 4.3 | 3.6 | 0.9 | 6.5 | 5.5 | 5.2 | 4.9 | 5.4 | 4.9 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| DL22 | Monitor | - | - | 1.2 | 1.2 | 2.4 | 3.1 | 4.1 | 4.8 | 1.2 | 7.9 | 6.9 | 5.7 | 4.3 | 1.1 | 8.3 | 8.3 | 7.8 | 7.2 | 6.7 | 5.5 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| DL21 | Monitor | - | - | 1.6 | 1.6 | 3.2 | 3.9 | 4.7 | 5.4 | 1.6 | 6.5 | 5.3 | 4.0 | 3.3 | 0.8 | 8.2 | 6.5 | 5.3 | 5.2 | 5.9 | 5.7 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| D122 | Monitor | - | - | 1.0 | 1.0 | 2.0 | 2.2 | 2.2 | 2.4 | 1.0 | 2.7 | 2.5 | 2.2 | 2.2 | 0.6 | 3.1 | 3.2 | 3.5 | 3.4 | 3.5 | 2.5 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| DL30 | Monitor | - | - | 0.8 | 0.8 | 1.5 | 2.0 | 2.9 | 3.5 | 0.8 | 12.8 | 13.7 | 14.2 | 11.3 | 3.3 | 12.4 | 13.6 | 15.0 | 15.6 | 13.4 | 6.1 | 20 | 24 | 25 | 23 | 18 | 15 | 25 |
| DL2 | Monitor | - | - | 2.8 | 2.8 | 5.4 | 7.0 | 9.5 | 12.0 | 2.8 | 10.4 | 6.6 | 4.8 | 3.7 | 1.0 | 9.9 | 10.8 | 8.1 | 7.4 | 10.3 | 12.4 | 17 | 18 | 19 | 19 | 18 | 16 | 25 |
| Warkworth | Monitor | - | - | 0.5 | 0.5 | 1.0 | 1.3 | 1.6 | 2.0 | 0.5 | 4.1 | 4.6 | 6.6 | 5.6 | 2.3 | 5.4 | 4.6 | 5.7 | 7.6 | 6.9 | 3.5 | 17 | 35 | 22 | 20 | 19 | 15 | 25 |
| Cheshunt East | Monitor | - | - | 3.6 | 3.6 | 6.8 | 7.7 | 9.1 | 11.0 | 3.6 | 6.3 | 4.4 | 3.5 | 2.8 | 0.8 | 6.5 | 7.5 | 7.1 | 8.3 | 9.6 | 11.1 | 19 | 20 | 22 | 22 | 22 | 16 | 25 |
| Long Point | Monitor | - | - | 0.9 | 0.9 | 1.8 | 2.0 | 2.2 | 2.5 | 0.9 | 3.1 | 3.1 | 2.9 | 2.8 | 0.8 | 3.5 | 3.5 | 4.0 | 4.0 | 4.2 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| Kilburnie South | Monitor | - | - | 1.6 | 1.6 | 3.1 | 3.7 | 4.6 | 4.3 | 1.6 | 3.7 | 4.1 | 3.8 | 5.5 | 2.0 | 6.0 | 3.9 | 4.5 | 4.4 | 7.7 | 5.5 | 17 | 17 | 17 | 19 | 18 | 16 | 25 |
| Wandewoi | Monitor | - | - | 4.0 | 4.0 | 8.5 | 10.3 | 15.1 | 24.5 | 4.0 | 6.7 | 7.5 | 6.1 | 12.2 | 5.0 | 13.0 | 7.0 | 10.1 | 11.0 | 20.2 | 26.7 | 18 | 17 | 19 | 20 | 26 | 32 | 25 |
| Howick | Monitor | - | - | 25.7 | 25.7 | 32.1 | 19.5 | 11.9 | 12.3 | 25.7 | 2.3 | 2.1 | 2.2 | 2.2 | 0.7 | 19.3 | 28.0 | 34.0 | 21.6 | 14.0 | 13.0 | 32 | 38 | 43 | 32 | 26 | 20 | 25 |
| Golden Highway | Monitor | - | - | 0.5 | 0.5 | 1.0 | 1.2 | 1.6 | 1.8 | 0.5 | 2.7 | 3.5 | 3.6 | 3.8 | 1.4 | 3.6 | 3.1 | 4.2 | 4.8 | 5.4 | 3.1 | 22 | 32 | 32 | 32 | 15 | 15 | 25 |
| HC1 Conveyor | Monitor | - | - | 40.2 | 40.2 | 68.2 | 102.5 | 30.7 | 33.8 | 40.2 | 5.2 | 4.6 | 4.2 | 3.8 | 1.0 | 15.0 | 41.4 | 68.6 | 103.6 | 32.1 | 34.3 | 25 | 55 | 88 | 126 | 50 | 40 | 25 |
| Maison Dieu | Monitor | - | - | 1.9 | 1.9 | 3.6 | 4.2 | 4.8 | 5.7 | 1.9 | 5.6 | 3.1 | 2.6 | 2.6 | 0.8 | 6.0 | 5.6 | 4.6 | 5.1 | 5.9 | 5.8 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| Warkworth | Monitor | - | - | 0.5 | 0.5 | 0.9 | 1.1 | 1.4 | 1.7 | 0.5 | 3.1 | 3.5 | 4.4 | 4.3 | 1.9 | 4.3 | 3.6 | 4.3 | 5.3 | 5.4 | 3.0 | 18 | 20 | 19 | 19 | 17 | 15 | 25 |
| Knodlers Lane | Monitor | - | - | 1.4 | 1.4 | 2.7 | 3.4 | 4.4 | 5.2 | 1.4 | 7.5 | 5.3 | 5.1 | 4.3 | 1.1 | 8.0 | 7.9 | 6.4 | 6.1 | 6.3 | 5.7 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| Jerrys Plains | Monitor | - | - | 1.6 | 1.6 | 3.1 | 3.4 | 5.4 | 5.7 | 1.6 | 1.7 | 1.6 | 1.3 | 1.8 | 0.6 | 2.5 | 2.2 | 3.7 | 4.3 | 6.5 | 6.1 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| Cheshunt East | Monitor | - | - | 3.6 | 3.6 | 6.8 | 7.7 | 9.1 | 11.0 | 3.6 | 6.3 | 4.4 | 3.5 | 2.8 | 0.8 | 6.5 | 7.5 | 7.1 | 8.3 | 9.6 | 11.1 | 19 | 20 | 22 | 22 | 22 | 16 | 25 |
| HVGC | Monitor | - | - | 0.8 | 0.8 | 1.5 | 1.9 | 2.6 | 3.2 | 0.8 | 14.3 | 16.4 | 15.6 | 15.1 | 5.6 | 15.5 | 15.1 | 17.9 | 17.5 | 17.1 | 8.0 | 22 | 27 | 30 | 27 | 22 | 15 | 25 |
| Long Point | Monitor | - | - | 0.9 | 0.9 | 1.8 | 2.0 | 2.2 | 2.5 | 0.9 | 3.1 | 3.1 | 2.9 | 2.8 | 0.8 | 3.5 | 3.5 | 4.0 | 4.0 | 4.2 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| Kilburnie South | Monitor | - | - | 1.6 | 1.6 | 3.1 | 3.7 | 4.6 | 4.3 | 1.6 | 3.7 | 4.1 | 3.8 | 5.5 | 2.0 | 6.0 | 3.9 | 4.5 | 4.4 | 7.7 | 5.6 | 17 | 17 | 17 | 19 | 18 | 16 | 25 |
| Kilburnie South | Monitor | - | - | 1.6 | 1.6 | 3.1 | 3.7 | 4.5 | 4.3 | 1.6 | 3.7 | 4.1 | 3.8 | 5.5 | 2.0 | 6.0 | 3.8 | 4.5 | 4.3 | 7.6 | 5.5 | 17 | 17 | 17 | 19 | 18 | 16 | 25 |
| Maison Dieu | Monitor | - | - | 1.9 | 1.9 | 3.6 | 4.2 | 4.8 | 5.7 | 1.9 | 5.7 | 3.2 | 2.7 | 2.6 | 0.8 | 6.2 | 5.7 | 4.6 | 5.1 | 5.9 | 5.8 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| Maison Dieu | Monitor | - | - | 1.9 | 1.9 | 3.6 | 4.2 | 4.8 | 5.7 | 1.9 | 5.6 | 3.1 | 2.6 | 2.6 | 0.8 | 6.0 | 5.6 | 4.6 | 5.1 | 5.9 | 5.8 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| Knodlers Lane | Monitor | - | - | 1.5 | 1.5 | 2.9 | 3.5 | 4.0 | 4.6 | 1.5 | 5.5 | 5.2 | 4.3 | 3.6 | 0.9 | 6.5 | 5.5 | 5.2 | 4.9 | 5.4 | 4.9 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 17 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.2 | 0.5 | 0.6 | 0.6 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 0.9 | 0.7 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 19 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.2 | 0.5 | 0.6 | 0.6 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 0.9 | 0.7 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 37 | Private - Dwelling | - | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 0.9 | 0.7 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0.5 | 0.5 | 0.9 | 1.1 | 1.4 | 1.7 | 0.5 | 3.2 | 3.7 | 4.7 | 4.5 | 2.0 | 4.5 | 3.7 | 4.5 | 5.7 | 5.7 | 3.1 | 18 | 20 | 19 | 19 | 17 | 15 | 25 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.5 | 1.5 | 2.9 | 3.5 | 4.0 | 4.6 | 1.5 | 5.5 | 5.2 | 4.3 | 3.6 | 0.9 | 6.5 | 5.5 | 5.2 | 4.9 | 5.4 | 4.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.4 | 1.4 | 2.8 | 3.3 | 4.0 | 4.6 | 1.4 | 4.6 | 5.1 | 4.8 | 3.9 | 1.0 | 5.0 | 4.7 | 5.1 | 5.1 | 5.5 | 5.0 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.6 | 1.6 | 3.0 | 3.5 | 4.0 | 4.5 | 1.6 | 5.6 | 5.1 | 4.1 | 3.4 | 0.8 | 6.8 | 5.6 | 5.1 | 4.8 | 5.3 | 4.8 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.5 | 1.5 | 2.8 | 3.4 | 3.9 | 4.5 | 1.5 | 5.0 | 5.2 | 4.6 | 3.8 | 0.9 | 5.8 | 5.0 | 5.3 | 4.9 | 5.4 | 4.8 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 1.6 | 1.6 | 3.0 | 3.5 | 3.9 | 4.5 | 1.6 | 5.6 | 5.1 | 4.0 | 3.4 | 0.8 | 6.9 | 5.6 | 5.1 | 4.7 | 5.3 | 4.7 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.7 | 0.7 | 1.4 | 1.6 | 1.9 | 2.2 | 0.7 | 2.9 | 2.8 | 2.7 | 2.6 | 1.0 | 3.4 | 3.7 | 4.2 | 4.1 | 4.1 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 127 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.5 | 2.8 | 2.9 | 3.2 | 1.3 | 3.3 | 3.2 | 3.3 | 2.8 | 0.8 | 3.6 | 3.7 | 4.0 | 4.1 | 4.2 | 3.3 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 0.8 | 1.5 | 1.8 | 2.1 | 2.4 | 0.8 | 2.8 | 3.0 | 3.1 | 3.2 | 1.0 | 3.4 | 3.6 | 4.0 | 3.9 | 4.3 | 2.8 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.9 | 0.9 | 1.7 | 1.9 | 2.2 | 2.4 | 0.9 | 3.1 | 3.2 | 3.0 | 3.0 | 0.9 | 3.6 | 3.5 | 4.1 | 4.0 | 4.3 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 134 | Private - Dwelling | - | - | 0.9 | 0.9 | 1.7 | 2.0 | 2.2 | 2.5 | 0.9 | 3.1 | 3.2 | 2.9 | 2.9 | 0.8 | 3.5 | 3.5 | 4.0 | 4.0 | 4.2 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.8 | 0.8 | 1.6 | 1.8 | 2.1 | 2.3 | 0.8 | 2.9 | 3.0 | 2.8 | 2.8 | 0.8 | 3.3 | 3.2 | 3.7 | 3.8 | 4.1 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 141 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.5 | 2.7 | 2.7 | 3.0 | 1.4 | 2.7 | 3.0 | 2.9 | 2.4 | 0.7 | 3.0 | 2.8 | 3.2 | 3.3 | 3.4 | 3.0 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.7 | 1.7 | 3.3 | 4.0 | 4.6 | 5.3 | 1.7 | 6.6 | 4.7 | 3.5 | 3.0 | 0.8 | 8.1 | 6.6 | 4.7 | 5.2 | 5.9 | 5.5 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.5 | 4.1 | 4.6 | 5.5 | 1.8 | 6.3 | 3.9 | 3.0 | 2.8 | 0.9 | 7.3 | 6.3 | 4.7 | 5.1 | 5.8 | 5.6 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.5 | 4.1 | 4.6 | 5.5 | 1.8 | 6.4 | 4.0 | 3.0 | 2.8 | 0.9 | 7.5 | 6.4 | 4.7 | 5.1 | 5.8 | 5.6 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.9 | 1.9 | 3.5 | 4.1 | 4.6 | 5.5 | 1.9 | 5.8 | 3.4 | 2.7 | 2.7 | 0.8 | 6.5 | 5.8 | 4.5 | 5.0 | 5.8 | 5.6 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 167 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.4 | 2.5 | 2.6 | 2.8 | 1.3 | 2.3 | 2.6 | 2.5 | 2.1 | 0.6 | 2.7 | 2.6 | 2.9 | 3.0 | 3.2 | 2.9 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 169 | Private - Dwelling | - | - | 1.2 | 1.2 | 2.3 | 2.5 | 2.5 | 2.8 | 1.2 | 2.8 | 2.5 | 2.3 | 2.1 | 0.6 | 3.0 | 3.1 | 3.2 | 3.2 | 3.5 | 2.9 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 170 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.4 | 2.5 | 2.5 | 2.8 | 1.3 | 2.6 | 2.3 | 2.3 | 2.0 | 0.6 | 2.9 | 2.9 | 2.9 | 3.0 | 3.4 | 2.9 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 173 | Private - Dwelling | - | - | 1.0 | 1.0 | 1.9 | 2.1 | 2.2 | 2.5 | 1.0 | 2.9 | 2.8 | 2.5 | 2.3 | 0.6 | 3.3 | 3.4 | 3.8 | 3.7 | 3.8 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 174 | Private - Dwelling | - | - | 1.1 | 1.1 | 2.0 | 2.2 | 2.2 | 2.4 | 1.1 | 2.7 | 2.6 | 2.3 | 2.2 | 0.6 | 3.1 | 3.3 | 3.5 | 3.5 | 3.6 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 175 | Private - Dwelling | - | - | 1.1 | 1.1 | 2.1 | 2.2 | 2.3 | 2.5 | 1.1 | 2.6 | 2.5 | 2.2 | 2.1 | 0.6 | 3.0 | 3.2 | 3.4 | 3.3 | 3.4 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 176 | Private - Dwelling | - | - | 1.1 | 1.1 | 2.1 | 2.2 | 2.3 | 2.6 | 1.1 | 2.6 | 2.3 | 2.0 | 1.9 | 0.5 | 2.8 | 2.9 | 3.1 | 3.0 | 3.3 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 178 | Private - Dwelling | - | - | 1.2 | 1.2 | 2.1 | 2.2 | 2.3 | 2.5 | 1.2 | 2.3 | 2.0 | 1.7 | 1.6 | 0.4 | 2.5 | 2.5 | 2.6 | 2.6 | 3.1 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 179 | Private - Dwelling | - | - | 1.1 | 1.1 | 1.9 | 2.0 | 2.2 | 2.4 | 1.1 | 2.3 | 2.0 | 1.8 | 1.7 | 0.4 | 2.4 | 2.5 | 2.7 | 2.7 | 3.1 | 2.5 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.7 | 1.7 | 3.2 | 3.7 | 4.0 | 4.7 | 1.7 | 5.5 | 3.8 | 2.8 | 2.6 | 0.8 | 6.8 | 5.5 | 4.5 | 4.6 | 5.2 | 4.7 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.3 | 3.8 | 4.1 | 4.8 | 1.8 | 5.5 | 3.7 | 2.7 | 2.5 | 0.8 | 6.7 | 5.5 | 4.4 | 4.6 | 5.3 | 4.9 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.3 | 3.8 | 4.2 | 4.8 | 1.8 | 5.3 | 3.3 | 2.5 | 2.5 | 0.8 | 6.3 | 5.3 | 4.5 | 4.6 | 5.2 | 4.9 | 16 | 16 | 17 | 17 | 16 | 15 | 25 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.3 | 3.7 | 4.1 | 4.7 | 1.8 | 5.2 | 3.3 | 2.5 | 2.5 | 0.8 | 6.3 | 5.2 | 4.6 | 4.5 | 5.1 | 4.8 | 16 | 16 | 17 | 17 | 16 | 15 | 25 |
| 248 | Private - Dwelling | - | - | 1.1 | 1.1 | 2.0 | 2.2 | 2.2 | 2.5 | 1.1 | 2.5 | 2.4 | 2.1 | 2.0 | 0.5 | 2.9 | 3.0 | 3.2 | 3.2 | 3.3 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 249 | Private - Dwelling | - | - | 1.2 | 1.2 | 2.1 | 2.2 | 2.3 | 2.6 | 1.2 | 2.5 | 2.2 | 1.8 | 1.8 | 0.5 | 2.6 | 2.7 | 2.8 | 2.8 | 3.2 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 250 | Private - Dwelling | - | - | 1.2 | 1.2 | 2.0 | 2.0 | 2.0 | 2.2 | 1.2 | 1.8 | 1.6 | 1.5 | 1.4 | 0.4 | 2.0 | 2.1 | 2.2 | 2.3 | 2.8 | 2.4 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 251 | Private - Dwelling | - | - | 1.0 | 1.0 | 1.8 | 1.8 | 2.0 | 2.2 | 1.0 | 2.0 | 1.7 | 1.5 | 1.5 | 0.4 | 2.2 | 2.2 | 2.4 | 2.4 | 2.8 | 2.3 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 1.9 | 1.9 | 3.6 | 4.2 | 4.8 | 5.8 | 1.9 | 5.4 | 3.0 | 2.5 | 2.5 | 0.8 | 5.7 | 5.4 | 4.6 | 5.1 | 5.9 | 5.8 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.9 | 1.9 | 3.5 | 4.1 | 4.7 | 5.5 | 1.9 | 5.7 | 3.3 | 2.7 | 2.6 | 0.8 | 6.4 | 5.7 | 4.5 | 5.0 | 5.8 | 5.6 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.8 | 1.8 | 3.3 | 4.0 | 4.4 | 5.2 | 1.8 | 6.2 | 4.3 | 3.2 | 2.8 | 0.8 | 7.6 | 6.2 | 4.7 | 5.0 | 5.7 | 5.3 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 1.7 | 1.7 | 3.3 | 4.0 | 4.5 | 5.2 | 1.7 | 6.5 | 4.8 | 3.5 | 3.0 | 0.8 | 8.1 | 6.5 | 4.8 | 5.1 | 5.8 | 5.4 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.7 | 0.7 | 1.4 | 1.6 | 2.0 | 2.2 | 0.7 | 2.9 | 2.8 | 2.8 | 2.7 | 1.0 | 3.4 | 3.7 | 4.2 | 4.1 | 4.0 | 2.7 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 264 | Community Infrastructure | - | - | 0.5 | 0.5 | 0.9 | 1.1 | 1.4 | 1.7 | 0.5 | 3.1 | 3.6 | 4.4 | 4.4 | 1.9 | 4.3 | 3.6 | 4.3 | 5.3 | 5.5 | 3.1 | 18 | 19 | 19 | 19 | 17 | 15 | 25 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0.2 | 0.2 | 0.4 | 0.5 | 0.6 | 0.7 | 0.2 | 0.6 | 0.7 | 0.7 | 0.7 | 0.2 | 0.9 | 0.7 | 1.0 | 1.1 | 1.2 | 0.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 1.8 | 1.8 | 3.4 | 4.1 | 5.0 | 4.7 | 1.8 | 3.9 | 4.1 | 3.8 | 5.7 | 2.0 | 6.2 | 4.1 | 4.6 | 4.7 | 8.3 | 6.2 | 17 | 17 | 17 | 19 | 18 | 17 | 25 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 1.7 | 1.7 | 3.3 | 3.9 | 4.6 | 4.4 | 1.7 | 3.6 | 3.9 | 3.7 | 5.4 | 1.9 | 5.9 | 3.9 | 4.6 | 4.5 | 7.8 | 5.8 | 17 | 17 | 17 | 19 | 18 | 16 | 25 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 1.9 | 1.9 | 3.6 | 3.9 | 5.4 | 6.5 | 1.9 | 3.2 | 3.3 | 3.1 | 4.4 | 1.6 | 5.1 | 3.5 | 4.7 | 5.1 | 8.4 | 7.8 | 17 | 17 | 17 | 18 | 18 | 17 | 25 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 1.9 | 1.9 | 3.6 | 3.8 | 5.4 | 6.7 | 1.9 | 3.2 | 3.3 | 3.0 | 4.4 | 1.6 | 4.9 | 3.5 | 4.6 | 5.1 | 8.3 | 7.9 | 16 | 17 | 17 | 18 | 17 | 17 | 25 |
| 321 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.1 | 2.9 | 6.4 | 6.8 | 1.7 | 3.1 | 3.2 | 2.7 | 3.9 | 1.4 | 4.5 | 3.2 | 4.4 | 4.7 | 8.3 | 7.5 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 322 | Private - Dwelling | - | - | 1.5 | 1.5 | 2.8 | 3.0 | 6.4 | 6.6 | 1.5 | 3.0 | 3.0 | 2.5 | 3.7 | 1.3 | 4.3 | 3.1 | 4.3 | 4.5 | 8.1 | 7.2 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 324 | Private - Dwelling | - | - | 1.6 | 1.6 | 2.9 | 3.0 | 6.4 | 6.7 | 1.6 | 3.1 | 3.1 | 2.5 | 3.8 | 1.3 | 4.4 | 3.2 | 4.4 | 4.6 | 8.2 | 7.3 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 326 | Private - Dwelling | - | - | 1.9 | 1.9 | 3.9 | 4.3 | 7.9 | 8.9 | 1.9 | 2.5 | 2.3 | 2.0 | 2.7 | 1.0 | 3.5 | 2.7 | 4.7 | 5.6 | 9.4 | 9.4 | 16 | 16 | 17 | 17 | 18 | 16 | 25 |
| 327 | Private - Dwelling | - | - | 1.9 | 1.9 | 4.0 | 4.6 | 8.1 | 8.8 | 1.9 | 2.4 | 2.3 | 1.9 | 2.6 | 1.0 | 3.5 | 2.7 | 4.8 | 5.8 | 9.6 | 9.3 | 16 | 16 | 17 | 17 | 18 | 16 | 25 |
| 328 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.7 | 4.0 | 7.9 | 9.6 | 1.8 | 2.7 | 2.5 | 2.1 | 3.1 | 1.1 | 3.8 | 2.9 | 4.6 | 5.5 | 9.6 | 10.2 | 16 | 16 | 17 | 17 | 18 | 16 | 25 |
| 330 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.8 | 3.8 | 7.1 | 8.6 | 1.8 | 2.5 | 2.4 | 1.9 | 2.8 | 1.0 | 3.6 | 2.7 | 4.7 | 5.2 | 8.8 | 9.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 331 | Community Infrastructure | - | - | 1.7 | 1.7 | 3.7 | 3.7 | 7.4 | 9.2 | 1.7 | 2.7 | 2.5 | 2.1 | 3.0 | 1.1 | 3.8 | 2.8 | 4.6 | 5.2 | 9.2 | 9.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 332 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.6 | 3.4 | 6.4 | 8.3 | 1.7 | 2.6 | 2.5 | 2.0 | 2.9 | 1.0 | 3.7 | 2.8 | 4.5 | 4.8 | 8.3 | 8.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 333 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.9 | 3.5 | 6.4 | 8.1 | 1.8 | 2.6 | 2.5 | 1.9 | 2.8 | 1.0 | 3.7 | 2.8 | 4.8 | 4.9 | 8.2 | 8.7 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 334 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.8 | 3.3 | 6.0 | 7.6 | 1.8 | 2.6 | 2.4 | 1.9 | 2.8 | 1.0 | 3.6 | 2.7 | 4.7 | 4.7 | 7.9 | 8.3 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 335 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.7 | 3.4 | 6.2 | 7.9 | 1.8 | 2.6 | 2.5 | 1.9 | 2.8 | 1.0 | 3.7 | 2.7 | 4.6 | 4.7 | 8.1 | 8.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 336 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.7 | 3.5 | 6.7 | 8.5 | 1.7 | 2.6 | 2.5 | 2.0 | 2.9 | 1.0 | 3.7 | 2.8 | 4.6 | 4.9 | 8.6 | 9.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 337 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.2 | 8.2 | 1.6 | 2.7 | 2.5 | 2.0 | 2.9 | 1.1 | 3.8 | 2.8 | 4.3 | 4.6 | 8.2 | 8.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 338 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.2 | 8.4 | 1.6 | 2.7 | 2.6 | 2.1 | 3.0 | 1.1 | 3.9 | 2.9 | 4.3 | 4.6 | 8.3 | 9.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 339 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.7 | 3.2 | 5.8 | 6.5 | 1.7 | 2.5 | 2.4 | 1.9 | 2.8 | 1.0 | 3.6 | 2.8 | 4.6 | 4.2 | 7.0 | 7.2 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 340 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.7 | 3.2 | 5.9 | 6.6 | 1.7 | 2.6 | 2.4 | 1.9 | 2.8 | 1.0 | 3.6 | 2.8 | 4.6 | 4.3 | 7.0 | 7.3 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 341 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.6 | 3.2 | 5.9 | 6.7 | 1.7 | 2.6 | 2.5 | 1.9 | 2.9 | 1.0 | 3.7 | 2.7 | 4.5 | 4.3 | 7.1 | 7.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 342 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.6 | 3.2 | 6.0 | 6.9 | 1.7 | 2.6 | 2.5 | 1.9 | 2.9 | 1.0 | 3.7 | 2.7 | 4.5 | 4.3 | 7.2 | 7.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 343 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.5 | 3.2 | 6.0 | 7.0 | 1.7 | 2.6 | 2.5 | 1.9 | 2.9 | 1.0 | 3.7 | 2.7 | 4.5 | 4.3 | 7.3 | 7.7 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 344 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.5 | 3.2 | 6.0 | 7.1 | 1.6 | 2.6 | 2.5 | 2.0 | 2.9 | 1.0 | 3.7 | 2.8 | 4.4 | 4.3 | 7.4 | 7.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 345 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.1 | 7.3 | 1.6 | 2.7 | 2.5 | 2.0 | 3.0 | 1.0 | 3.8 | 2.8 | 4.4 | 4.3 | 7.5 | 8.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 346 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.1 | 7.4 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.0 | 3.8 | 2.8 | 4.4 | 4.4 | 7.6 | 8.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 347 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 8.3 | 1.6 | 2.7 | 2.6 | 2.1 | 3.0 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 8.2 | 9.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 348 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.2 | 8.1 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.1 | 3.9 | 2.8 | 4.3 | 4.5 | 8.0 | 8.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 349 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.2 | 7.9 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.1 | 3.8 | 2.8 | 4.3 | 4.5 | 7.9 | 8.7 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 350 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.2 | 7.9 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.1 | 3.9 | 2.8 | 4.3 | 4.4 | 7.9 | 8.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 351 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 8.1 | 1.6 | 2.8 | 2.6 | 2.0 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 8.0 | 8.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 352 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 8.3 | 1.6 | 2.8 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 8.1 | 9.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 353 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 8.3 | 1.6 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 8.2 | 9.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 355 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 8.3 | 1.5 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 4.0 | 2.9 | 4.3 | 4.5 | 8.2 | 9.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 356 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 8.0 | 1.6 | 2.8 | 2.7 | 2.0 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 7.9 | 8.7 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 357 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 7.8 | 1.6 | 2.8 | 2.6 | 2.0 | 3.1 | 1.1 | 3.9 | 2.9 | 4.4 | 4.4 | 7.8 | 8.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 358 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 7.7 | 1.6 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.4 | 4.4 | 7.8 | 8.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 359 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 8.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 4.0 | 2.9 | 4.3 | 4.4 | 8.0 | 8.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 360 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 8.3 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.5 | 8.1 | 9.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 361 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 8.4 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.2 | 4.0 | 2.9 | 4.2 | 4.5 | 8.2 | 9.2 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 362 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 3.2 | 6.4 | 8.2 | 1.5 | 2.9 | 2.7 | 2.1 | 3.2 | 1.2 | 4.0 | 3.0 | 4.2 | 4.4 | 8.0 | 9.0 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 363 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 8.1 | 1.5 | 2.9 | 2.7 | 2.1 | 3.2 | 1.2 | 4.0 | 3.0 | 4.2 | 4.4 | 7.9 | 8.9 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 366 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 7.8 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.3 | 7.8 | 8.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 367 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.3 | 7.7 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.3 | 7.7 | 8.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |

**Modelled maximum 24-hour average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 7.8 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.4 | 7.8 | 8.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 369 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 7.7 | 1.5 | 2.8 | 2.7 | 2.2 | 3.2 | 1.1 | 4.0 | 2.9 | 4.2 | 4.3 | 7.7 | 8.5 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 370 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 7.4 | 1.6 | 2.8 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.4 | 4.3 | 7.5 | 8.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 371 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.3 | 7.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.9 | 4.3 | 4.2 | 7.6 | 7.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 372 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.2 | 6.8 | 1.6 | 2.7 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.8 | 4.4 | 4.2 | 7.4 | 7.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 373 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.3 | 7.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.6 | 7.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 374 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 7.0 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.6 | 7.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 375 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.3 | 7.0 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.6 | 7.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 376 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 3.2 | 6.5 | 7.3 | 1.5 | 2.9 | 2.8 | 2.3 | 3.3 | 1.2 | 4.1 | 3.0 | 4.2 | 4.2 | 7.8 | 8.2 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 377 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 3.1 | 6.3 | 7.5 | 1.5 | 2.8 | 2.7 | 2.2 | 3.2 | 1.1 | 4.0 | 2.9 | 4.2 | 4.2 | 7.7 | 8.3 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 380 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.2 | 6.3 | 1.5 | 2.8 | 2.8 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.3 | 4.2 | 7.7 | 7.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 381 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 6.5 | 1.5 | 2.8 | 2.8 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.3 | 4.2 | 7.7 | 7.4 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 382 | Community Infrastructure | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 6.5 | 1.5 | 2.8 | 2.7 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.3 | 4.2 | 7.7 | 7.4 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 383 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 6.8 | 1.5 | 2.8 | 2.8 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.3 | 4.2 | 7.7 | 7.7 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 384 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 6.8 | 1.5 | 2.8 | 2.7 | 2.2 | 3.3 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.7 | 7.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 385 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.3 | 6.6 | 1.5 | 2.8 | 2.7 | 2.2 | 3.2 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.6 | 7.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 386 | Community Infrastructure | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.1 | 6.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.9 | 4.4 | 4.1 | 7.5 | 7.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 389 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.4 | 6.7 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 7.9 | 7.6 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 390 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.4 | 6.6 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 7.9 | 7.5 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 391 | Private - Commercial | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.4 | 6.5 | 1.4 | 2.9 | 2.9 | 2.3 | 3.4 | 1.2 | 4.2 | 3.0 | 4.1 | 4.3 | 7.9 | 7.4 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 392 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.1 | 6.4 | 6.5 | 1.4 | 2.9 | 2.9 | 2.4 | 3.4 | 1.2 | 4.2 | 3.0 | 4.1 | 4.3 | 7.9 | 7.4 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 393 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.1 | 6.4 | 6.5 | 1.4 | 2.9 | 2.9 | 2.4 | 3.5 | 1.2 | 4.2 | 3.0 | 4.1 | 4.3 | 7.9 | 7.3 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 394 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.1 | 6.4 | 6.4 | 1.4 | 2.9 | 2.9 | 2.4 | 3.4 | 1.2 | 4.2 | 3.0 | 4.1 | 4.3 | 7.9 | 7.3 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 395 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.5 | 6.8 | 1.4 | 3.0 | 2.9 | 2.4 | 3.5 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 8.0 | 7.7 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 396 | Community Infrastructure | - | - | 1.3 | 1.3 | 2.8 | 2.9 | 5.9 | 6.0 | 1.3 | 2.8 | 2.7 | 2.2 | 3.3 | 1.2 | 3.9 | 2.9 | 4.0 | 4.1 | 7.4 | 6.5 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 397 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.9 | 3.0 | 6.2 | 6.3 | 1.3 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.1 | 4.2 | 7.7 | 7.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 398 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.0 | 6.0 | 6.1 | 1.4 | 2.8 | 2.7 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.1 | 4.2 | 7.5 | 6.6 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 399 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.9 | 3.0 | 6.2 | 6.3 | 1.3 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.1 | 4.2 | 7.8 | 7.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 400 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.0 | 6.2 | 6.3 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.1 | 4.2 | 7.7 | 7.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 401 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.0 | 6.3 | 6.3 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.1 | 4.2 | 7.7 | 7.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 402 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.9 | 3.0 | 6.3 | 6.3 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.1 | 4.2 | 7.7 | 7.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 403 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.3 | 6.3 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.2 | 4.2 | 7.8 | 7.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 404 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.0 | 6.1 | 6.1 | 1.4 | 2.8 | 2.8 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.1 | 4.2 | 7.6 | 6.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 405 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.3 | 6.3 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.2 | 4.2 | 7.8 | 7.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 406 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.3 | 6.4 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.1 | 3.0 | 4.2 | 4.2 | 7.8 | 7.3 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 407 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.1 | 3.0 | 6.1 | 6.0 | 1.4 | 2.8 | 2.7 | 2.2 | 3.2 | 1.1 | 4.0 | 2.9 | 4.2 | 4.1 | 7.5 | 6.8 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 408 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.0 | 6.0 | 6.0 | 1.4 | 2.8 | 2.7 | 2.2 | 3.3 | 1.1 | 3.9 | 2.8 | 4.1 | 4.1 | 7.4 | 6.5 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 409 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 3.1 | 6.1 | 6.0 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.9 | 4.3 | 4.1 | 7.5 | 6.8 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 410 | Community Infrastructure | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.1 | 6.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.9 | 4.4 | 4.1 | 7.5 | 6.9 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 411 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.1 | 6.0 | 1.5 | 2.8 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.9 | 4.3 | 4.1 | 7.5 | 6.9 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 412 | Community Infrastructure | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.0 | 5.8 | 1.5 | 2.7 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.1 | 7.4 | 6.7 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 413 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 5.9 | 5.8 | 1.5 | 2.7 | 2.7 | 2.1 | 3.2 | 1.1 | 3.9 | 2.8 | 4.3 | 4.1 | 7.3 | 6.5 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 414 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.0 | 5.8 | 1.5 | 2.7 | 2.6 | 2.1 | 3.2 | 1.1 | 3.9 | 2.8 | 4.3 | 4.1 | 7.3 | 6.6 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 415 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.0 | 5.8 | 1.5 | 2.7 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.8 | 4.3 | 4.1 | 7.3 | 6.6 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 417 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 7.3 | 1.6 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.4 | 4.3 | 7.5 | 8.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 418 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.5 | 3.2 | 6.1 | 6.5 | 1.6 | 2.7 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.8 | 4.5 | 4.2 | 7.4 | 7.4 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 419 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.1 | 3.0 | 5.7 | 5.6 | 1.4 | 2.6 | 2.6 | 2.0 | 3.1 | 1.1 | 3.7 | 2.8 | 4.2 | 4.0 | 7.1 | 6.1 | 16 | 16 | 16 | 16 | 17 | 16 | 25 |
| 420 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 3.0 | 6.1 | 6.0 | 1.4 | 2.8 | 2.7 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.2 | 4.1 | 7.5 | 6.7 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 421 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.1 | 3.2 | 6.5 | 7.1 | 1.4 | 2.9 | 2.8 | 2.3 | 3.4 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 7.9 | 8.0 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 422 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 3.2 | 6.4 | 7.1 | 1.5 | 2.9 | 2.8 | 2.3 | 3.3 | 1.2 | 4.1 | 3.0 | 4.2 | 4.2 | 7.8 | 7.9 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 423 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.1 | 3.2 | 6.4 | 6.7 | 1.4 | 2.9 | 2.9 | 2.3 | 3.4 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 7.9 | 7.6 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 425 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.0 | 2.7 | 4.7 | 4.7 | 1.4 | 2.2 | 2.1 | 1.8 | 2.5 | 0.9 | 3.1 | 2.6 | 4.0 | 3.6 | 6.0 | 5.2 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 426 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.7 | 2.5 | 4.6 | 4.7 | 1.3 | 2.1 | 2.1 | 2.0 | 2.6 | 0.9 | 3.2 | 2.6 | 3.9 | 3.6 | 6.0 | 5.2 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 427 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 2.9 | 5.4 | 5.4 | 1.5 | 2.5 | 2.5 | 2.2 | 3.1 | 1.1 | 3.6 | 3.0 | 4.4 | 4.1 | 6.9 | 6.0 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 428 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.1 | 2.9 | 5.5 | 5.5 | 1.5 | 2.5 | 2.6 | 2.2 | 3.1 | 1.1 | 3.7 | 3.0 | 4.4 | 4.2 | 7.1 | 6.1 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 429 | Private - Dwelling | - | - | 1.6 | 1.6 | 2.9 | 3.0 | 6.1 | 6.3 | 1.6 | 2.9 | 2.9 | 2.3 | 3.6 | 1.3 | 4.2 | 3.1 | 4.4 | 4.5 | 7.9 | 6.9 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 430 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.0 | 2.9 | 5.7 | 5.8 | 1.5 | 2.7 | 2.7 | 2.2 | 3.3 | 1.2 | 3.8 | 3.0 | 4.3 | 4.2 | 7.3 | 6.3 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 431 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.0 | 2.9 | 6.1 | 6.3 | 1.6 | 2.9 | 3.0 | 2.4 | 3.7 | 1.3 | 4.2 | 3.1 | 4.4 | 4.5 | 7.9 | 7.0 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 432 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.0 | 2.4 | 4.6 | 4.9 | 1.6 | 2.6 | 2.7 | 2.6 | 3.5 | 1.2 | 4.1 | 2.9 | 4.0 | 4.0 | 6.6 | 5.6 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.5 | 1.5 | 2.9 | 2.6 | 4.0 | 4.4 | 1.5 | 2.8 | 2.8 | 2.7 | 3.7 | 1.3 | 4.2 | 3.0 | 3.6 | 3.6 | 6.2 | 5.2 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 434 | Private - Dwelling | - | - | 1.9 | 1.9 | 3.7 | 3.4 | 6.2 | 7.5 | 1.9 | 3.3 | 3.5 | 3.1 | 4.5 | 1.6 | 4.8 | 3.5 | 4.7 | 5.1 | 8.7 | 8.6 | 17 | 16 | 17 | 17 | 18 | 17 | 25 |
| 436 | Private - Dwelling | - | - | 1.9 | 1.9 | 3.6 | 3.3 | 5.7 | 6.6 | 1.9 | 3.0 | 3.2 | 2.8 | 4.2 | 1.5 | 4.7 | 3.4 | 4.6 | 4.9 | 8.2 | 7.8 | 16 | 16 | 17 | 18 | 17 | 16 | 25 |
| 437 | Private - Dwelling | - | - | 2.0 | 2.0 | 4.0 | 4.7 | 8.1 | 8.5 | 2.0 | 2.3 | 2.2 | 1.8 | 2.6 | 0.9 | 3.4 | 2.7 | 4.8 | 5.9 | 9.5 | 9.0 | 16 | 16 | 17 | 17 | 18 | 16 | 25 |
| 438 | Private - Dwelling | - | - | 1.8 | 1.8 | 3.6 | 4.1 | 6.8 | 7.0 | 1.8 | 2.0 | 1.9 | 1.6 | 2.2 | 0.8 | 2.9 | 2.4 | 4.2 | 5.2 | 8.0 | 7.4 | 16 | 16 | 16 | 16 | 17 | 16 | 25 |
| 440 | Private - Dwelling | - | - | 1.7 | 1.7 | 3.3 | 3.2 | 5.0 | 5.7 | 1.7 | 3.0 | 3.1 | 2.8 | 3.9 | 1.4 | 4.6 | 3.3 | 4.2 | 4.5 | 7.5 | 6.8 | 16 | 16 | 17 | 17 | 17 | 16 | 25 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.2 | 1.2 | 2.3 | 2.5 | 2.8 | 2.7 | 1.2 | 2.0 | 2.4 | 2.3 | 2.8 | 1.0 | 3.1 | 2.2 | 2.9 | 2.8 | 4.7 | 3.5 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.2 | 1.2 | 2.3 | 2.5 | 2.8 | 2.9 | 1.2 | 2.2 | 2.6 | 2.5 | 3.1 | 1.1 | 3.4 | 2.4 | 2.9 | 2.9 | 4.9 | 3.7 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.1 | 1.1 | 2.1 | 2.2 | 2.4 | 2.5 | 1.1 | 1.8 | 2.1 | 2.1 | 2.5 | 0.9 | 2.7 | 1.9 | 2.6 | 2.5 | 4.1 | 3.2 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.1 | 1.1 | 2.0 | 2.2 | 2.4 | 2.4 | 1.1 | 1.6 | 2.0 | 2.0 | 2.2 | 0.8 | 2.4 | 1.8 | 2.6 | 2.3 | 4.0 | 3.0 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.0 | 1.0 | 1.9 | 2.0 | 2.2 | 2.2 | 1.0 | 1.4 | 1.7 | 1.7 | 1.9 | 0.7 | 2.0 | 1.7 | 2.4 | 2.1 | 3.6 | 2.7 | 16 | 16 | 16 | 17 | 16 | 16 | 25 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.9 | 0.9 | 1.7 | 1.8 | 2.0 | 1.9 | 0.9 | 1.1 | 1.3 | 1.3 | 1.6 | 0.6 | 1.9 | 1.5 | 2.1 | 1.9 | 3.1 | 2.4 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.9 | 0.9 | 1.6 | 1.8 | 1.9 | 1.9 | 0.9 | 1.0 | 1.2 | 1.2 | 1.6 | 0.6 | 1.8 | 1.4 | 2.0 | 1.9 | 2.9 | 2.2 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.9 | 0.9 | 1.7 | 1.7 | 1.9 | 2.1 | 0.9 | 1.4 | 1.6 | 1.6 | 1.8 | 0.6 | 2.0 | 1.5 | 2.2 | 2.0 | 3.3 | 2.6 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.1 | 1.1 | 2.0 | 2.0 | 2.3 | 2.5 | 1.1 | 1.9 | 2.1 | 2.1 | 2.5 | 0.9 | 2.8 | 2.0 | 2.6 | 2.6 | 4.0 | 3.1 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.0 | 1.0 | 1.9 | 1.8 | 2.3 | 2.5 | 1.0 | 1.8 | 2.0 | 2.0 | 2.4 | 0.8 | 2.7 | 1.9 | 2.5 | 2.5 | 3.8 | 3.0 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.0 | 1.0 | 1.8 | 1.8 | 2.1 | 2.3 | 1.0 | 1.6 | 1.8 | 1.8 | 2.1 | 0.7 | 2.3 | 1.7 | 2.3 | 2.3 | 3.5 | 2.8 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 463 | Glencore Owned - Occupied | - | - | 1.8 | 1.8 | 3.5 | 4.2 | 4.9 | 5.0 | 1.8 | 3.8 | 3.9 | 3.6 | 5.4 | 1.9 | 6.0 | 4.0 | 4.6 | 4.8 | 8.2 | 6.3 | 17 | 17 | 17 | 19 | 18 | 17 | 25 |
| 464 | Private - Dwelling | - | - | 1.2 | 1.2 | 2.4 | 2.2 | 3.8 | 3.9 | 1.2 | 1.8 | 1.9 | 1.9 | 2.4 | 0.8 | 2.8 | 2.3 | 3.5 | 3.1 | 5.1 | 4.3 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 466 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 2.8 | 4.7 | 4.6 | 1.6 | 2.1 | 2.0 | 1.5 | 2.3 | 0.8 | 3.0 | 2.5 | 4.2 | 3.6 | 5.8 | 5.3 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 3.3 | 3.3 | 5.1 | 5.0 | 4.2 | 4.9 | 3.3 | 2.0 | 1.7 | 1.5 | 1.4 | 0.4 | 2.5 | 3.3 | 5.1 | 5.1 | 4.9 | 5.1 | 17 | 18 | 18 | 18 | 16 | 15 | 25 |
| 472 | Private - Dwelling | - | - | 0.6 | 0.6 | 1.2 | 0.9 | 1.5 | 1.6 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 0.3 | 1.1 | 1.1 | 1.6 | 1.5 | 2.1 | 1.7 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 473 | Private - Commercial | - | - | 1.5 | 1.5 | 3.1 | 3.2 | 6.4 | 6.6 | 1.5 | 2.9 | 2.8 | 2.3 | 3.3 | 1.2 | 4.1 | 3.0 | 4.3 | 4.2 | 7.8 | 7.5 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.7 | 0.7 | 1.3 | 1.4 | 1.5 | 1.4 | 0.7 | 0.8 | 0.9 | 0.7 | 1.2 | 0.4 | 1.4 | 1.1 | 1.6 | 1.5 | 2.2 | 1.7 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 1.1 | 1.1 | 2.1 | 2.1 | 2.4 | 2.6 | 1.1 | 2.0 | 2.2 | 2.2 | 2.6 | 0.9 | 2.9 | 2.1 | 2.6 | 2.7 | 4.2 | 3.3 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 481 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.0 | 2.8 | 5.3 | 5.4 | 1.5 | 2.5 | 2.5 | 2.2 | 3.1 | 1.1 | 3.6 | 3.0 | 4.3 | 4.1 | 6.9 | 6.0 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 482 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.3 | 3.2 | 6.3 | 8.1 | 1.5 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.5 | 8.0 | 8.9 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 483 | Community Infrastructure | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.2 | 7.6 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.1 | 3.8 | 2.8 | 4.4 | 4.4 | 7.7 | 8.4 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 484 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.1 | 8.1 | 1.6 | 2.7 | 2.6 | 2.0 | 3.0 | 1.1 | 3.8 | 2.8 | 4.3 | 4.5 | 8.0 | 8.8 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 487 | Private - Dwelling | - | - | 1.9 | 1.9 | 3.8 | 4.5 | 7.4 | 7.4 | 1.9 | 2.1 | 2.0 | 1.7 | 2.3 | 0.8 | 3.1 | 2.6 | 4.5 | 5.6 | 8.6 | 7.9 | 16 | 16 | 16 | 17 | 17 | 16 | 25 |
| 488 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.1 | 3.7 | 5.9 | 6.2 | 1.6 | 1.8 | 1.7 | 1.4 | 2.0 | 0.7 | 2.6 | 2.2 | 3.7 | 4.6 | 7.0 | 6.6 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 489 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.2 | 3.7 | 6.0 | 6.3 | 1.6 | 1.9 | 1.7 | 1.4 | 2.0 | 0.7 | 2.7 | 2.2 | 3.8 | 4.6 | 7.1 | 6.7 | 16 | 16 | 16 | 16 | 16 | 16 | 25 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 2.0 | 2.0 | 3.7 | 4.2 | 4.9 | 5.8 | 2.0 | 4.8 | 2.7 | 2.3 | 2.4 | 0.7 | 5.0 | 4.8 | 4.6 | 5.1 | 5.9 | 5.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 1.8 | 1.8 | 3.3 | 3.8 | 4.1 | 4.8 | 1.8 | 5.4 | 3.5 | 2.6 | 2.5 | 0.8 | 6.5 | 5.4 | 4.4 | 4.6 | 5.2 | 4.9 | 16 | 16 | 16 | 16 | 16 | 15 | 25 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 2.8 | 2.8 | 4.5 | 4.4 | 3.5 | 4.6 | 2.8 | 1.6 | 1.4 | 1.3 | 1.2 | 0.3 | 2.0 | 2.8 | 4.6 | 4.4 | 4.2 | 4.8 | 16 | 16 | 17 | 17 | 16 | 15 | 25 |
| 507 | Community Infrastructure | - | - | 1.3 | 1.3 | 2.1 | 2.0 | 1.6 | 1.4 | 1.3 | 0.5 | 0.5 | 0.4 | 0.5 | 0.2 | 0.9 | 1.3 | 2.1 | 2.1 | 1.7 | 1.4 | 15 | 19 | 19 | 19 | 15 | 15 | 25 |
| 511 | Community Infrastructure | - | - | 1.1 | 1.1 | 1.8 | 1.8 | 1.4 | 1.3 | 1.1 | 0.5 | 0.4 | 0.4 | 0.4 | 0.1 | 0.8 | 1.1 | 1.9 | 1.9 | 1.5 | 1.3 | 15 | 17 | 17 | 17 | 15 | 15 | 25 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 1.3 | 1.3 | 2.0 | 2.0 | 1.5 | 1.6 | 1.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.1 | 0.9 | 1.3 | 2.1 | 2.1 | 1.6 | 1.6 | 15 | 17 | 17 | 17 | 15 | 15 | 25 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 1.8 | 1.8 | 2.8 | 3.1 | 2.9 | 2.9 | 1.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.2 | 1.4 | 1.9 | 2.9 | 3.3 | 3.2 | 3.0 | 17 | 27 | 27 | 27 | 16 | 15 | 25 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 1.2 | 1.2 | 2.1 | 1.9 | 1.4 | 1.5 | 1.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.8 | 1.3 | 2.1 | 1.9 | 1.5 | 1.5 | 15 | 17 | 17 | 17 | 15 | 15 | 25 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 1.3 | 1.3 | 2.1 | 1.9 | 1.4 | 1.5 | 1.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.9 | 1.4 | 2.2 | 2.0 | 1.5 | 1.6 | 16 | 18 | 18 | 17 | 15 | 15 | 25 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 1.3 | 1.3 | 2.1 | 1.9 | 1.4 | 1.5 | 1.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.9 | 1.4 | 2.2 | 2.0 | 1.5 | 1.6 | 16 | 18 | 18 | 17 | 15 | 15 | 25 |
| 614 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.1 | 1.9 | 1.4 | 1.5 | 1.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.9 | 1.4 | 2.2 | 2.0 | 1.5 | 1.6 | 16 | 18 | 18 | 17 | 15 | 15 | 25 |

**Modelled maximum 24-hour average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.6 | 2.6 | 3.8 | 3.7 | 3.7 | 3.7 | 2.6 | 1.1 | 0.9 | 0.8 | 0.8 | 0.2 | 2.1 | 3.0 | 4.2 | 3.9 | 3.8 | 3.8 | 17 | 17 | 17 | 17 | 16 | 15 | 25 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 2.7 | 2.7 | 4.3 | 4.1 | 3.8 | 4.7 | 2.7 | 1.0 | 0.9 | 0.8 | 0.9 | 0.3 | 1.9 | 2.8 | 4.3 | 4.1 | 4.3 | 4.8 | 18 | 19 | 19 | 19 | 17 | 15 | 25 |
| 623 | Community Infrastructure | - | - | 3.0 | 3.0 | 4.7 | 4.3 | 4.3 | 4.5 | 3.0 | 1.3 | 1.1 | 1.0 | 1.0 | 0.3 | 2.4 | 3.5 | 5.1 | 4.9 | 4.3 | 4.5 | 17 | 18 | 18 | 17 | 16 | 15 | 25 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 3.0 | 3.0 | 4.6 | 4.1 | 4.2 | 4.5 | 3.0 | 1.2 | 1.0 | 1.0 | 0.9 | 0.3 | 2.4 | 3.4 | 4.9 | 4.7 | 4.3 | 4.5 | 18 | 18 | 19 | 17 | 16 | 15 | 25 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 3.0 | 3.0 | 4.5 | 3.9 | 4.2 | 4.3 | 3.0 | 1.2 | 1.0 | 0.9 | 0.9 | 0.2 | 2.4 | 3.3 | 4.8 | 4.5 | 4.3 | 4.4 | 18 | 18 | 19 | 18 | 16 | 15 | 25 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.9 | 2.9 | 4.3 | 4.0 | 4.0 | 4.1 | 2.9 | 1.1 | 1.0 | 0.9 | 0.8 | 0.2 | 2.3 | 3.3 | 4.7 | 4.3 | 4.1 | 4.1 | 18 | 18 | 19 | 18 | 16 | 15 | 25 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 2.8 | 2.8 | 4.1 | 4.0 | 3.9 | 4.0 | 2.8 | 1.1 | 0.9 | 0.9 | 0.8 | 0.2 | 2.3 | 3.2 | 4.6 | 4.2 | 4.0 | 4.1 | 18 | 17 | 18 | 17 | 16 | 15 | 25 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 2.7 | 2.7 | 4.0 | 4.1 | 3.8 | 4.0 | 2.7 | 1.1 | 0.9 | 0.8 | 0.8 | 0.2 | 2.3 | 3.2 | 4.5 | 4.2 | 3.8 | 4.0 | 18 | 17 | 19 | 17 | 16 | 15 | 25 |
| 735 | Private - Commercial | - | - | 3.6 | 3.6 | 5.8 | 4.4 | 3.3 | 3.5 | 3.6 | 2.1 | 1.7 | 1.5 | 1.1 | 0.3 | 2.5 | 3.7 | 5.8 | 4.5 | 3.7 | 3.6 | 21 | 42 | 42 | 34 | 17 | 16 | 25 |
| 797 | Community Infrastructure | - | - | 4.0 | 3.9 | 6.2 | 5.1 | 3.5 | 3.7 | 4.0 | 2.2 | 1.8 | 1.5 | 1.1 | 0.3 | 2.9 | 3.9 | 6.3 | 5.2 | 3.9 | 3.9 | 23 | 43 | 43 | 33 | 18 | 15 | 25 |
| 799 | Community Infrastructure | - | - | 4.0 | 3.9 | 6.2 | 5.1 | 3.5 | 3.7 | 4.0 | 2.2 | 1.8 | 1.5 | 1.1 | 0.3 | 2.9 | 3.9 | 6.3 | 5.2 | 3.9 | 3.9 | 23 | 43 | 43 | 33 | 18 | 15 | 25 |
| 800 | Private - Commercial | - | - | 4.0 | 3.9 | 6.2 | 5.1 | 3.5 | 3.7 | 4.0 | 2.2 | 1.8 | 1.5 | 1.1 | 0.3 | 2.9 | 3.9 | 6.3 | 5.2 | 3.9 | 3.9 | 23 | 43 | 43 | 33 | 18 | 15 | 25 |
| 829 | Private - Commercial | - | - | 0.8 | 0.8 | 1.5 | 1.7 | 2.2 | 2.4 | 0.8 | 3.8 | 3.8 | 3.5 | 3.1 | 1.2 | 4.2 | 4.5 | 5.2 | 5.2 | 5.1 | 3.2 | 15 | 16 | 16 | 16 | 15 | 15 | 25 |
| 830 | Private - Commercial | - | - | 0.6 | 0.6 | 1.3 | 1.5 | 2.0 | 2.2 | 0.6 | 3.7 | 3.9 | 3.7 | 3.4 | 1.2 | 4.2 | 4.3 | 5.2 | 5.2 | 5.4 | 3.2 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 833 | Private - Commercial | - | - | 0.8 | 0.8 | 1.5 | 1.9 | 2.6 | 3.3 | 0.8 | 14.2 | 16.5 | 16.1 | 15.4 | 6.0 | 15.6 | 15.0 | 18.0 | 17.9 | 17.3 | 8.3 | 22 | 28 | 31 | 28 | 23 | 16 | 25 |
| 834 | Private - Commercial | - | - | 1.4 | 1.4 | 3.0 | 3.1 | 6.4 | 6.6 | 1.4 | 2.9 | 2.9 | 2.4 | 3.4 | 1.2 | 4.2 | 3.0 | 4.2 | 4.3 | 7.9 | 7.6 | 16 | 16 | 16 | 17 | 18 | 17 | 25 |
| 835 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.3 | 7.9 | 1.6 | 2.8 | 2.7 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.3 | 4.4 | 7.9 | 8.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 836 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.4 | 3.2 | 6.2 | 7.2 | 1.6 | 2.7 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.8 | 4.4 | 4.3 | 7.5 | 8.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 837 | Private - Dwelling | - | - | 1.6 | 1.6 | 3.3 | 3.2 | 6.2 | 7.4 | 1.6 | 2.8 | 2.6 | 2.1 | 3.1 | 1.1 | 3.9 | 2.9 | 4.4 | 4.3 | 7.5 | 8.2 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 838 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.2 | 6.4 | 6.7 | 1.5 | 2.9 | 2.8 | 2.3 | 3.3 | 1.2 | 4.1 | 3.0 | 4.3 | 4.2 | 7.8 | 7.6 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 839 | Private - Dwelling | - | - | 1.5 | 1.5 | 3.2 | 3.1 | 6.2 | 6.1 | 1.5 | 2.8 | 2.7 | 2.2 | 3.3 | 1.1 | 4.0 | 2.9 | 4.3 | 4.2 | 7.6 | 7.0 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 840 | Private - Dwelling | - | - | 1.4 | 1.4 | 3.1 | 3.1 | 6.2 | 6.2 | 1.4 | 2.8 | 2.8 | 2.2 | 3.3 | 1.2 | 4.0 | 2.9 | 4.2 | 4.2 | 7.6 | 7.1 | 16 | 16 | 16 | 17 | 18 | 16 | 25 |
| 843 | Private - Dwelling | - | - | 1.3 | 1.3 | 2.2 | 2.2 | 2.1 | 2.4 | 1.3 | 1.9 | 1.9 | 1.8 | 1.6 | 0.4 | 2.2 | 2.0 | 2.3 | 2.4 | 2.8 | 2.6 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 846 | Private - Dwelling | - | - | 1.6 | 1.6 | 2.6 | 2.5 | 2.5 | 2.9 | 1.6 | 2.7 | 2.5 | 2.2 | 1.9 | 0.5 | 3.2 | 2.7 | 2.7 | 2.6 | 2.9 | 3.0 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 847 | Private - Dwelling | - | - | 1.5 | 1.5 | 2.6 | 2.5 | 2.5 | 2.9 | 1.5 | 2.8 | 2.5 | 2.3 | 1.9 | 0.5 | 3.2 | 2.8 | 2.6 | 2.6 | 2.8 | 3.0 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 852 | Private - Dwelling | - | - | 1.5 | 1.5 | 2.6 | 2.6 | 2.4 | 2.9 | 1.5 | 3.0 | 2.8 | 2.5 | 2.1 | 0.6 | 3.5 | 3.0 | 2.8 | 2.8 | 2.9 | 3.0 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 855 | Private - Dwelling | - | - | 1.0 | 1.0 | 2.0 | 2.1 | 2.1 | 2.4 | 1.0 | 2.6 | 2.5 | 2.2 | 2.1 | 0.6 | 3.0 | 3.2 | 3.4 | 3.4 | 3.5 | 2.5 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 856 | Private - Dwelling | - | - | 1.4 | 1.4 | 2.4 | 2.4 | 2.3 | 2.6 | 1.4 | 2.3 | 2.3 | 2.2 | 1.9 | 0.5 | 2.7 | 2.3 | 2.5 | 2.6 | 2.9 | 2.8 | 15 | 15 | 15 | 15 | 15 | 15 | 25 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 2.6 | 2.6 | 4.1 | 3.3 | 3.8 | 4.1 | 2.6 | 1.0 | 0.8 | 0.8 | 0.8 | 0.2 | 2.0 | 2.8 | 4.1 | 3.7 | 4.0 | 4.2 | 18 | 19 | 19 | 18 | 17 | 15 | 25 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 2.2 | 2.2 | 3.3 | 3.7 | 3.3 | 3.2 | 2.2 | 0.8 | 0.7 | 0.6 | 0.6 | 0.2 | 1.8 | 2.5 | 3.5 | 3.8 | 3.4 | 3.3 | 18 | 19 | 20 | 19 | 17 | 15 | 25 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 2.6 | 2.6 | 4.0 | 4.4 | 3.7 | 3.7 | 2.6 | 1.0 | 0.8 | 0.7 | 0.7 | 0.2 | 2.2 | 3.0 | 4.2 | 4.5 | 3.7 | 3.8 | 22 | 22 | 23 | 20 | 17 | 15 | 25 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 2.4 | 2.4 | 3.8 | 4.2 | 3.5 | 3.5 | 2.4 | 0.9 | 0.8 | 0.7 | 0.7 | 0.2 | 2.0 | 2.8 | 3.9 | 4.3 | 3.5 | 3.6 | 21 | 21 | 22 | 19 | 17 | 15 | 25 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 2.7 | 2.7 | 4.6 | 4.6 | 4.3 | 4.9 | 2.7 | 1.9 | 1.6 | 1.4 | 1.4 | 0.4 | 2.6 | 2.9 | 4.6 | 4.7 | 4.4 | 4.9 | 16 | 17 | 17 | 17 | 16 | 15 | 25 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 2.6 | 2.6 | 4.5 | 4.6 | 4.2 | 4.8 | 2.6 | 1.8 | 1.5 | 1.3 | 1.4 | 0.4 | 2.6 | 2.8 | 4.6 | 4.7 | 4.2 | 4.8 | 16 | 17 | 17 | 17 | 16 | 15 | 25 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 2.0 | 2.0 | 3.7 | 4.2 | 4.9 | 5.8 | 2.0 | 3.8 | 2.4 | 2.0 | 2.0 | 0.6 | 4.2 | 3.9 | 4.5 | 5.1 | 5.8 | 5.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 949 | Private - Dwelling | - | - | 2.0 | 2.0 | 3.7 | 4.2 | 4.9 | 5.8 | 2.0 | 3.8 | 2.4 | 2.0 | 2.0 | 0.6 | 4.2 | 3.9 | 4.5 | 5.1 | 5.8 | 5.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |
| 950 | Private - Dwelling | - | - | 2.0 | 2.0 | 3.7 | 4.2 | 4.9 | 5.8 | 2.0 | 3.8 | 2.4 | 2.0 | 2.0 | 0.6 | 4.2 | 3.9 | 4.5 | 5.1 | 5.8 | 5.9 | 16 | 16 | 16 | 16 | 15 | 15 | 25 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled number of days above 25 ug/m3 PM2.5**

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | Criteria |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | |
| D119 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL14 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | - |
| D118 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL22 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL21 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| D122 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL30 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| DL2 | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | - |
| Cheshunt East | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Long Point | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Wandewoi | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | - |
| Howick | Monitor | - | - | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 29 | 36 | 9 | 2 | 0 | - |
| Golden Highway | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 9 | 0 | 0 | - |
| HC1 Conveyor | Monitor | - | - | 0 | 36 | 99 | 168 | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 103 | 172 | 4 | 12 | 1 | 173 | 193 | 237 | 63 | 23 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Warkworth | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Jerrys Plains | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Cheshunt East | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| HVGC | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | - |
| Long Point | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Kilburnie South | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Maison Dieu | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Knodlers Lane | Monitor | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 17 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 19 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 37 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464) | Warkworth (Noise & AQ) [SSD6464) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 127 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 134 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 141 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 167 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 169 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 170 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 173 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 174 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 175 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 176 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 178 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 179 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 248 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 249 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 250 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 251 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 264 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 321 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 322 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 324 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 326 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 327 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 328 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 330 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 331 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 332 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 333 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 334 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 335 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 336 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 337 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 338 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 339 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 340 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 341 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 342 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 343 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 344 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 345 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 346 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 347 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 348 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 349 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 350 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 351 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 352 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 353 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 355 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 356 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 357 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 358 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 359 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 360 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 361 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 362 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 363 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 366 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 367 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

**Modelled number of days above 25 ug/m3 PM2.5**

| ID | Status | Existing mitigation rights | Existing acquisition rights | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | Criteria |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | |
| 368 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 369 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 370 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 371 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 372 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 373 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 374 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 375 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 376 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 377 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 380 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 381 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 382 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 383 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 384 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 385 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 386 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 389 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 390 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 391 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 392 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 393 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 394 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 395 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 396 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 397 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 398 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 399 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 400 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 401 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 402 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 403 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 404 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 405 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 406 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 407 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 408 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 409 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 410 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 411 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 412 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 413 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 414 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 415 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 417 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 418 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 419 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 420 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 421 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 422 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 423 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 425 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 426 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 427 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 428 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 429 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 430 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 431 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 432 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 434 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 436 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 437 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 438 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 440 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 463 | Glencore Owned - Occupied | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 464 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 466 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 472 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 473 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 481 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 482 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 483 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 484 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 487 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 488 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 489 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 507 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 511 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | - |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 614 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

**Modelled number of days above 25 ug/m3 PM2.5**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 623 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 735 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 28 | 7 | 0 | 0 | - |
| 797 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 5 | 0 | 0 | - |
| 799 | Community Infrastructure | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 5 | 0 | 0 | - |
| 800 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 5 | 0 | 0 | - |
| 829 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 830 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 833 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | - |
| 834 | Private - Commercial | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 835 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 836 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 837 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 838 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 839 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 840 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 843 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 846 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 847 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 852 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 855 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 856 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 949 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 950 | Private - Dwelling | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled annual average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.1 | 8 |
| DL14 | Monitor | - | - | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.8 | 0.5 | 0.7 | 1.0 | 0.9 | 0.3 | 0.9 | 0.6 | 0.9 | 1.2 | 1.2 | 0.6 | 7.5 | 13.0 | 11.2 | 10.0 | 7.2 | 5.9 | 8 |
| D118 | Monitor | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.7 | 0.3 | 0.4 | 0.5 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.8 | 1.1 | 0.7 | 6.6 | 6.8 | 6.9 | 8.2 | 7.1 | 5.9 | 8 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 0.9 | 7.0 | 7.3 | 7.2 | 7.2 | 6.7 | 6.2 | 8 |
| DL22 | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 1.5 | 1.4 | 1.2 | 1.0 | 0.7 | 0.2 | 1.6 | 1.6 | 1.5 | 1.4 | 1.3 | 0.9 | 7.7 | 8.1 | 8.0 | 7.9 | 6.9 | 6.1 | 8 |
| DL21 | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 1.0 | 0.9 | 0.8 | 0.5 | 0.4 | 0.3 | 0.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.2 | 1.1 | 7.0 | 7.4 | 7.3 | 7.3 | 6.8 | 6.3 | 8 |
| D122 | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 6.3 | 6.5 | 6.6 | 6.6 | 6.2 | 5.7 | 8 |
| DL30 | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 2.3 | 2.1 | 2.7 | 2.7 | 2.1 | 0.7 | 2.3 | 2.2 | 3.0 | 3.0 | 2.6 | 1.2 | 8.6 | 9.7 | 10.2 | 10.1 | 8.2 | 6.5 | 8 |
| DL2 | Monitor | - | - | 0.2 | 0.5 | 1.0 | 1.3 | 1.9 | 2.5 | 1.3 | 1.2 | 0.7 | 0.6 | 0.4 | 0.1 | 1.5 | 1.6 | 1.7 | 1.9 | 2.3 | 2.6 | 8.0 | 8.4 | 8.5 | 8.6 | 8.5 | 7.9 | 8 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.8 | 0.5 | 0.7 | 1.0 | 0.9 | 0.3 | 0.9 | 0.6 | 0.9 | 1.2 | 1.2 | 0.6 | 7.5 | 13.0 | 11.2 | 10.0 | 7.2 | 5.9 | 8 |
| Cheshunt East | Monitor | - | - | 0.3 | 0.6 | 1.2 | 1.5 | 1.9 | 2.4 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 1.1 | 1.3 | 1.7 | 2.0 | 2.2 | 2.5 | 8.3 | 8.8 | 9.2 | 9.4 | 9.0 | 7.8 | 8 |
| Long Point | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.1 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 6.5 | 6.7 | 6.8 | 6.8 | 6.3 | 5.7 | 8 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.7 | 0.4 | 0.4 | 0.5 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.8 | 1.1 | 0.7 | 6.6 | 6.9 | 6.9 | 8.2 | 7.1 | 5.9 | 8 |
| Wandewoi | Monitor | - | - | 0.2 | 0.4 | 0.8 | 1.1 | 1.8 | 1.9 | 2.3 | 1.1 | 1.3 | 1.5 | 2.3 | 0.9 | 2.4 | 1.5 | 2.1 | 2.6 | 4.1 | 2.9 | 8.1 | 7.6 | 8.4 | 9.1 | 9.8 | 8.1 | 8 |
| Howick | Monitor | - | - | 3.5 | 4.6 | 4.9 | 2.8 | 1.4 | 1.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 3.8 | 4.8 | 5.1 | 3.0 | 1.6 | 1.4 | 12.7 | 14.4 | 14.7 | 12.6 | 10.7 | 6.7 | 8 |
| Golden Highway | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.2 | 0.5 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 10.7 | 13.9 | 14.0 | 13.9 | 6.2 | 5.6 | 8 |
| HC1 Conveyor | Monitor | - | - | 3.8 | 11.8 | 16.5 | 25.9 | 4.9 | 6.2 | 0.8 | 0.8 | 0.6 | 0.5 | 0.3 | 0.1 | 4.7 | 12.5 | 17.1 | 26.4 | 5.3 | 6.3 | 12.2 | 25.5 | 30.1 | 39.4 | 17.8 | 11.6 | 8 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 6.5 | 8 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.6 | 0.4 | 0.5 | 0.7 | 0.7 | 0.2 | 0.7 | 0.5 | 0.7 | 0.9 | 0.9 | 0.5 | 7.5 | 10.4 | 9.8 | 9.3 | 6.7 | 5.7 | 8 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.5 | 1.4 | 1.0 | 0.8 | 0.6 | 0.2 | 1.6 | 1.6 | 1.4 | 1.2 | 1.3 | 0.9 | 7.7 | 8.0 | 7.8 | 7.7 | 6.9 | 6.2 | 8 |
| Jerrys Plains | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.1 | 0.5 | 0.5 | 0.7 | 0.7 | 0.9 | 0.7 | 5.9 | 6.0 | 6.3 | 6.3 | 6.3 | 5.9 | 8 |
| Cheshunt East | Monitor | - | - | 0.3 | 0.6 | 1.2 | 1.5 | 1.9 | 2.4 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 1.1 | 1.3 | 1.7 | 2.0 | 2.2 | 2.5 | 8.3 | 8.8 | 9.2 | 9.4 | 9.0 | 7.8 | 8 |
| HVGC | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 2.7 | 1.9 | 2.9 | 3.0 | 3.0 | 1.0 | 2.7 | 2.0 | 3.1 | 3.3 | 3.5 | 1.6 | 9.0 | 10.4 | 11.0 | 10.6 | 9.2 | 6.8 | 8 |
| Long Point | Monitor | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.1 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 6.5 | 6.7 | 6.8 | 6.8 | 6.3 | 5.7 | 8 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.7 | 0.4 | 0.4 | 0.5 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.8 | 1.1 | 0.7 | 6.6 | 6.9 | 6.9 | 8.2 | 7.1 | 5.9 | 8 |
| Kilburnie South | Monitor | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.7 | 0.3 | 0.4 | 0.5 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.8 | 1.1 | 0.7 | 6.6 | 6.8 | 6.9 | 8.2 | 7.1 | 5.9 | 8 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.9 | 1.1 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 6.4 | 8 |
| Maison Dieu | Monitor | - | - | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 6.5 | 8 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 0.9 | 7.0 | 7.3 | 7.2 | 7.2 | 6.7 | 6.2 | 8 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.5 | 5.6 | 5.6 | 5.6 | 5.4 | 5.3 | 8 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.5 | 5.6 | 5.7 | 5.7 | 5.4 | 5.3 | 8 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.6 | 5.7 | 5.7 | 5.7 | 5.4 | 5.3 | 8 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464) | Warkworth (Noise & AQ) [SSD6464) | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.7 | 0.4 | 0.6 | 0.8 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.9 | 0.9 | 0.5 | 7.5 | 10.6 | 9.9 | 9.4 | 6.7 | 5.7 | 8 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.0 | 7.0 | 7.3 | 7.2 | 7.2 | 6.7 | 6.2 | 8 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | 0.9 | 0.7 | 0.5 | 0.4 | 0.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.1 | 0.9 | 7.2 | 7.5 | 7.4 | 7.3 | 6.7 | 6.2 | 8 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 6.9 | 7.2 | 7.2 | 7.2 | 6.7 | 6.2 | 8 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 0.9 | 0.8 | 0.6 | 0.5 | 0.4 | 0.1 | 1.0 | 1.0 | 0.9 | 0.9 | 1.1 | 0.9 | 7.0 | 7.3 | 7.3 | 7.3 | 6.7 | 6.2 | 8 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 6.9 | 7.2 | 7.2 | 7.2 | 6.7 | 6.2 | 8 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.7 | 0.7 | 0.4 | 6.6 | 6.9 | 7.0 | 7.1 | 6.2 | 5.7 | 8 |
| 127 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.1 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 6.9 | 7.1 | 7.2 | 7.2 | 6.6 | 5.9 | 8 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.1 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.5 | 6.6 | 6.9 | 7.0 | 7.0 | 6.3 | 5.7 | 8 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.1 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.5 | 6.5 | 6.8 | 6.9 | 6.9 | 6.3 | 5.7 | 8 |
| 134 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.1 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.5 | 6.5 | 6.7 | 6.8 | 6.8 | 6.3 | 5.7 | 8 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.1 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.5 | 6.4 | 6.6 | 6.7 | 6.7 | 6.2 | 5.7 | 8 |
| 141 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 | 6.5 | 6.7 | 6.8 | 6.8 | 6.4 | 5.8 | 8 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.0 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.9 | 0.9 | 0.9 | 1.0 | 1.2 | 1.1 | 6.9 | 7.3 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.1 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.1 | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.9 | 7.2 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.1 | 0.6 | 0.6 | 0.4 | 0.3 | 0.3 | 0.1 | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.9 | 7.2 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.9 | 1.1 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 6.4 | 8 |
| 167 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.6 | 6.4 | 6.6 | 6.7 | 6.7 | 6.3 | 5.8 | 8 |
| 169 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 | 6.5 | 6.7 | 6.7 | 6.7 | 6.3 | 5.8 | 8 |
| 170 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.5 | 6.5 | 6.6 | 6.7 | 6.7 | 6.4 | 5.8 | 8 |
| 173 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.1 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.5 | 6.4 | 6.6 | 6.6 | 6.6 | 6.2 | 5.7 | 8 |
| 174 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 6.3 | 6.5 | 6.6 | 6.6 | 6.2 | 5.7 | 8 |
| 175 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 6.4 | 6.5 | 6.6 | 6.6 | 6.2 | 5.7 | 8 |
| 176 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 6.3 | 6.4 | 6.5 | 6.5 | 6.2 | 5.7 | 8 |
| 178 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 6.2 | 6.3 | 6.4 | 6.4 | 6.1 | 5.7 | 8 |
| 179 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 6.1 | 6.2 | 6.3 | 6.3 | 6.1 | 5.7 | 8 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 0.9 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 | 6.8 | 7.1 | 7.2 | 7.3 | 6.8 | 6.3 | 8 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 1.0 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.0 | 6.8 | 7.1 | 7.2 | 7.3 | 6.8 | 6.3 | 8 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 1.0 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 | 6.8 | 7.1 | 7.3 | 7.3 | 6.9 | 6.3 | 8 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 0.9 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 | 6.8 | 7.1 | 7.3 | 7.3 | 6.9 | 6.3 | 8 |
| 248 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 6.3 | 6.4 | 6.5 | 6.5 | 6.2 | 5.7 | 8 |
| 249 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 6.3 | 6.4 | 6.5 | 6.5 | 6.2 | 5.7 | 8 |
| 250 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 6.1 | 6.2 | 6.3 | 6.3 | 6.1 | 5.6 | 8 |
| 251 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 6.0 | 6.1 | 6.2 | 6.2 | 6.0 | 5.6 | 8 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.1 | 0.7 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.9 | 1.1 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.1 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 6.4 | 8 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 1.0 | 0.7 | 0.6 | 0.4 | 0.3 | 0.3 | 0.1 | 0.8 | 0.8 | 0.9 | 0.9 | 1.1 | 1.1 | 6.9 | 7.2 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 1.0 | 0.8 | 0.7 | 0.5 | 0.4 | 0.3 | 0.1 | 0.9 | 0.9 | 0.9 | 1.0 | 1.2 | 1.1 | 7.0 | 7.3 | 7.3 | 7.3 | 6.9 | 6.4 | 8 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.6 | 0.5 | 0.7 | 0.7 | 0.7 | 0.4 | 6.5 | 6.9 | 7.0 | 7.0 | 6.2 | 5.7 | 8 |
| 264 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.6 | 0.4 | 0.5 | 0.7 | 0.7 | 0.2 | 0.7 | 0.5 | 0.7 | 0.9 | 0.9 | 0.5 | 7.5 | 10.4 | 9.8 | 9.4 | 6.7 | 5.7 | 8 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.6 | 5.7 | 5.7 | 5.7 | 5.4 | 5.3 | 8 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.1 | 0.1 | 0.3 | 0.3 | 0.5 | 0.5 | 0.8 | 0.4 | 0.5 | 0.6 | 0.8 | 0.3 | 0.8 | 0.5 | 0.8 | 0.9 | 1.3 | 0.8 | 6.6 | 7.0 | 7.0 | 8.3 | 7.3 | 6.0 | 8 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.1 | 0.1 | 0.3 | 0.3 | 0.5 | 0.5 | 0.7 | 0.4 | 0.4 | 0.5 | 0.7 | 0.3 | 0.7 | 0.5 | 0.7 | 0.9 | 1.1 | 0.7 | 6.5 | 6.8 | 6.9 | 8.0 | 7.1 | 5.9 | 8 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.6 | 0.8 | 0.5 | 0.6 | 0.6 | 0.9 | 0.3 | 0.9 | 0.6 | 0.9 | 1.0 | 1.4 | 0.9 | 6.6 | 6.8 | 6.9 | 7.7 | 7.2 | 6.1 | 8 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.6 | 0.8 | 0.5 | 0.6 | 0.6 | 0.9 | 0.3 | 0.9 | 0.6 | 0.9 | 1.0 | 1.4 | 0.9 | 6.6 | 6.7 | 6.9 | 7.6 | 7.2 | 6.1 | 8 |
| 321 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.7 | 0.5 | 0.5 | 0.6 | 0.7 | 0.3 | 0.8 | 0.6 | 0.8 | 0.9 | 1.3 | 0.9 | 6.4 | 6.5 | 6.7 | 7.1 | 6.9 | 6.1 | 8 |
| 322 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.7 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.8 | 6.0 | 8 |
| 324 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.7 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 7.0 | 6.8 | 6.0 | 8 |
| 326 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.7 | 0.8 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.9 | 1.0 | 1.3 | 1.0 | 6.2 | 6.3 | 6.6 | 6.7 | 6.8 | 6.2 | 8 |
| 327 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.8 | 0.8 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.9 | 1.0 | 1.3 | 1.0 | 6.2 | 6.3 | 6.6 | 6.7 | 6.8 | 6.2 | 8 |
| 328 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.8 | 0.8 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.7 | 0.9 | 1.0 | 1.4 | 1.0 | 6.3 | 6.4 | 6.6 | 6.8 | 6.8 | 6.2 | 8 |
| 330 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.7 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.9 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.1 | 8 |
| 331 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.9 | 1.0 | 1.3 | 0.9 | 6.3 | 6.3 | 6.6 | 6.8 | 6.8 | 6.2 | 8 |
| 332 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.1 | 8 |
| 333 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 334 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 335 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 336 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.9 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.7 | 6.7 | 6.1 | 8 |
| 337 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.1 | 8 |
| 338 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.7 | 6.7 | 6.1 | 8 |
| 339 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.8 | 0.8 | 1.0 | 0.7 | 6.1 | 6.2 | 6.5 | 6.6 | 6.5 | 5.9 | 8 |
| 340 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.5 | 0.8 | 0.8 | 1.1 | 0.7 | 6.1 | 6.2 | 6.5 | 6.6 | 6.5 | 5.9 | 8 |
| 341 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.2 | 6.5 | 6.6 | 6.5 | 6.0 | 8 |
| 342 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 343 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 344 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 345 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 346 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 347 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 348 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.7 | 6.7 | 6.1 | 8 |
| 349 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.1 | 8 |
| 350 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.0 | 8 |
| 351 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 352 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 353 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 355 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 356 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 357 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.0 | 8 |
| 358 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 359 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 360 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 361 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.3 | 0.9 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 362 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.3 | 0.9 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 363 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 366 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 367 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |

**Modelled annual average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 369 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 370 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.0 | 8 |
| 371 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 372 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 373 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.7 | 6.0 | 8 |
| 374 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 375 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 376 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 377 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 380 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 381 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 382 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 383 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 384 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.7 | 6.0 | 8 |
| 385 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 386 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 389 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 390 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 391 | Private - Commercial | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 392 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 393 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 394 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 395 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.1 | 8 |
| 396 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 397 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 398 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 399 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 400 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 401 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 402 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 403 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 404 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 405 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 406 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 407 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 408 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 409 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 410 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 411 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 412 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 5.9 | 8 |
| 413 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.5 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 5.9 | 8 |
| 414 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 5.9 | 8 |
| 415 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.7 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 5.9 | 8 |
| 417 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.7 | 6.0 | 8 |
| 418 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 419 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 6.2 | 6.2 | 6.4 | 6.7 | 6.5 | 5.9 | 8 |
| 420 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 421 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 422 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 423 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 425 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.5 | 0.4 | 0.6 | 0.7 | 0.8 | 0.6 | 6.0 | 6.1 | 6.3 | 6.4 | 6.3 | 5.8 | 8 |
| 426 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.3 | 0.4 | 0.4 | 0.2 | 0.5 | 0.4 | 0.6 | 0.7 | 0.8 | 0.6 | 6.0 | 6.1 | 6.3 | 6.5 | 6.3 | 5.8 | 8 |
| 427 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 6.2 | 6.2 | 6.4 | 6.7 | 6.5 | 5.9 | 8 |
| 428 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 6.2 | 6.3 | 6.5 | 6.7 | 6.5 | 5.9 | 8 |
| 429 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.1 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 430 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.2 | 0.7 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 6.2 | 6.3 | 6.5 | 6.8 | 6.5 | 5.9 | 8 |
| 431 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 7.0 | 6.7 | 6.0 | 8 |
| 432 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.7 | 1.0 | 0.6 | 6.2 | 6.3 | 6.4 | 6.8 | 6.5 | 5.8 | 8 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.4 | 0.6 | 0.7 | 0.9 | 0.6 | 6.2 | 6.2 | 6.4 | 6.7 | 6.4 | 5.8 | 8 |
| 434 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.6 | 0.8 | 0.5 | 0.6 | 0.6 | 0.8 | 0.3 | 0.9 | 0.7 | 0.9 | 1.0 | 1.4 | 1.0 | 6.5 | 6.7 | 6.9 | 7.5 | 7.1 | 6.2 | 8 |
| 436 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 0.5 | 0.5 | 0.6 | 0.8 | 0.3 | 0.8 | 0.6 | 0.8 | 1.0 | 1.3 | 0.9 | 6.5 | 6.6 | 6.8 | 7.4 | 7.0 | 6.1 | 8 |
| 437 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.8 | 0.8 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.9 | 1.0 | 1.3 | 1.0 | 6.2 | 6.3 | 6.6 | 6.7 | 6.8 | 6.2 | 8 |
| 438 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.1 | 6.2 | 6.4 | 6.5 | 6.6 | 6.1 | 8 |
| 440 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.5 | 0.5 | 0.7 | 0.4 | 0.5 | 0.5 | 0.7 | 0.3 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.4 | 6.5 | 6.7 | 7.3 | 6.9 | 6.0 | 8 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.4 | 0.3 | 0.4 | 0.5 | 0.6 | 0.4 | 6.1 | 6.1 | 6.2 | 6.6 | 6.1 | 5.6 | 8 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.4 | 0.3 | 0.4 | 0.5 | 0.6 | 0.4 | 6.1 | 6.1 | 6.2 | 6.5 | 6.1 | 5.6 | 8 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 6.0 | 6.1 | 6.1 | 6.4 | 6.0 | 5.6 | 8 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 6.0 | 6.1 | 6.2 | 6.4 | 6.0 | 5.5 | 8 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | 6.0 | 6.0 | 6.1 | 6.3 | 5.9 | 5.5 | 8 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 5.9 | 5.9 | 6.0 | 6.2 | 5.8 | 5.5 | 8 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 5.9 | 5.9 | 6.0 | 6.1 | 5.8 | 5.5 | 8 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 5.8 | 5.9 | 6.0 | 6.1 | 5.8 | 5.5 | 8 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 5.9 | 6.0 | 6.1 | 6.3 | 6.0 | 5.5 | 8 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.2 | 0.4 | 0.4 | 0.5 | 0.3 | 5.9 | 5.9 | 6.0 | 6.2 | 5.9 | 5.5 | 8 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | 5.9 | 5.9 | 6.0 | 6.2 | 5.9 | 5.5 | 8 |
| 463 | Glencore Owned - Occupied | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.5 | 0.5 | 0.8 | 0.4 | 0.5 | 0.6 | 0.8 | 0.3 | 0.9 | 0.6 | 0.8 | 0.9 | 1.3 | 0.8 | 6.6 | 6.9 | 7.0 | 8.1 | 7.3 | 6.1 | 8 |
| 464 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.2 | 0.3 | 0.3 | 0.4 | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.7 | 0.5 | 5.9 | 6.0 | 6.1 | 6.3 | 6.1 | 5.7 | 8 |
| 466 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.1 | 0.5 | 0.4 | 0.6 | 0.7 | 0.8 | 0.6 | 6.0 | 6.1 | 6.3 | 6.4 | 6.2 | 5.8 | 8 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 0.3 | 0.5 | 1.0 | 1.0 | 0.9 | 1.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.5 | 0.7 | 1.1 | 1.2 | 1.0 | 1.0 | 8.1 | 8.5 | 8.9 | 8.9 | 8.0 | 6.4 | 8 |
| 472 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 5.5 | 5.6 | 5.6 | 5.6 | 5.5 | 5.4 | 8 |
| 473 | Private - Commercial | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 5.7 | 5.7 | 5.8 | 5.8 | 5.6 | 5.4 | 8 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 6.0 | 6.0 | 6.1 | 6.4 | 6.0 | 5.6 | 8 |
| 481 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.7 | 6.2 | 6.2 | 6.4 | 6.7 | 6.5 | 5.9 | 8 |
| 482 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.9 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 483 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 484 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.7 | 6.1 | 8 |
| 487 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.5 | 0.8 | 0.8 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.2 | 0.7 | 0.6 | 0.9 | 0.9 | 1.2 | 0.9 | 6.1 | 6.2 | 6.5 | 6.6 | 6.7 | 6.1 | 8 |
| 488 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.5 | 0.3 | 0.3 | 0.3 | 0.4 | 0.1 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.8 | 6.0 | 6.1 | 6.3 | 6.4 | 6.4 | 6.0 | 8 |
| 489 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.5 | 0.3 | 0.3 | 0.3 | 0.4 | 0.1 | 0.6 | 0.5 | 0.7 | 0.8 | 1.0 | 0.8 | 6.0 | 6.1 | 6.3 | 6.4 | 6.4 | 6.0 | 8 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.1 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 6.8 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0.1 | 0.2 | 0.5 | 0.6 | 0.8 | 1.0 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.0 | 6.8 | 7.1 | 7.2 | 7.3 | 6.8 | 6.3 | 8 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 0.3 | 0.5 | 0.9 | 0.9 | 0.7 | 0.8 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.7 | 1.0 | 1.0 | 0.8 | 0.8 | 7.8 | 8.3 | 8.6 | 8.6 | 7.7 | 6.1 | 8 |
| 507 | Community Infrastructure | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 6.9 | 10.3 | 10.3 | 10.6 | 6.3 | 5.9 | 8 |
| 511 | Community Infrastructure | - | - | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 6.6 | 8.1 | 8.1 | 8.4 | 6.1 | 5.8 | 8 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 7.0 | 8.5 | 8.6 | 8.9 | 6.4 | 6.0 | 8 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.5 | 0.4 | 0.3 | 0.2 | 8.6 | 14.0 | 14.1 | 13.8 | 7.1 | 5.8 | 8 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 7.0 | 8.4 | 8.5 | 8.9 | 6.3 | 6.0 | 8 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 7.2 | 8.8 | 8.9 | 9.3 | 6.4 | 6.0 | 8 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 7.2 | 8.8 | 8.9 | 9.3 | 6.4 | 6.0 | 8 |
| 614 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 7.2 | 8.8 | 8.9 | 9.3 | 6.4 | 6.0 | 8 |

**Modelled annual average PM2.5 concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.8 | 0.6 | 0.4 | 0.4 | 8.7 | 9.6 | 9.9 | 9.5 | 7.5 | 5.9 | 8 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 0.3 | 0.5 | 0.8 | 0.7 | 0.5 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.9 | 0.8 | 0.6 | 0.5 | 9.6 | 10.5 | 10.8 | 10.6 | 8.5 | 5.9 | 8 |
| 623 | Community Infrastructure | - | - | 0.3 | 0.5 | 0.9 | 0.7 | 0.5 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.7 | 1.0 | 0.8 | 0.5 | 0.5 | 8.6 | 9.4 | 9.7 | 9.3 | 7.7 | 5.9 | 8 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0.3 | 0.5 | 0.8 | 0.7 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.6 | 0.9 | 0.8 | 0.5 | 0.5 | 8.8 | 9.7 | 9.9 | 9.5 | 7.8 | 5.9 | 8 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 0.3 | 0.5 | 0.8 | 0.7 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.9 | 0.8 | 0.5 | 0.4 | 9.1 | 10.0 | 10.2 | 9.8 | 7.8 | 6.0 | 8 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.3 | 0.5 | 0.8 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 9.0 | 9.9 | 10.1 | 9.7 | 7.7 | 5.9 | 8 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.3 | 0.5 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.5 | 0.4 | 8.9 | 9.8 | 10.0 | 9.6 | 7.6 | 5.9 | 8 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 0.3 | 0.5 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.6 | 0.8 | 0.7 | 0.4 | 0.4 | 9.0 | 9.7 | 10.0 | 9.5 | 7.5 | 5.9 | 8 |
| 735 | Private - Commercial | - | - | 0.3 | 0.5 | 0.7 | 0.6 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.6 | 0.9 | 0.7 | 0.5 | 0.4 | 11.2 | 14.7 | 15.0 | 11.7 | 8.4 | 6.5 | 8 |
| 797 | Community Infrastructure | - | - | 0.4 | 0.6 | 0.8 | 0.6 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.7 | 0.9 | 0.7 | 0.5 | 0.4 | 11.5 | 14.4 | 14.6 | 11.6 | 8.6 | 6.5 | 8 |
| 799 | Community Infrastructure | - | - | 0.4 | 0.6 | 0.8 | 0.6 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.7 | 0.9 | 0.7 | 0.5 | 0.4 | 11.5 | 14.4 | 14.6 | 11.6 | 8.6 | 6.5 | 8 |
| 800 | Private - Commercial | - | - | 0.4 | 0.6 | 0.8 | 0.6 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.7 | 0.9 | 0.7 | 0.5 | 0.4 | 11.5 | 14.4 | 14.6 | 11.6 | 8.6 | 6.5 | 8 |
| 829 | Private - Commercial | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 0.8 | 0.5 | 7.0 | 7.5 | 7.7 | 7.7 | 6.3 | 5.7 | 8 |
| 830 | Private - Commercial | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.2 | 0.6 | 0.5 | 0.7 | 0.8 | 0.8 | 0.5 | 7.3 | 8.2 | 8.3 | 8.4 | 6.3 | 5.7 | 8 |
| 833 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 2.7 | 1.9 | 2.9 | 3.1 | 3.2 | 1.1 | 2.8 | 2.0 | 3.1 | 3.4 | 3.6 | 1.7 | 9.0 | 10.7 | 11.1 | 10.7 | 9.4 | 6.9 | 8 |
| 834 | Private - Commercial | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.8 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.4 | 6.6 | 6.9 | 6.7 | 6.0 | 8 |
| 835 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.6 | 6.8 | 6.7 | 6.1 | 8 |
| 836 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 837 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.0 | 8 |
| 838 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.2 | 0.8 | 6.3 | 6.3 | 6.6 | 6.8 | 6.7 | 6.0 | 8 |
| 839 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.8 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 840 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.6 | 0.2 | 0.7 | 0.6 | 0.8 | 0.9 | 1.1 | 0.8 | 6.2 | 6.3 | 6.5 | 6.8 | 6.6 | 6.0 | 8 |
| 843 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 6.2 | 6.3 | 6.4 | 6.4 | 6.2 | 5.7 | 8 |
| 846 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 6.8 | 6.9 | 7.0 | 7.0 | 6.6 | 5.8 | 8 |
| 847 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 6.6 | 6.7 | 6.8 | 6.8 | 6.5 | 5.8 | 8 |
| 852 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 6.5 | 6.6 | 6.7 | 6.8 | 6.4 | 5.8 | 8 |
| 855 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.1 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 6.3 | 6.5 | 6.5 | 6.5 | 6.2 | 5.7 | 8 |
| 856 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 6.4 | 6.6 | 6.6 | 6.7 | 6.3 | 5.7 | 8 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.3 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.8 | 0.7 | 0.5 | 0.4 | 9.1 | 10.6 | 10.8 | 10.5 | 7.8 | 5.9 | 8 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.2 | 0.4 | 0.5 | 0.5 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.4 | 0.6 | 0.5 | 0.4 | 0.3 | 9.1 | 11.1 | 11.3 | 10.8 | 7.4 | 5.9 | 8 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.3 | 0.4 | 0.7 | 0.5 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.7 | 0.6 | 0.4 | 0.3 | 10.2 | 11.1 | 11.3 | 10.6 | 7.8 | 6.0 | 8 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.3 | 0.4 | 0.6 | 0.5 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.7 | 0.6 | 0.4 | 0.3 | 10.0 | 11.2 | 11.4 | 10.7 | 7.7 | 6.0 | 8 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.2 | 0.4 | 0.8 | 0.9 | 0.9 | 1.0 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.5 | 0.6 | 1.0 | 1.1 | 1.1 | 1.1 | 7.3 | 7.6 | 7.9 | 8.0 | 7.4 | 6.4 | 8 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.2 | 0.4 | 0.8 | 0.9 | 0.9 | 1.0 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.5 | 0.6 | 0.9 | 1.0 | 1.0 | 1.0 | 7.2 | 7.6 | 7.9 | 8.0 | 7.4 | 6.3 | 8 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0.1 | 0.3 | 0.6 | 0.7 | 1.0 | 1.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 6.7 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |
| 949 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.7 | 1.0 | 1.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 6.7 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |
| 950 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.7 | 1.0 | 1.1 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.2 | 6.7 | 7.1 | 7.2 | 7.3 | 7.0 | 6.5 | 8 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled annual average TSP concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.8 | 1.4 | 1.5 | 1.8 | 2.0 | 0.6 | 1.9 | 1.5 | 1.8 | 2.2 | 2.7 | 1.4 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| DL14 | Monitor | - | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.4 | 2.8 | 1.4 | 1.6 | 0.9 | 0.7 | 0.5 | 0.1 | 1.6 | 2.1 | 1.9 | 2.2 | 2.8 | 3.0 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 1.4 | 0.8 | 1.5 | 3.1 | 2.1 | 0.8 | 1.4 | 0.9 | 1.6 | 3.2 | 2.4 | 1.0 | 63 | 80 | 75 | 73 | 63 | 58 | 90 |
| D118 | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 1.7 | 0.9 | 1.4 | 1.9 | 2.1 | 0.8 | 1.7 | 0.9 | 1.5 | 2.1 | 2.4 | 1.1 | 60 | 61 | 61 | 66 | 62 | 58 | 90 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.3 | 0.7 | 1.0 | 1.6 | 1.9 | 3.3 | 3.6 | 2.0 | 1.4 | 1.0 | 0.2 | 3.4 | 3.9 | 2.7 | 2.5 | 2.6 | 2.1 | 61 | 62 | 61 | 60 | 60 | 59 | 90 |
| DL22 | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.0 | 1.2 | 6.1 | 7.3 | 5.7 | 4.5 | 2.9 | 0.6 | 6.2 | 7.5 | 6.1 | 5.2 | 4.0 | 1.8 | 64 | 66 | 65 | 64 | 61 | 59 | 90 |
| DL21 | Monitor | - | - | 0.1 | 0.3 | 0.7 | 1.2 | 1.9 | 2.3 | 3.6 | 4.0 | 1.9 | 1.3 | 0.9 | 0.2 | 3.7 | 4.3 | 2.7 | 2.5 | 2.8 | 2.5 | 61 | 62 | 61 | 60 | 60 | 59 | 90 |
| D122 | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.8 | 0.8 | 1.8 | 2.0 | 1.7 | 1.4 | 1.1 | 0.3 | 1.9 | 2.2 | 2.0 | 2.0 | 1.9 | 1.1 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| DL30 | Monitor | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 6.5 | 7.2 | 10.2 | 11.6 | 8.7 | 2.2 | 6.5 | 7.3 | 10.4 | 12.0 | 9.4 | 2.9 | 65 | 68 | 71 | 72 | 67 | 60 | 90 |
| DL2 | Monitor | - | - | 0.4 | 0.9 | 2.2 | 3.6 | 5.4 | 7.0 | 2.0 | 2.2 | 1.4 | 1.0 | 0.6 | 0.2 | 2.3 | 3.1 | 3.6 | 4.6 | 6.0 | 7.2 | 60 | 61 | 62 | 63 | 64 | 64 | 90 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 1.4 | 0.8 | 1.5 | 3.1 | 2.1 | 0.8 | 1.4 | 0.9 | 1.6 | 3.2 | 2.4 | 1.0 | 63 | 80 | 75 | 73 | 63 | 58 | 90 |
| Cheshunt East | Monitor | - | - | 0.6 | 1.5 | 3.2 | 4.7 | 5.7 | 7.4 | 1.1 | 1.2 | 0.9 | 0.7 | 0.4 | 0.2 | 1.7 | 2.6 | 4.1 | 5.4 | 6.2 | 7.6 | 60 | 61 | 63 | 64 | 65 | 65 | 90 |
| Long Point | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 2.2 | 2.5 | 2.2 | 2.0 | 1.5 | 0.4 | 2.3 | 2.6 | 2.5 | 2.4 | 2.2 | 1.1 | 60 | 61 | 60 | 60 | 59 | 58 | 90 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 1.7 | 0.9 | 1.4 | 1.9 | 2.2 | 0.8 | 1.7 | 1.0 | 1.5 | 2.2 | 2.5 | 1.1 | 60 | 61 | 61 | 66 | 62 | 58 | 90 |
| Wandewoi | Monitor | - | - | 0.1 | 0.3 | 0.6 | 1.1 | 1.7 | 2.1 | 6.7 | 3.8 | 4.6 | 6.1 | 7.5 | 2.8 | 6.8 | 4.1 | 5.3 | 7.2 | 9.3 | 4.9 | 64 | 63 | 64 | 67 | 67 | 62 | 90 |
| Howick | Monitor | - | - | 5.3 | 7.0 | 8.1 | 3.9 | 1.2 | 1.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 5.6 | 7.3 | 8.4 | 4.1 | 1.4 | 1.3 | 70 | 73 | 74 | 70 | 66 | 59 | 90 |
| Golden Highway | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 1.1 | 0.8 | 1.2 | 1.7 | 1.4 | 0.5 | 1.1 | 0.9 | 1.3 | 1.8 | 1.6 | 0.7 | 78 | 91 | 91 | 91 | 59 | 58 | 90 |
| HC1 Conveyor | Monitor | - | - | 13.9 | 74.2 | 103.9 | 186.8 | 14.5 | 17.1 | 1.5 | 1.7 | 1.2 | 1.2 | 0.8 | 0.3 | 15.4 | 76.0 | 105.1 | 188.0 | 15.3 | 17.4 | 76 | 210 | 239 | 322 | 148 | 74 | 90 |
| Maison Dieu | Monitor | - | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.3 | 2.8 | 1.5 | 1.7 | 0.9 | 0.7 | 0.5 | 0.1 | 1.7 | 2.1 | 1.9 | 2.2 | 2.8 | 2.9 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| Warkworth | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 1.0 | 0.6 | 1.1 | 1.9 | 1.5 | 0.5 | 1.0 | 0.7 | 1.2 | 2.1 | 1.7 | 0.7 | 64 | 72 | 71 | 70 | 61 | 58 | 90 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.2 | 0.5 | 0.8 | 1.3 | 1.5 | 6.5 | 7.3 | 4.9 | 3.5 | 2.3 | 0.5 | 6.6 | 7.6 | 5.4 | 4.3 | 3.5 | 1.9 | 64 | 66 | 64 | 63 | 61 | 59 | 90 |
| Jerrys Plains | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 1.1 | 1.1 | 1.0 | 0.8 | 0.9 | 1.0 | 1.0 | 0.3 | 1.1 | 1.0 | 1.3 | 1.5 | 2.1 | 1.4 | 58 | 59 | 59 | 59 | 59 | 58 | 90 |
| Cheshunt East | Monitor | - | - | 0.6 | 1.5 | 3.2 | 4.7 | 5.7 | 7.4 | 1.1 | 1.2 | 0.9 | 0.7 | 0.4 | 0.2 | 1.7 | 2.6 | 4.1 | 5.4 | 6.2 | 7.6 | 60 | 61 | 63 | 64 | 65 | 65 | 90 |
| HVGC | Monitor | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 7.1 | 5.1 | 11.0 | 12.3 | 11.4 | 3.6 | 7.1 | 5.2 | 11.2 | 12.6 | 11.9 | 4.2 | 66 | 67 | 73 | 74 | 70 | 61 | 90 |
| Long Point | Monitor | - | - | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 2.2 | 2.5 | 2.2 | 2.0 | 1.5 | 0.4 | 2.3 | 2.6 | 2.5 | 2.4 | 2.2 | 1.1 | 60 | 61 | 60 | 60 | 59 | 58 | 90 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 1.7 | 0.9 | 1.4 | 1.9 | 2.2 | 0.8 | 1.7 | 1.0 | 1.5 | 2.2 | 2.5 | 1.1 | 60 | 61 | 61 | 66 | 62 | 58 | 90 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 1.7 | 0.9 | 1.4 | 1.9 | 2.1 | 0.8 | 1.7 | 0.9 | 1.5 | 2.1 | 2.4 | 1.1 | 60 | 61 | 61 | 66 | 62 | 58 | 90 |
| Maison Dieu | Monitor | - | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.3 | 2.7 | 1.5 | 1.7 | 0.9 | 0.7 | 0.5 | 0.1 | 1.7 | 2.2 | 1.9 | 2.2 | 2.8 | 2.9 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| Maison Dieu | Monitor | - | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.3 | 2.8 | 1.5 | 1.7 | 0.9 | 0.7 | 0.5 | 0.1 | 1.7 | 2.1 | 1.9 | 2.2 | 2.8 | 2.9 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| Knodlers Lane | Monitor | - | - | 0.1 | 0.3 | 0.7 | 1.0 | 1.6 | 1.9 | 3.3 | 3.6 | 2.0 | 1.4 | 1.0 | 0.2 | 3.4 | 3.9 | 2.7 | 2.5 | 2.6 | 2.1 | 61 | 62 | 61 | 60 | 60 | 59 | 90 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 58 | 58 | 58 | 58 | 57 | 57 | 90 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 58 | 58 | 58 | 58 | 57 | 57 | 90 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 58 | 58 | 59 | 59 | 57 | 57 | 90 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464) | Warkworth (Noise & AQ) [SSD6464) | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 1.1 | 0.7 | 1.2 | 2.1 | 1.6 | 0.6 | 1.1 | 0.7 | 1.3 | 2.3 | 1.8 | 0.8 | 63 | 73 | 71 | 71 | 61 | 58 | 90 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.3 | 0.7 | 1.0 | 1.6 | 1.9 | 3.3 | 3.6 | 2.0 | 1.4 | 1.0 | 0.2 | 3.4 | 3.9 | 2.7 | 2.5 | 2.6 | 2.1 | 61 | 62 | 61 | 60 | 60 | 59 | 90 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.3 | 0.6 | 0.9 | 1.4 | 1.7 | 4.2 | 4.6 | 2.8 | 2.0 | 1.4 | 0.3 | 4.3 | 4.9 | 3.4 | 2.9 | 2.8 | 2.0 | 62 | 63 | 61 | 61 | 60 | 59 | 90 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.3 | 0.7 | 1.1 | 1.7 | 2.0 | 2.8 | 3.1 | 1.7 | 1.2 | 0.9 | 0.2 | 3.0 | 3.4 | 2.5 | 2.3 | 2.6 | 2.2 | 61 | 61 | 60 | 60 | 60 | 59 | 90 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.3 | 0.6 | 1.0 | 1.5 | 1.8 | 3.5 | 3.9 | 2.3 | 1.6 | 1.2 | 0.3 | 3.6 | 4.2 | 2.9 | 2.6 | 2.7 | 2.0 | 61 | 62 | 61 | 61 | 60 | 59 | 90 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.1 | 0.3 | 0.7 | 1.1 | 1.7 | 2.0 | 2.7 | 3.0 | 1.7 | 1.2 | 0.9 | 0.2 | 2.8 | 3.3 | 2.4 | 2.3 | 2.5 | 2.2 | 60 | 61 | 60 | 60 | 60 | 59 | 90 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.7 | 1.7 | 1.9 | 2.0 | 1.6 | 0.5 | 1.7 | 1.8 | 2.1 | 2.3 | 2.0 | 0.9 | 60 | 61 | 61 | 61 | 59 | 58 | 90 |
| 127 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.5 | 0.8 | 1.1 | 1.3 | 2.4 | 2.7 | 2.0 | 1.6 | 1.2 | 0.3 | 2.5 | 2.9 | 2.5 | 2.3 | 2.3 | 1.5 | 60 | 61 | 60 | 60 | 60 | 59 | 90 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.5 | 0.6 | 2.2 | 2.3 | 2.3 | 2.3 | 1.8 | 0.5 | 2.2 | 2.5 | 2.6 | 2.6 | 2.4 | 1.0 | 60 | 61 | 61 | 61 | 60 | 58 | 90 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | 2.3 | 2.6 | 2.4 | 2.1 | 1.7 | 0.4 | 2.4 | 2.7 | 2.7 | 2.6 | 2.3 | 1.1 | 60 | 61 | 61 | 61 | 60 | 58 | 90 |
| 134 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.7 | 2.3 | 2.5 | 2.3 | 2.0 | 1.6 | 0.4 | 2.3 | 2.7 | 2.6 | 2.5 | 2.2 | 1.1 | 60 | 61 | 61 | 60 | 59 | 58 | 90 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 2.1 | 2.3 | 2.1 | 2.0 | 1.5 | 0.4 | 2.2 | 2.5 | 2.4 | 2.4 | 2.1 | 1.0 | 60 | 60 | 60 | 60 | 59 | 58 | 90 |
| 141 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.8 | 1.1 | 1.2 | 1.6 | 1.7 | 1.3 | 1.0 | 0.8 | 0.2 | 1.7 | 2.0 | 1.8 | 1.8 | 1.9 | 1.4 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.4 | 0.8 | 1.3 | 2.0 | 2.4 | 2.8 | 3.1 | 1.5 | 1.0 | 0.7 | 0.2 | 2.9 | 3.5 | 2.3 | 2.3 | 2.8 | 2.6 | 61 | 61 | 60 | 60 | 60 | 60 | 90 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.4 | 2.2 | 2.6 | 1.9 | 2.2 | 1.1 | 0.8 | 0.6 | 0.1 | 2.1 | 2.6 | 2.0 | 2.2 | 2.7 | 2.7 | 60 | 60 | 60 | 60 | 60 | 60 | 90 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.4 | 2.1 | 2.6 | 2.0 | 2.3 | 1.1 | 0.8 | 0.6 | 0.1 | 2.2 | 2.7 | 2.0 | 2.2 | 2.7 | 2.7 | 60 | 61 | 60 | 60 | 60 | 60 | 90 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.2 | 2.6 | 1.6 | 1.8 | 1.0 | 0.7 | 0.5 | 0.1 | 1.8 | 2.2 | 1.9 | 2.2 | 2.7 | 2.8 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| 167 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.1 | 1.5 | 1.6 | 1.2 | 1.0 | 0.8 | 0.2 | 1.6 | 1.8 | 1.7 | 1.7 | 1.8 | 1.3 | 59 | 60 | 59 | 59 | 59 | 58 | 90 |
| 169 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.9 | 1.0 | 1.9 | 2.0 | 1.6 | 1.3 | 1.0 | 0.2 | 2.0 | 2.2 | 2.0 | 2.0 | 1.9 | 1.3 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 170 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.9 | 1.0 | 1.6 | 1.8 | 1.4 | 1.1 | 0.9 | 0.2 | 1.7 | 2.0 | 1.9 | 1.8 | 1.8 | 1.3 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 173 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 2.0 | 2.2 | 1.9 | 1.7 | 1.3 | 0.3 | 2.1 | 2.4 | 2.3 | 2.2 | 2.0 | 1.1 | 60 | 60 | 60 | 60 | 59 | 58 | 90 |
| 174 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.8 | 0.9 | 1.9 | 2.0 | 1.7 | 1.5 | 1.1 | 0.3 | 1.9 | 2.2 | 2.1 | 2.0 | 1.9 | 1.1 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 175 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.8 | 2.0 | 1.6 | 1.4 | 1.1 | 0.3 | 1.9 | 2.2 | 2.0 | 2.0 | 1.9 | 1.1 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 176 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.6 | 1.8 | 1.4 | 1.2 | 1.0 | 0.2 | 1.7 | 2.0 | 1.8 | 1.8 | 1.8 | 1.1 | 59 | 60 | 60 | 59 | 59 | 58 | 90 |
| 178 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.3 | 1.4 | 1.1 | 1.0 | 0.8 | 0.2 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.1 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 179 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 1.3 | 1.4 | 1.1 | 1.0 | 0.8 | 0.2 | 1.4 | 1.6 | 1.5 | 1.5 | 1.5 | 1.0 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.3 | 1.9 | 2.2 | 1.6 | 1.8 | 1.0 | 0.8 | 0.5 | 0.1 | 1.8 | 2.2 | 1.9 | 2.1 | 2.4 | 2.4 | 59 | 60 | 60 | 60 | 60 | 59 | 90 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.3 | 1.9 | 2.3 | 1.6 | 1.8 | 1.0 | 0.7 | 0.5 | 0.1 | 1.8 | 2.2 | 1.9 | 2.1 | 2.5 | 2.4 | 59 | 60 | 60 | 60 | 60 | 59 | 90 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.4 | 2.0 | 2.3 | 1.4 | 1.5 | 0.9 | 0.7 | 0.5 | 0.1 | 1.5 | 1.9 | 1.8 | 2.0 | 2.5 | 2.5 | 59 | 60 | 60 | 60 | 60 | 59 | 90 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.4 | 2.0 | 2.3 | 1.3 | 1.5 | 0.8 | 0.6 | 0.5 | 0.1 | 1.5 | 1.9 | 1.8 | 2.0 | 2.4 | 2.4 | 59 | 60 | 60 | 60 | 60 | 59 | 90 |
| 248 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.7 | 1.8 | 1.5 | 1.3 | 1.0 | 0.2 | 1.8 | 2.0 | 1.9 | 1.8 | 1.8 | 1.1 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 249 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 1.5 | 1.6 | 1.3 | 1.1 | 0.9 | 0.2 | 1.6 | 1.8 | 1.7 | 1.7 | 1.7 | 1.1 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 250 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 0.7 | 0.8 | 1.0 | 1.0 | 0.8 | 0.7 | 0.6 | 0.1 | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.0 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 251 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.7 | 1.0 | 1.1 | 0.9 | 0.8 | 0.6 | 0.2 | 1.1 | 1.3 | 1.3 | 1.3 | 1.3 | 0.9 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0.2 | 0.5 | 1.0 | 1.6 | 2.4 | 2.8 | 1.4 | 1.5 | 0.8 | 0.6 | 0.5 | 0.1 | 1.6 | 2.0 | 1.9 | 2.2 | 2.8 | 2.9 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 1.0 | 1.5 | 2.2 | 2.7 | 1.6 | 1.7 | 0.9 | 0.7 | 0.5 | 0.1 | 1.7 | 2.2 | 1.9 | 2.2 | 2.7 | 2.8 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.2 | 0.4 | 0.9 | 1.3 | 2.0 | 2.4 | 2.2 | 2.4 | 1.3 | 0.9 | 0.6 | 0.2 | 2.3 | 2.8 | 2.1 | 2.2 | 2.6 | 2.5 | 60 | 61 | 60 | 60 | 60 | 60 | 90 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.1 | 0.4 | 0.8 | 1.3 | 2.0 | 2.4 | 2.7 | 3.0 | 1.5 | 1.0 | 0.7 | 0.2 | 2.8 | 3.3 | 2.3 | 2.3 | 2.7 | 2.5 | 60 | 61 | 60 | 60 | 60 | 60 | 90 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464) | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.7 | 1.7 | 1.9 | 2.0 | 1.7 | 0.5 | 1.8 | 1.9 | 2.1 | 2.3 | 2.1 | 0.9 | 60 | 61 | 61 | 61 | 59 | 58 | 90 |
| 264 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 1.0 | 0.6 | 1.1 | 2.0 | 1.5 | 0.5 | 1.0 | 0.7 | 1.2 | 2.1 | 1.7 | 0.8 | 64 | 72 | 71 | 70 | 61 | 58 | 90 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 58 | 58 | 58 | 58 | 57 | 57 | 90 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 2.2 | 1.2 | 1.7 | 2.3 | 2.8 | 1.0 | 2.2 | 1.3 | 1.9 | 2.6 | 3.1 | 1.4 | 61 | 62 | 62 | 67 | 63 | 58 | 90 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 1.8 | 1.0 | 1.4 | 2.0 | 2.3 | 0.8 | 1.8 | 1.0 | 1.6 | 2.2 | 2.6 | 1.2 | 60 | 61 | 61 | 66 | 62 | 58 | 90 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 2.5 | 1.6 | 2.1 | 2.6 | 3.2 | 1.1 | 2.6 | 1.7 | 2.3 | 2.9 | 3.7 | 1.6 | 61 | 61 | 61 | 64 | 62 | 59 | 90 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 2.5 | 1.7 | 2.1 | 2.6 | 3.2 | 1.1 | 2.6 | 1.8 | 2.3 | 2.9 | 3.6 | 1.6 | 61 | 61 | 61 | 64 | 62 | 59 | 90 |
| 321 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 2.1 | 1.5 | 1.7 | 2.0 | 2.4 | 0.8 | 2.1 | 1.6 | 2.0 | 2.4 | 2.9 | 1.4 | 60 | 60 | 60 | 62 | 61 | 58 | 90 |
| 322 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.9 | 1.4 | 1.6 | 1.9 | 2.1 | 0.7 | 1.9 | 1.5 | 1.8 | 2.2 | 2.7 | 1.3 | 60 | 60 | 60 | 61 | 60 | 58 | 90 |
| 324 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 2.0 | 1.4 | 1.6 | 1.9 | 2.2 | 0.7 | 2.0 | 1.5 | 1.9 | 2.3 | 2.8 | 1.3 | 60 | 60 | 60 | 62 | 61 | 58 | 90 |
| 326 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.4 | 1.5 | 1.5 | 1.2 | 1.3 | 1.4 | 1.5 | 0.5 | 1.6 | 1.4 | 1.7 | 2.1 | 2.9 | 2.0 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 327 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.8 | 1.5 | 1.6 | 1.5 | 1.2 | 1.3 | 1.4 | 1.5 | 0.5 | 1.6 | 1.4 | 1.7 | 2.2 | 3.0 | 2.1 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 328 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.4 | 1.5 | 1.7 | 1.3 | 1.4 | 1.6 | 1.7 | 0.5 | 1.7 | 1.5 | 1.8 | 2.2 | 3.1 | 2.0 | 59 | 59 | 60 | 60 | 61 | 59 | 90 |
| 330 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 1.1 | 1.2 | 1.5 | 1.2 | 1.3 | 1.4 | 1.6 | 0.5 | 1.6 | 1.3 | 1.7 | 2.0 | 2.7 | 1.7 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 331 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.4 | 0.6 | 1.2 | 1.3 | 1.7 | 1.3 | 1.4 | 1.5 | 1.7 | 0.5 | 1.7 | 1.4 | 1.8 | 2.1 | 2.9 | 1.8 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 332 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.6 | 1.2 | 1.3 | 1.5 | 1.6 | 0.5 | 1.6 | 1.3 | 1.6 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 333 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.5 | 1.2 | 1.3 | 1.4 | 1.6 | 0.5 | 1.6 | 1.3 | 1.6 | 1.9 | 2.5 | 1.5 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 334 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.5 | 1.1 | 1.2 | 1.4 | 1.6 | 0.5 | 1.5 | 1.3 | 1.6 | 1.9 | 2.4 | 1.4 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 335 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 0.9 | 1.5 | 1.2 | 1.3 | 1.4 | 1.6 | 0.5 | 1.6 | 1.3 | 1.6 | 1.9 | 2.5 | 1.4 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 336 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 1.0 | 1.1 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.5 | 1.7 | 1.4 | 1.7 | 2.0 | 2.7 | 1.6 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 337 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.6 | 1.2 | 1.4 | 1.5 | 1.7 | 0.5 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 338 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.1 | 2.7 | 1.6 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 339 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.4 | 1.1 | 1.2 | 1.4 | 1.6 | 0.5 | 1.5 | 1.2 | 1.5 | 1.8 | 2.2 | 1.2 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 340 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.5 | 1.1 | 1.2 | 1.4 | 1.6 | 0.5 | 1.5 | 1.2 | 1.5 | 1.8 | 2.2 | 1.2 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 341 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.5 | 1.1 | 1.2 | 1.4 | 1.6 | 0.5 | 1.5 | 1.2 | 1.5 | 1.8 | 2.3 | 1.2 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 342 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.5 | 1.1 | 1.3 | 1.4 | 1.6 | 0.5 | 1.6 | 1.3 | 1.5 | 1.9 | 2.3 | 1.3 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 343 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.5 | 1.1 | 1.3 | 1.5 | 1.6 | 0.5 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.3 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 344 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.5 | 1.6 | 1.3 | 1.6 | 1.9 | 2.4 | 1.3 | 59 | 59 | 59 | 60 | 60 | 58 | 90 |
| 345 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.5 | 1.6 | 1.3 | 1.6 | 1.9 | 2.4 | 1.3 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 346 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.8 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.5 | 1.6 | 1.3 | 1.6 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 347 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 348 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.2 | 1.4 | 1.6 | 1.7 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 349 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.6 | 1.2 | 1.4 | 1.5 | 1.7 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 350 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.6 | 1.2 | 1.4 | 1.6 | 1.7 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 351 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 352 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 353 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.7 | 1.6 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 355 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.7 | 1.6 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 356 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 357 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.4 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 358 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 359 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 360 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.8 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 361 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.5 | 1.8 | 2.1 | 2.7 | 1.6 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 362 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 0.9 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.5 | 1.8 | 2.2 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 363 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.8 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 366 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 367 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |

**Modelled annual average TSP concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 369 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 370 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 371 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 372 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.6 | 1.7 | 1.3 | 1.6 | 1.9 | 2.4 | 1.3 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 373 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 374 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 375 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 376 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.8 | 2.1 | 2.6 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 377 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.8 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 380 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.7 | 1.3 | 1.4 | 1.6 | 1.9 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 381 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.7 | 1.3 | 1.4 | 1.6 | 1.9 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 382 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 383 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.3 | 1.4 | 1.6 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 384 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 385 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 386 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.3 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 1.9 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 389 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.4 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 390 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 391 | Private - Commercial | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.8 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 392 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.8 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 393 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.8 | 2.0 | 0.6 | 1.9 | 1.5 | 1.8 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 394 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.9 | 1.4 | 1.8 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 395 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.8 | 1.4 | 1.5 | 1.8 | 2.0 | 0.6 | 1.9 | 1.5 | 1.8 | 2.2 | 2.7 | 1.4 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 396 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 1.7 | 1.2 | 1.4 | 1.6 | 1.9 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 397 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 398 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.7 | 1.2 | 1.4 | 1.6 | 1.9 | 0.6 | 1.7 | 1.4 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 399 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 400 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 401 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 402 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 403 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 404 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 405 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 406 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 407 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 408 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 409 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 410 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 1.9 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 411 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 412 | Community Infrastructure | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 413 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.3 | 1.6 | 1.8 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 414 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.3 | 1.6 | 1.8 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 415 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.6 | 1.2 | 1.3 | 1.6 | 1.8 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 417 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 418 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.4 | 1.2 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 419 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 1.5 | 1.1 | 1.3 | 1.5 | 1.7 | 0.5 | 1.6 | 1.2 | 1.5 | 1.8 | 2.2 | 1.1 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 420 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.4 | 0.6 | 0.6 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 421 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.9 | 1.5 | 1.8 | 2.1 | 2.7 | 1.4 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 422 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.8 | 1.3 | 1.5 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.4 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 423 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 425 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.2 | 0.9 | 1.0 | 1.2 | 1.4 | 0.5 | 1.2 | 1.0 | 1.2 | 1.5 | 1.8 | 0.9 | 59 | 59 | 59 | 60 | 59 | 58 | 90 |
| 426 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.4 | 0.4 | 1.3 | 0.9 | 1.1 | 1.3 | 1.5 | 0.5 | 1.3 | 1.0 | 1.3 | 1.6 | 1.8 | 0.9 | 59 | 59 | 59 | 60 | 59 | 58 | 90 |
| 427 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.5 | 1.1 | 1.3 | 1.5 | 1.7 | 0.6 | 1.5 | 1.2 | 1.5 | 1.8 | 2.2 | 1.0 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 428 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.5 | 1.1 | 1.3 | 1.6 | 1.8 | 0.6 | 1.6 | 1.2 | 1.5 | 1.8 | 2.2 | 1.0 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 429 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 1.8 | 1.3 | 1.5 | 1.8 | 2.1 | 0.7 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.2 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 430 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.6 | 1.3 | 1.6 | 1.9 | 2.3 | 1.1 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 431 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 1.9 | 1.3 | 1.6 | 1.9 | 2.2 | 0.7 | 1.9 | 1.4 | 1.8 | 2.2 | 2.7 | 1.2 | 60 | 60 | 60 | 61 | 60 | 58 | 90 |
| 432 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 1.5 | 1.0 | 1.3 | 1.6 | 1.9 | 0.6 | 1.6 | 1.1 | 1.5 | 1.9 | 2.2 | 1.0 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 1.4 | 0.9 | 1.2 | 1.5 | 1.8 | 0.6 | 1.5 | 1.0 | 1.4 | 1.8 | 2.1 | 0.9 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 434 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 2.5 | 1.7 | 2.0 | 2.5 | 3.0 | 1.0 | 2.5 | 1.8 | 2.3 | 2.9 | 3.6 | 1.6 | 60 | 61 | 61 | 63 | 62 | 59 | 90 |
| 436 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 2.3 | 1.5 | 1.9 | 2.3 | 2.8 | 0.9 | 2.3 | 1.6 | 2.1 | 2.7 | 3.3 | 1.4 | 60 | 61 | 61 | 63 | 62 | 58 | 90 |
| 437 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.8 | 1.6 | 1.6 | 1.4 | 1.1 | 1.2 | 1.3 | 1.4 | 0.5 | 1.5 | 1.3 | 1.7 | 2.1 | 3.0 | 2.1 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 438 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.8 | 1.4 | 1.4 | 1.2 | 1.0 | 1.0 | 1.1 | 1.2 | 0.4 | 1.3 | 1.2 | 1.5 | 1.9 | 2.6 | 1.8 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 440 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 2.1 | 1.4 | 1.8 | 2.2 | 2.6 | 0.9 | 2.1 | 1.5 | 2.0 | 2.5 | 3.1 | 1.3 | 60 | 60 | 61 | 63 | 61 | 58 | 90 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.6 | 0.4 | 0.6 | 0.8 | 0.8 | 0.3 | 0.7 | 0.5 | 0.7 | 1.0 | 1.0 | 0.5 | 59 | 60 | 60 | 61 | 59 | 57 | 90 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.7 | 0.5 | 0.7 | 0.9 | 0.9 | 0.3 | 0.8 | 0.5 | 0.8 | 1.1 | 1.1 | 0.5 | 59 | 60 | 60 | 61 | 59 | 58 | 90 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.4 | 0.5 | 0.7 | 0.7 | 0.2 | 0.6 | 0.4 | 0.6 | 0.8 | 0.8 | 0.4 | 59 | 60 | 60 | 61 | 59 | 57 | 90 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.3 | 0.5 | 0.6 | 0.6 | 0.2 | 0.5 | 0.4 | 0.6 | 0.7 | 0.7 | 0.4 | 60 | 60 | 60 | 61 | 59 | 57 | 90 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.4 | 0.5 | 0.5 | 0.2 | 0.4 | 0.3 | 0.5 | 0.6 | 0.6 | 0.3 | 60 | 60 | 60 | 60 | 59 | 57 | 90 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.3 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.3 | 60 | 59 | 59 | 60 | 58 | 57 | 90 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 60 | 59 | 59 | 60 | 58 | 57 | 90 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 0.3 | 0.4 | 0.5 | 0.4 | 0.2 | 0.4 | 0.3 | 0.4 | 0.6 | 0.6 | 0.3 | 59 | 59 | 59 | 60 | 58 | 57 | 90 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.6 | 0.4 | 0.5 | 0.7 | 0.7 | 0.2 | 0.6 | 0.4 | 0.6 | 0.8 | 0.8 | 0.4 | 59 | 59 | 59 | 60 | 59 | 57 | 90 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.4 | 0.5 | 0.6 | 0.6 | 0.2 | 0.5 | 0.4 | 0.6 | 0.8 | 0.8 | 0.4 | 59 | 59 | 59 | 60 | 59 | 57 | 90 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.4 | 0.6 | 0.5 | 0.2 | 0.5 | 0.3 | 0.5 | 0.7 | 0.7 | 0.3 | 59 | 59 | 59 | 60 | 58 | 57 | 90 |
| 463 | Glencore Owned - Occupied | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 2.3 | 1.3 | 1.9 | 2.5 | 3.0 | 1.0 | 2.4 | 1.4 | 2.0 | 2.7 | 3.3 | 1.4 | 61 | 61 | 62 | 66 | 63 | 58 | 90 |
| 464 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 1.0 | 0.7 | 0.9 | 1.1 | 1.2 | 0.4 | 1.0 | 0.8 | 1.0 | 1.3 | 1.5 | 0.7 | 59 | 59 | 59 | 60 | 59 | 58 | 90 |
| 466 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 1.1 | 0.9 | 1.0 | 1.1 | 1.2 | 0.4 | 1.2 | 1.0 | 1.2 | 1.4 | 1.7 | 0.9 | 59 | 59 | 59 | 60 | 59 | 58 | 90 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 0.7 | 1.5 | 2.8 | 3.4 | 2.9 | 3.0 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 1.1 | 1.9 | 3.1 | 3.7 | 3.1 | 3.1 | 62 | 63 | 64 | 65 | 64 | 60 | 90 |
| 472 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 58 | 58 | 58 | 58 | 58 | 57 | 90 |
| 473 | Private - Commercial | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 59 | 58 | 58 | 58 | 58 | 57 | 90 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.6 | 0.4 | 0.6 | 0.7 | 0.7 | 0.3 | 0.6 | 0.4 | 0.7 | 0.9 | 0.9 | 0.4 | 59 | 59 | 59 | 60 | 59 | 57 | 90 |
| 481 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 1.5 | 1.1 | 1.3 | 1.5 | 1.8 | 0.6 | 1.5 | 1.2 | 1.5 | 1.8 | 2.2 | 1.0 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 482 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.7 | 1.5 | 59 | 59 | 60 | 61 | 60 | 59 | 90 |
| 483 | Community Infrastructure | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.9 | 1.6 | 1.2 | 1.3 | 1.5 | 1.7 | 0.5 | 1.7 | 1.3 | 1.6 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 484 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.9 | 1.0 | 1.6 | 1.2 | 1.4 | 1.5 | 1.7 | 0.5 | 1.7 | 1.4 | 1.7 | 2.0 | 2.6 | 1.5 | 59 | 59 | 60 | 60 | 60 | 59 | 90 |
| 487 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.8 | 1.6 | 1.6 | 1.3 | 1.0 | 1.1 | 1.2 | 1.3 | 0.4 | 1.4 | 1.2 | 1.6 | 2.0 | 2.9 | 2.0 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 488 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.3 | 1.3 | 1.1 | 0.9 | 0.9 | 1.0 | 1.1 | 0.3 | 1.2 | 1.1 | 1.4 | 1.7 | 2.4 | 1.6 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 489 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.7 | 1.3 | 1.3 | 1.1 | 0.9 | 1.0 | 1.0 | 1.1 | 0.3 | 1.2 | 1.1 | 1.4 | 1.7 | 2.4 | 1.6 | 59 | 59 | 59 | 60 | 60 | 59 | 90 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0.2 | 0.5 | 1.1 | 1.6 | 2.4 | 2.9 | 1.2 | 1.4 | 0.8 | 0.6 | 0.4 | 0.1 | 1.4 | 1.8 | 1.8 | 2.2 | 2.8 | 3.0 | 59 | 60 | 60 | 60 | 60 | 60 | 90 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0.2 | 0.4 | 0.9 | 1.4 | 2.0 | 2.3 | 1.5 | 1.6 | 0.9 | 0.7 | 0.5 | 0.1 | 1.7 | 2.1 | 1.8 | 2.1 | 2.5 | 2.4 | 59 | 60 | 60 | 60 | 60 | 59 | 90 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 0.7 | 1.4 | 2.6 | 3.0 | 2.3 | 2.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 1.0 | 1.7 | 2.9 | 3.2 | 2.5 | 2.4 | 62 | 63 | 64 | 65 | 64 | 59 | 90 |
| 507 | Community Infrastructure | - | - | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 60 | 69 | 69 | 70 | 60 | 59 | 90 |
| 511 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 60 | 63 | 63 | 65 | 59 | 59 | 90 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 60 | 65 | 65 | 66 | 60 | 59 | 90 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0.4 | 0.8 | 1.1 | 1.0 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.5 | 0.9 | 1.2 | 1.1 | 0.6 | 0.5 | 63 | 79 | 80 | 79 | 60 | 58 | 90 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 60 | 64 | 64 | 66 | 60 | 59 | 90 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 61 | 64 | 64 | 66 | 60 | 60 | 90 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 61 | 64 | 64 | 66 | 60 | 60 | 90 |
| 614 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 61 | 64 | 64 | 66 | 60 | 60 | 90 |

**Modelled annual average TSP concentrations (ug/m3)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.7 | 1.3 | 1.9 | 1.7 | 0.9 | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.8 | 1.4 | 2.0 | 1.8 | 1.0 | 0.8 | 64 | 67 | 67 | 67 | 62 | 58 | 90 |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 0.7 | 1.4 | 2.2 | 2.2 | 1.4 | 1.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.9 | 1.5 | 2.3 | 2.3 | 1.5 | 1.3 | 64 | 66 | 67 | 67 | 64 | 58 | 90 |
| 623 | Community Infrastructure | - | - | 0.9 | 1.7 | 2.5 | 2.3 | 1.2 | 1.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 1.1 | 1.8 | 2.7 | 2.4 | 1.3 | 1.1 | 64 | 66 | 67 | 67 | 63 | 58 | 90 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0.9 | 1.6 | 2.4 | 2.2 | 1.1 | 1.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 1.0 | 1.7 | 2.6 | 2.3 | 1.2 | 1.0 | 64 | 67 | 67 | 67 | 63 | 58 | 90 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 0.8 | 1.5 | 2.3 | 2.0 | 1.1 | 0.9 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 1.0 | 1.7 | 2.4 | 2.2 | 1.2 | 0.9 | 65 | 67 | 68 | 67 | 63 | 58 | 90 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.8 | 1.4 | 2.2 | 1.9 | 1.0 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.6 | 2.3 | 2.0 | 1.1 | 0.8 | 65 | 67 | 67 | 67 | 63 | 58 | 90 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.8 | 1.4 | 2.1 | 1.8 | 0.9 | 0.8 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.5 | 2.2 | 1.9 | 1.0 | 0.8 | 65 | 67 | 67 | 67 | 63 | 58 | 90 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 0.8 | 1.3 | 2.0 | 1.7 | 0.9 | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.5 | 2.1 | 1.8 | 0.9 | 0.7 | 65 | 67 | 67 | 66 | 62 | 58 | 90 |
| 735 | Private - Commercial | - | - | 0.7 | 1.1 | 1.3 | 1.0 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.8 | 1.2 | 1.4 | 1.1 | 0.6 | 0.5 | 70 | 80 | 80 | 67 | 63 | 58 | 90 |
| 797 | Community Infrastructure | - | - | 0.8 | 1.3 | 1.6 | 1.2 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.4 | 1.7 | 1.3 | 0.7 | 0.6 | 71 | 78 | 78 | 67 | 64 | 58 | 90 |
| 799 | Community Infrastructure | - | - | 0.8 | 1.3 | 1.6 | 1.2 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.4 | 1.7 | 1.3 | 0.7 | 0.6 | 71 | 78 | 78 | 67 | 64 | 58 | 90 |
| 800 | Private - Commercial | - | - | 0.8 | 1.3 | 1.6 | 1.2 | 0.6 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.9 | 1.4 | 1.7 | 1.3 | 0.7 | 0.6 | 71 | 78 | 78 | 67 | 64 | 58 | 90 |
| 829 | Private - Commercial | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 2.0 | 2.0 | 2.3 | 2.5 | 2.0 | 0.6 | 2.0 | 2.1 | 2.5 | 2.8 | 2.4 | 1.0 | 61 | 62 | 62 | 63 | 60 | 58 | 90 |
| 830 | Private - Commercial | - | - | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 1.6 | 1.5 | 1.9 | 2.3 | 1.8 | 0.6 | 1.7 | 1.5 | 2.1 | 2.5 | 2.1 | 1.0 | 62 | 64 | 65 | 65 | 60 | 58 | 90 |
| 833 | Private - Commercial | - | - | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.6 | 7.2 | 4.9 | 11.4 | 12.5 | 11.7 | 3.9 | 7.3 | 5.0 | 11.6 | 12.8 | 12.3 | 4.5 | 66 | 67 | 73 | 74 | 70 | 61 | 90 |
| 834 | Private - Commercial | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.8 | 1.3 | 1.5 | 1.7 | 2.0 | 0.6 | 1.9 | 1.5 | 1.8 | 2.1 | 2.6 | 1.4 | 59 | 60 | 60 | 61 | 60 | 58 | 90 |
| 835 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.5 | 0.8 | 0.9 | 1.7 | 1.3 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.1 | 2.6 | 1.5 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 836 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.7 | 0.8 | 1.6 | 1.2 | 1.4 | 1.6 | 1.7 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 837 | Private - Dwelling | - | - | 0.1 | 0.1 | 0.3 | 0.4 | 0.8 | 0.8 | 1.6 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.4 | 59 | 59 | 60 | 60 | 60 | 58 | 90 |
| 838 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.7 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.8 | 1.4 | 1.7 | 2.1 | 2.6 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 839 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.7 | 1.2 | 1.4 | 1.6 | 1.8 | 0.6 | 1.7 | 1.3 | 1.6 | 2.0 | 2.4 | 1.2 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 840 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.7 | 1.7 | 1.3 | 1.4 | 1.7 | 1.9 | 0.6 | 1.7 | 1.4 | 1.7 | 2.0 | 2.5 | 1.3 | 59 | 59 | 60 | 61 | 60 | 58 | 90 |
| 843 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.5 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 0.8 | 0.7 | 0.6 | 0.1 | 1.1 | 1.3 | 1.3 | 1.4 | 1.4 | 1.1 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 846 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.9 | 1.0 | 1.1 | 0.8 | 0.9 | 0.6 | 0.5 | 0.4 | 0.1 | 1.0 | 1.2 | 1.3 | 1.4 | 1.5 | 1.2 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 847 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.8 | 1.0 | 1.2 | 0.9 | 0.9 | 0.7 | 0.6 | 0.5 | 0.1 | 1.0 | 1.2 | 1.3 | 1.4 | 1.5 | 1.3 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 852 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.9 | 1.1 | 1.2 | 1.0 | 1.1 | 0.8 | 0.7 | 0.5 | 0.1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.6 | 1.4 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 855 | Private - Dwelling | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.8 | 1.8 | 2.0 | 1.6 | 1.4 | 1.1 | 0.3 | 1.9 | 2.1 | 2.0 | 2.0 | 1.9 | 1.1 | 59 | 60 | 60 | 60 | 59 | 58 | 90 |
| 856 | Private - Dwelling | - | - | 0.1 | 0.3 | 0.6 | 0.7 | 1.0 | 1.1 | 1.1 | 1.1 | 0.9 | 0.7 | 0.6 | 0.1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 | 1.2 | 59 | 59 | 59 | 59 | 59 | 58 | 90 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.7 | 1.3 | 1.9 | 1.8 | 1.0 | 0.9 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.8 | 1.4 | 2.1 | 1.9 | 1.1 | 0.9 | 64 | 69 | 69 | 69 | 63 | 58 | 90 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.6 | 1.0 | 1.4 | 1.2 | 0.7 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.7 | 1.1 | 1.5 | 1.3 | 0.7 | 0.6 | 65 | 70 | 70 | 69 | 61 | 58 | 90 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.7 | 1.2 | 1.7 | 1.5 | 0.7 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.8 | 1.3 | 1.8 | 1.6 | 0.8 | 0.6 | 67 | 68 | 69 | 67 | 62 | 58 | 90 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.6 | 1.1 | 1.6 | 1.3 | 0.7 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.7 | 1.2 | 1.7 | 1.4 | 0.8 | 0.6 | 67 | 69 | 69 | 68 | 62 | 58 | 90 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.4 | 1.0 | 1.9 | 2.6 | 2.7 | 3.2 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.9 | 1.4 | 2.3 | 2.9 | 3.0 | 3.2 | 60 | 61 | 62 | 62 | 62 | 60 | 90 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.4 | 1.0 | 1.9 | 2.5 | 2.7 | 3.0 | 0.5 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 | 0.9 | 1.4 | 2.3 | 2.8 | 2.9 | 3.1 | 60 | 61 | 62 | 62 | 62 | 60 | 90 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0.2 | 0.5 | 1.1 | 1.7 | 2.5 | 3.0 | 1.0 | 1.1 | 0.7 | 0.5 | 0.4 | 0.1 | 1.2 | 1.6 | 1.8 | 2.3 | 2.9 | 3.1 | 59 | 59 | 60 | 60 | 60 | 60 | 90 |
| 949 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.7 | 2.5 | 3.0 | 1.0 | 1.1 | 0.7 | 0.5 | 0.4 | 0.1 | 1.2 | 1.6 | 1.8 | 2.3 | 2.9 | 3.1 | 59 | 59 | 60 | 60 | 60 | 60 | 90 |
| 950 | Private - Dwelling | - | - | 0.2 | 0.5 | 1.1 | 1.7 | 2.5 | 3.0 | 1.0 | 1.1 | 0.7 | 0.5 | 0.4 | 0.1 | 1.2 | 1.6 | 1.8 | 2.3 | 2.9 | 3.1 | 59 | 59 | 60 | 60 | 60 | 60 | 90 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

**Modelled annual average deposited dust (g/m2/month)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| D119 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| DL14 | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 3.0 | 4.7 | 4.3 | 4.1 | 3.1 | 2.6 | 4 |
| D118 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.5 | 3.1 | 2.6 | 4 |
| Knodlers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 3.0 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| DL22 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.7 | 0.8 | 0.7 | 0.6 | 0.4 | 0.1 | 0.7 | 0.9 | 0.7 | 0.6 | 0.5 | 0.2 | 3.3 | 3.5 | 3.4 | 3.3 | 3.0 | 2.7 | 4 |
| DL21 | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.5 | 0.6 | 0.4 | 0.3 | 0.4 | 0.3 | 3.1 | 3.2 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| D122 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| DL30 | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.8 | 0.8 | 1.2 | 1.3 | 1.1 | 0.3 | 0.8 | 0.8 | 1.2 | 1.4 | 1.2 | 0.4 | 3.5 | 3.7 | 4.1 | 4.2 | 3.7 | 2.9 | 4 |
| DL2 | Monitor | - | - | 0.0 | 0.1 | 0.3 | 0.4 | 0.7 | 0.9 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 2.8 | 2.9 | 3.0 | 3.1 | 3.3 | 3.4 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 3.0 | 4.7 | 4.3 | 4.1 | 3.1 | 2.6 | 4 |
| Cheshunt East | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.7 | 0.9 | 2.9 | 3.0 | 3.2 | 3.3 | 3.4 | 3.4 | 4 |
| Long Point | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.5 | 3.1 | 2.6 | 4 |
| Wandewoi | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.7 | 0.4 | 0.5 | 0.6 | 0.8 | 0.3 | 0.7 | 0.5 | 0.6 | 0.7 | 0.9 | 0.4 | 3.3 | 3.1 | 3.2 | 3.4 | 3.5 | 2.9 | 4 |
| Howick | Monitor | - | - | 0.4 | 0.6 | 0.7 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 0.7 | 0.3 | 0.1 | 0.1 | 3.8 | 4.1 | 4.2 | 3.8 | 3.6 | 2.6 | 4 |
| Golden Highway | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 4.2 | 5.2 | 5.2 | 5.2 | 2.8 | 2.6 | 4 |
| HC1 Conveyor | Monitor | - | - | 1.5 | 8.9 | 9.0 | 14.7 | 1.1 | 1.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 1.6 | 9.0 | 9.1 | 14.8 | 1.1 | 1.2 | 4.5 | 18.3 | 18.4 | 24.1 | 10.4 | 3.8 | 4 |
| Maison Dieu | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| Warkworth | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 3.1 | 4.0 | 3.8 | 3.8 | 2.9 | 2.6 | 4 |
| Knodlers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.8 | 0.9 | 0.6 | 0.5 | 0.3 | 0.1 | 0.8 | 0.9 | 0.7 | 0.5 | 0.5 | 0.2 | 3.4 | 3.5 | 3.3 | 3.2 | 3.0 | 2.7 | 4 |
| Jerrys Plains | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 4 |
| Cheshunt East | Monitor | - | - | 0.1 | 0.2 | 0.4 | 0.5 | 0.7 | 0.9 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.7 | 0.9 | 2.9 | 3.0 | 3.2 | 3.3 | 3.4 | 3.4 | 4 |
| HVGC | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.9 | 0.6 | 1.3 | 1.4 | 1.4 | 0.4 | 0.9 | 0.6 | 1.3 | 1.4 | 1.4 | 0.5 | 3.6 | 3.5 | 4.2 | 4.3 | 4.0 | 3.0 | 4 |
| Long Point | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.5 | 3.1 | 2.6 | 4 |
| Kilburnie South | Monitor | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.5 | 3.1 | 2.6 | 4 |
| Maison Dieu | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| Maison Dieu | Monitor | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| Knodlers Lane | Monitor | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 3.0 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 17 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 4 |
| 19 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 4 |
| 37 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 4 |
| 102 | Private - Subject to Acquisition Rights | Warkworth (Noise & AQ) [SSD6464] | Warkworth (Noise & AQ) [SSD6464] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 3.1 | 4.1 | 3.9 | 3.8 | 2.9 | 2.6 | 4 |
| 120 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.3 | 0.2 | 0.1 | 0.0 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 3.0 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 121 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.6 | 0.6 | 0.4 | 0.3 | 0.2 | 0.0 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 | 0.2 | 3.1 | 3.2 | 3.0 | 3.0 | 2.9 | 2.7 | 4 |
| 122 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.2 | 0.1 | 0.0 | 0.4 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 123 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.3 | 0.2 | 0.2 | 0.0 | 0.5 | 0.6 | 0.4 | 0.3 | 0.3 | 0.2 | 3.1 | 3.1 | 3.0 | 2.9 | 2.9 | 2.8 | 4 |
| 124 | Private - Dwelling | HVOS (Noise & AQ) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.2 | 0.1 | 0.0 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 126 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 2.8 | 2.9 | 2.9 | 3.0 | 2.8 | 2.6 | 4 |
| 127 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 2.9 | 3.0 | 2.9 | 2.9 | 2.8 | 2.7 | 4 |
| 128 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| 130 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| 134 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| 139 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| 141 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 160 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.0 | 0.4 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 | 3.0 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 161 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 162 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 2.9 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 163 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 167 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 169 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.0 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 2.8 | 2.9 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 170 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 173 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.1 | 2.8 | 2.9 | 2.9 | 2.8 | 2.8 | 2.6 | 4 |
| 174 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 175 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 176 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 178 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.8 | 2.8 | 2.8 | 2.7 | 2.6 | 4 |
| 179 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.8 | 2.8 | 2.8 | 2.7 | 2.6 | 4 |
| 244 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.8 | 2.8 | 4 |
| 245 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 246 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 247 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 248 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 249 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.6 | 4 |
| 250 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 4 |
| 251 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 4 |
| 256 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 258 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 260 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 2.9 | 3.0 | 2.8 | 2.9 | 2.9 | 2.8 | 4 |
| 261 | Private - Dwelling | HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.1 | 0.1 | 0.0 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 3.0 | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 4 |
| 262 | Private - Dwelling | Warkworth (Noise) [SSD6464] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 2.8 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 4 |
| 264 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 3.1 | 4.0 | 3.9 | 3.8 | 2.9 | 2.6 | 4 |
| 266 | Private - Dwelling | UWJV (Noise) [SSD7142]; Wambo Coal Mine (Noise) [DA 305-7-2003] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 4 |
| 308 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.9 | 3.0 | 3.1 | 3.5 | 3.2 | 2.7 | 4 |
| 310 | Glencore Owned - Occupied | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | UWJV (Noise) [SSD7142] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.4 | 3.1 | 2.6 | 4 |
| 311 | Private - Dwelling | UWJV (Noise) [SSD7142]; HVOS (Noise) [06_0261] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.5 | 0.2 | 2.9 | 3.0 | 3.0 | 3.3 | 3.1 | 2.7 | 4 |
| 317 | Private - Dwelling | HVOS (Noise) [06_0261]; UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.5 | 0.2 | 2.9 | 3.0 | 3.0 | 3.3 | 3.1 | 2.7 | 4 |
| 321 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.8 | 2.9 | 2.9 | 3.0 | 2.9 | 2.7 | 4 |
| 322 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.9 | 3.0 | 2.9 | 2.7 | 4 |
| 324 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.9 | 3.0 | 2.9 | 2.7 | 4 |
| 326 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 327 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 4 |
| 328 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 330 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 331 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 332 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 333 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 334 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 335 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 336 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 337 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 338 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 339 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 340 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 341 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 342 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.7 | 4 |
| 343 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.7 | 4 |
| 344 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 345 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 346 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 347 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 348 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 349 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 350 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 351 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 352 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 353 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 355 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 356 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 357 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 358 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 359 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 360 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 361 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 362 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 363 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 366 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 367 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |

**Modelled annual average deposited dust (g/m2/month)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 368 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 369 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 370 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 371 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 372 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 373 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 374 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 375 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 376 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 377 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 380 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 381 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 382 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 383 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 384 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 385 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 386 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 389 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 390 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 391 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 392 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 393 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 3.0 | 2.9 | 2.7 | 4 |
| 394 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 395 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 396 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 397 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 398 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 399 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 400 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 401 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 402 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 403 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 404 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 405 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 406 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 407 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 408 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 409 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 410 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 411 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 412 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 413 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 414 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 415 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 417 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 418 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 419 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 420 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 421 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 422 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 423 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 425 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 426 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 427 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 428 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 429 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.9 | 3.0 | 2.9 | 2.6 | 4 |
| 430 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 431 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.9 | 3.0 | 2.9 | 2.6 | 4 |
| 432 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 3.0 | 2.9 | 2.6 | 4 |
| 433 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.9 | 3.0 | 2.9 | 2.6 | 4 |
| 434 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 2.9 | 2.9 | 3.0 | 3.2 | 3.1 | 2.7 | 4 |
| 436 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.2 | 2.9 | 2.9 | 2.9 | 3.2 | 3.0 | 2.7 | 4 |
| 437 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 4 |
| 438 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.7 | 4 |
| 440 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.4 | 0.2 | 2.9 | 2.9 | 2.9 | 3.2 | 3.0 | 2.7 | 4 |
| 451 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.8 | 2.9 | 2.9 | 3.1 | 2.8 | 2.6 | 4 |
| 452 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 2.8 | 2.9 | 2.9 | 3.0 | 2.8 | 2.6 | 4 |
| 453 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.8 | 2.9 | 2.9 | 3.0 | 2.8 | 2.6 | 4 |
| 454 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 2.9 | 2.9 | 2.9 | 3.1 | 2.8 | 2.5 | 4 |
| 455 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 2.9 | 2.9 | 2.9 | 3.0 | 2.7 | 2.5 | 4 |
| 456 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 2.9 | 2.9 | 2.9 | 3.0 | 2.7 | 2.5 | 4 |
| 457 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 | 2.5 | 4 |
| 458 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.7 | 2.5 | 4 |
| 459 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.8 | 2.8 | 2.8 | 3.0 | 2.7 | 2.6 | 4 |
| 460 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.7 | 2.6 | 4 |
| 462 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.7 | 2.5 | 4 |
| 463 | Glencore Owned - Occupied | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.1 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 2.9 | 3.0 | 3.0 | 3.5 | 3.2 | 2.7 | 4 |
| 464 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.8 | 2.6 | 4 |
| 466 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 471 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (AQ) [06_0261] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rav Ops (AQ) [DA 09_0176] | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 3.1 | 3.3 | 3.4 | 3.5 | 3.4 | 2.9 | 4 |
| 472 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 2.5 | 4 |
| 473 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 477 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 2.8 | 2.8 | 2.8 | 2.6 | 2.5 | 4 |
| 478 | Private - Dwelling | UWJV (Noise) [SSD7142] | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.8 | 2.8 | 2.8 | 3.0 | 2.8 | 2.6 | 4 |
| 481 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 482 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 483 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 484 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 487 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.3 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 488 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 4 |
| 489 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 4 |
| 497 | Private - Subject to Acquisition Rights | HVOS (Noise) [06_0261]; Rav Ops (AQ) [DA 09_0176] | Rav Ops (AQ) [DA 09_0176] | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 2.7 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 4 |
| 498 | Private - Dwelling | HVO South (Noise) | - | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 2.8 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 4 |
| 499 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] (lots 2//1111313 & 3//1111313); Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek South (AQ) [SSD 6300] (lots 2//1111313 & 3//1111313) | 0.1 | 0.2 | 0.3 | 0.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.4 | 0.3 | 0.3 | 3.2 | 3.3 | 3.5 | 3.5 | 3.4 | 2.8 | 4 |
| 507 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 2.9 | 3.6 | 3.6 | 3.7 | 2.8 | 2.7 | 4 |
| 511 | Community Infrastructure | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 3.2 | 3.2 | 3.3 | 2.8 | 2.7 | 4 |
| 592 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise) [PA08_0102]; MOCO (AQ) [SSD-5850] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 2.9 | 3.3 | 3.3 | 3.5 | 2.9 | 2.8 | 4 |
| 596 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Glendell (Noise) [DA 80/952]; IUG (Noise) [PA08_0101] | Rixs Creek North (Noise & AQ) [PA08_0102]; IUG (Noise) [PA08_0101] | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 3.2 | 4.6 | 4.7 | 4.5 | 2.9 | 2.6 | 4 |
| 598 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 3.2 | 3.2 | 3.5 | 2.9 | 2.8 | 4 |
| 599 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850] | MOCO (AQ) [SSD-5850] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 3.2 | 3.5 | 2.9 | 2.8 | 4 |
| 613 | Private - Subject to Acquisition Rights | - | MOCO (AQ) [SSD-5850] vacant lots 31//6842 and 2//1175728 within landholding only | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 3.2 | 3.5 | 2.9 | 2.8 | 4 |
| 614 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 3.2 | 3.5 | 2.9 | 2.8 | 4 |
| 619 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 3.4 | 3.7 | 3.8 | 3.7 | 3.2 | 2.6 | 4 |

**Modelled annual average deposited dust (g/m2/month)**

| | | | | Project (HVO N) | | | | | | Project (HVO S) | | | | | | Project (HVO Complex) | | | | | | Cumulative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Status | Existing mitigation rights | Existing acquisition rights | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | 2014 | 2025 | 2029 | 2033 | 2040 | 2044 | Criteria |
| 621 | Private - Subject to Acquisition Rights | Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102]; Ashton (AQ) [DA309-11-2001-i] | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 3.3 | 3.6 | 3.7 | 3.7 | 3.3 | 2.7 | 4 |
| 623 | Community Infrastructure | - | - | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 3.4 | 3.7 | 3.8 | 3.7 | 3.3 | 2.6 | 4 |
| 624 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to all 9 contigious lots 1//248748, 2/9/758214, 3/9/758214, 4/9/758214, 5/9/758214, 6/9/758214, 7/9/758214, 8/9/758214, 9/9/758214 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.2 | 0.1 | 3.4 | 3.7 | 3.8 | 3.8 | 3.3 | 2.6 | 4 |
| 626 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 1/8/758214 and 2/8/758214 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.1 | 0.1 | 3.5 | 3.7 | 3.8 | 3.8 | 3.3 | 2.6 | 4 |
| 627 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 3.5 | 3.7 | 3.8 | 3.7 | 3.2 | 2.6 | 4 |
| 628 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; MOCO (AQ) [SSD-5850]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300] | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 3.5 | 3.7 | 3.8 | 3.7 | 3.2 | 2.6 | 4 |
| 629 | Private - Subject to Acquisition Rights | MOCO (AQ) [SSD-5850]; Rixs Creek North (AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | MOCO (AQ) [SSD-5850]; Rixs Creek South (AQ) [SSD 6300]. Note - acquisitions apply to both contigious lots 103//852484 and 104//852484 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 3.5 | 3.7 | 3.8 | 3.7 | 3.2 | 2.6 | 4 |
| 735 | Private - Commercial | - | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 3.9 | 4.8 | 4.8 | 3.5 | 3.2 | 2.6 | 4 |
| 797 | Community Infrastructure | - | - | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 4.0 | 4.6 | 4.7 | 3.6 | 3.3 | 2.6 | 4 |
| 799 | Community Infrastructure | - | - | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 4.0 | 4.6 | 4.7 | 3.6 | 3.3 | 2.6 | 4 |
| 800 | Private - Commercial | - | - | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 4.0 | 4.6 | 4.7 | 3.6 | 3.3 | 2.6 | 4 |
| 829 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.1 | 2.9 | 3.0 | 3.0 | 3.1 | 2.8 | 2.6 | 4 |
| 830 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 3.0 | 3.2 | 3.2 | 3.3 | 2.8 | 2.6 | 4 |
| 833 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.9 | 0.5 | 1.3 | 1.4 | 1.4 | 0.5 | 0.9 | 0.5 | 1.3 | 1.4 | 1.4 | 0.5 | 3.6 | 3.5 | 4.3 | 4.4 | 4.0 | 3.0 | 4 |
| 834 | Private - Commercial | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 835 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 836 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 837 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 838 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.7 | 4 |
| 839 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 840 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.1 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.6 | 4 |
| 843 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 4 |
| 846 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 847 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.7 | 4 |
| 852 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 4 |
| 855 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 4 |
| 856 | Private - Dwelling | - | - | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.7 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 4 |
| 860 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise & AQ) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 3.4 | 4.0 | 4.1 | 4.0 | 3.2 | 2.6 | 4 |
| 861 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Glendell [DA80/952]; Rixs Creek North (Noise) [PA08_0102] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 3.5 | 4.0 | 4.0 | 3.9 | 3.0 | 2.6 | 4 |
| 862 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 3.7 | 3.8 | 3.9 | 3.7 | 3.1 | 2.6 | 4 |
| 863 | Private - Subject to Acquisition Rights | Glendell (Noise) [DA 80/952]; Rixs Creek North (Noise) [PA08_0102]; IUG (Noise) [PA08_0101]; Rixs Creek South (AQ) [SSD 6300] | Rixs Creek North (Noise) [PA08_0102] | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 3.7 | 3.9 | 3.9 | 3.7 | 3.1 | 2.6 | 4 |
| 869 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 2.9 | 4 |
| 870 | Private - Subject to Acquisition Rights | Rav Ops (AQ and Noise) [DA 09_0176]; Rixs Creek North (Noise) [PA08_0102]; Rixs Creek South (AQ) [SSD 6300] | Ashton (AQ & Noise) [DA309-11-2001-i]; Rixs Creek North (Noise) [PA08_0102] (acquisition applies to contigious | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 2.9 | 4 |
| 947 | Private - Subject to Acquisition Rights | Rav Ops (AQ) [DA 09_0176]; HVOS (Noise) [06_0261] | Rav Ops (AQ) [DA 09_0176] | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |
| 949 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |
| 950 | Private - Dwelling | - | - | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 2.7 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 4 |

Ashton = Ashton Coal Project, HVOS = Hunter Valley Operations (South), HVON = Hunter Valley Operations (North), MOCO = Mt Owen Continued Operations, IUG = Integra Underground, UWJV = United Wambo JV, Rav Ops = Ravensworth Surface Operations

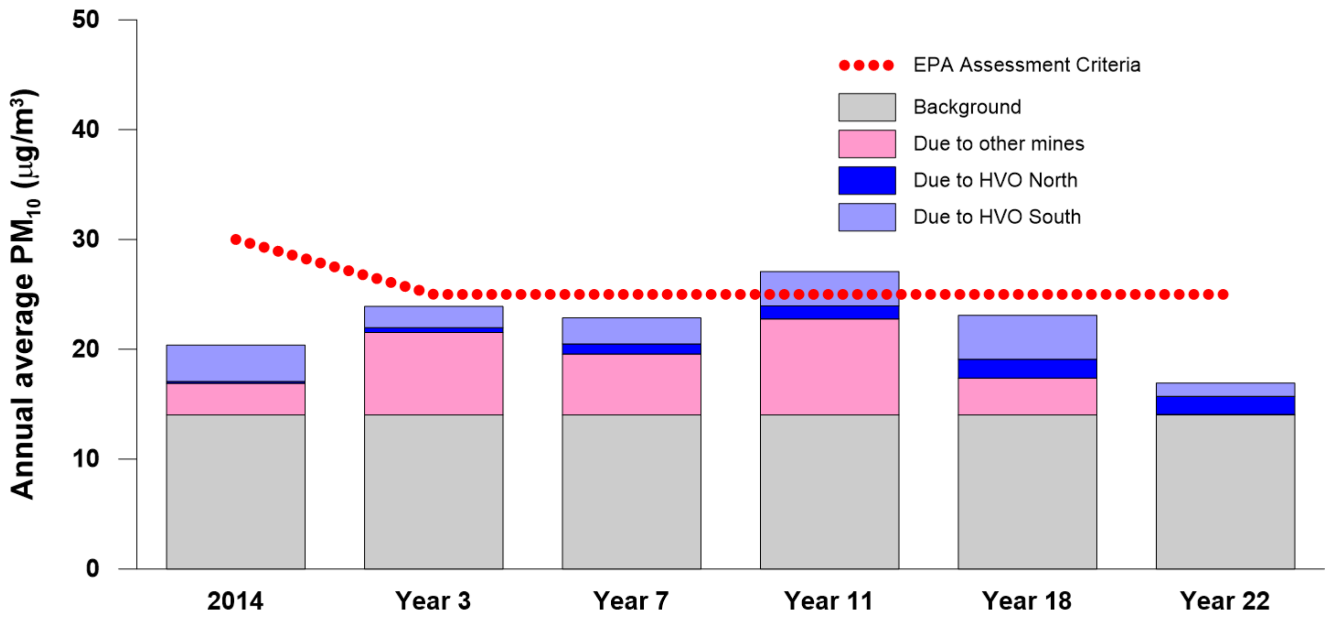


Figure F1 Annual average $PM_{10}$ concentrations at property 308

# Appendix G. Greenhouse gas emissions by activity

**Diesel usage**

| | | | Emission factor (kg CO2-e/kL) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Usage (kL) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 152,223 | 2721.3 | 0 | 138.96 | 414,245 | - | 21,153 | 435,398 |
| 2024 | 20,976,889 | 154,989 | 2721.3 | 0 | 138.96 | 421,771 | - | 21,537 | 443,308 |
| 2025 | 18,177,901 | 170,141 | 2721.3 | 0 | 138.96 | 463,005 | - | 23,643 | 486,648 |
| 2026 | 28,173,230 | 191,719 | 2721.3 | 0 | 138.96 | 521,726 | - | 26,641 | 548,367 |
| 2027 | 30,409,148 | 197,755 | 2721.3 | 0 | 138.96 | 538,152 | - | 27,480 | 565,632 |
| 2028 | 31,213,520 | 188,921 | 2721.3 | 0 | 138.96 | 514,111 | - | 26,252 | 540,364 |
| 2029 | 30,710,095 | 220,002 | 2721.3 | 0 | 138.96 | 598,693 | - | 30,572 | 629,264 |
| 2030 | 31,500,000 | 213,819 | 2721.3 | 0 | 138.96 | 581,866 | - | 29,712 | 611,578 |
| 2031 | 29,370,406 | 222,720 | 2721.3 | 0 | 138.96 | 606,088 | - | 30,949 | 637,037 |
| 2032 | 30,057,815 | 232,237 | 2721.3 | 0 | 138.96 | 631,987 | - | 32,272 | 664,259 |
| 2033 | 30,797,847 | 235,155 | 2721.3 | 0 | 138.96 | 639,926 | - | 32,677 | 672,603 |
| 2034 | 31,500,000 | 228,460 | 2721.3 | 0 | 138.96 | 621,707 | - | 31,747 | 653,454 |
| 2035 | 31,012,508 | 217,713 | 2721.3 | 0 | 138.96 | 592,462 | - | 30,253 | 622,715 |
| 2036 | 31,500,000 | 227,300 | 2721.3 | 0 | 138.96 | 618,553 | - | 31,586 | 650,138 |
| 2037 | 31,433,780 | 227,502 | 2721.3 | 0 | 138.96 | 619,100 | - | 31,614 | 650,714 |
| 2038 | 29,452,270 | 246,653 | 2721.3 | 0 | 138.96 | 671,216 | - | 34,275 | 705,491 |
| 2039 | 34,000,894 | 270,140 | 2721.3 | 0 | 138.96 | 735,131 | - | 37,539 | 772,669 |
| 2040 | 38,263,102 | 271,303 | 2721.3 | 0 | 138.96 | 738,297 | - | 37,700 | 775,997 |
| 2041 | 29,996,243 | 260,402 | 2721.3 | 0 | 138.96 | 708,633 | - | 36,186 | 744,819 |
| 2042 | 29,500,000 | 240,862 | 2721.3 | 0 | 138.96 | 655,457 | - | 33,470 | 688,927 |
| 2043 | 28,830,479 | 209,323 | 2721.3 | 0 | 138.96 | 569,630 | - | 29,087 | 598,718 |
| 2044 | 27,723,390 | 203,260 | 2721.3 | 0 | 138.96 | 553,132 | - | 28,245 | 581,377 |
| 2045 | 24,318,601 | 144,884 | 2721.3 | 0 | 138.96 | 394,272 | - | 20,133 | 414,405 |
| 2046 | 19,310,031 | 146,836 | 2721.3 | 0 | 138.96 | 399,585 | - | 20,404 | 419,990 |
| 2047 | 18,626,435 | 134,543 | 2721.3 | 0 | 138.96 | 366,132 | - | 18,696 | 384,828 |
| 2048 | 16,291,191 | 96,075 | 2721.3 | 0 | 138.96 | 261,450 | - | 13,351 | 274,800 |
| 2049 | 9,742,001 | 56,302 | 2721.3 | 0 | 138.96 | 153,215 | - | 7,824 | 161,039 |
| 2050 | 3,789,709 | 22,030 | 2721.3 | 0 | 138.96 | 59,951 | - | 3,061 | 63,013 |
| | | | | | | | | Average | 549,913 |
| | | | | | | | | Total | 15,397,551 |

**Fugitive emissions**

| | | | Emission factor (t CO2-e/t ROM) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | - | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | - | - | - | - | 182,625 | - | - | 182,625 |
| 2024 | 20,976,889 | - | - | - | - | 249,818 | - | - | 249,818 |
| 2025 | 18,177,901 | - | - | - | - | 235,235 | - | - | 235,235 |
| 2026 | 28,173,230 | - | - | - | - | 450,007 | - | - | 450,007 |
| 2027 | 30,409,148 | - | - | - | - | 413,873 | - | - | 413,873 |
| 2028 | 31,213,520 | - | - | - | - | 527,872 | - | - | 527,872 |
| 2029 | 30,710,095 | - | - | - | - | 365,237 | - | - | 365,237 |
| 2030 | 31,500,000 | - | - | - | - | 590,284 | - | - | 590,284 |
| 2031 | 29,370,406 | - | - | - | - | 422,105 | - | - | 422,105 |
| 2032 | 30,057,815 | - | - | - | - | 451,025 | - | - | 451,025 |
| 2033 | 30,797,847 | - | - | - | - | 534,789 | - | - | 534,789 |
| 2034 | 31,500,000 | - | - | - | - | 538,123 | - | - | 538,123 |
| 2035 | 31,012,508 | - | - | - | - | 408,494 | - | - | 408,494 |
| 2036 | 31,500,000 | - | - | - | - | 604,714 | - | - | 604,714 |
| 2037 | 31,433,780 | - | - | - | - | 452,705 | - | - | 452,705 |
| 2038 | 29,452,270 | - | - | - | - | 469,173 | - | - | 469,173 |
| 2039 | 34,000,894 | - | - | - | - | 667,179 | - | - | 667,179 |
| 2040 | 38,263,102 | - | - | - | - | 1,071,195 | - | - | 1,071,195 |
| 2041 | 29,996,243 | - | - | - | - | 544,341 | - | - | 544,341 |
| 2042 | 29,500,000 | - | - | - | - | 946,518 | - | - | 946,518 |
| 2043 | 28,830,479 | - | - | - | - | 1,207,940 | - | - | 1,207,940 |
| 2044 | 27,723,390 | - | - | - | - | 1,464,963 | - | - | 1,464,963 |
| 2045 | 24,318,601 | - | - | - | - | 1,508,445 | - | - | 1,508,445 |
| 2046 | 19,310,031 | - | - | - | - | 856,297 | - | - | 856,297 |
| 2047 | 18,626,435 | - | - | - | - | 1,010,945 | - | - | 1,010,945 |
| 2048 | 16,291,191 | - | - | - | - | 926,548 | - | - | 926,548 |
| 2049 | 9,742,001 | - | - | - | - | 722,712 | - | - | 722,712 |
| 2050 | 3,789,709 | - | - | - | - | 352,944 | - | - | 352,944 |
| | | | | | | | | Average | 649,147 |
| | | | | | | | | Total | 18,176,106 |

**Blasting emissions**

| | | | Emission factor (t CO2-e/t Explosives) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Explosives (t) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 57,611 | 0.17 | 0 | 0 | 9,794 | - | - | 9,794 |
| 2024 | 20,976,889 | 57,902 | 0.17 | 0 | 0 | 9,843 | - | - | 9,843 |
| 2025 | 18,177,901 | 72,419 | 0.17 | 0 | 0 | 12,311 | - | - | 12,311 |
| 2026 | 28,173,230 | 93,399 | 0.17 | 0 | 0 | 15,878 | - | - | 15,878 |
| 2027 | 30,409,148 | 91,101 | 0.17 | 0 | 0 | 15,487 | - | - | 15,487 |
| 2028 | 31,213,520 | 86,683 | 0.17 | 0 | 0 | 14,736 | - | - | 14,736 |
| 2029 | 30,710,095 | 101,895 | 0.17 | 0 | 0 | 17,322 | - | - | 17,322 |
| 2030 | 31,500,000 | 100,527 | 0.17 | 0 | 0 | 17,090 | - | - | 17,090 |
| 2031 | 29,370,406 | 102,253 | 0.17 | 0 | 0 | 17,383 | - | - | 17,383 |
| 2032 | 30,057,815 | 100,120 | 0.17 | 0 | 0 | 17,020 | - | - | 17,020 |
| 2033 | 30,797,847 | 100,995 | 0.17 | 0 | 0 | 17,169 | - | - | 17,169 |
| 2034 | 31,500,000 | 104,756 | 0.17 | 0 | 0 | 17,809 | - | - | 17,809 |
| 2035 | 31,012,508 | 97,399 | 0.17 | 0 | 0 | 16,558 | - | - | 16,558 |
| 2036 | 31,500,000 | 95,392 | 0.17 | 0 | 0 | 16,217 | - | - | 16,217 |
| 2037 | 31,433,780 | 89,672 | 0.17 | 0 | 0 | 15,244 | - | - | 15,244 |
| 2038 | 29,452,270 | 91,276 | 0.17 | 0 | 0 | 15,517 | - | - | 15,517 |
| 2039 | 34,000,894 | 105,985 | 0.17 | 0 | 0 | 18,017 | - | - | 18,017 |
| 2040 | 38,263,102 | 104,638 | 0.17 | 0 | 0 | 17,789 | - | - | 17,789 |
| 2041 | 29,996,243 | 100,059 | 0.17 | 0 | 0 | 17,010 | - | - | 17,010 |
| 2042 | 29,500,000 | 95,264 | 0.17 | 0 | 0 | 16,195 | - | - | 16,195 |
| 2043 | 28,830,479 | 81,685 | 0.17 | 0 | 0 | 13,886 | - | - | 13,886 |
| 2044 | 27,723,390 | 79,365 | 0.17 | 0 | 0 | 13,492 | - | - | 13,492 |
| 2045 | 24,318,601 | 64,960 | 0.17 | 0 | 0 | 11,043 | - | - | 11,043 |
| 2046 | 19,310,031 | 60,148 | 0.17 | 0 | 0 | 10,225 | - | - | 10,225 |
| 2047 | 18,626,435 | 58,470 | 0.17 | 0 | 0 | 9,940 | - | - | 9,940 |
| 2048 | 16,291,191 | 44,729 | 0.17 | 0 | 0 | 7,604 | - | - | 7,604 |
| 2049 | 9,742,001 | 28,270 | 0.17 | 0 | 0 | 4,806 | - | - | 4,806 |
| 2050 | 3,789,709 | 11,200 | 0.17 | 0 | 0 | 1,904 | - | - | 1,904 |
| | | | | | | | | Average | 13,832 |
| | | | | | | | | Total | 387,289 |

**Construction (diesel usage)**

| | | | Emission factor (kg CO2-e/kL) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Usage (kL) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 7,070 | 2721.3 | 0 | 138.96 | 19,241 | - | 983 | 20,223 |
| 2024 | 20,976,889 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2025 | 18,177,901 | 2,402 | 2721.3 | 0 | 138.96 | 6,537 | - | 334 | 6,870 |
| 2026 | 28,173,230 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2027 | 30,409,148 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2028 | 31,213,520 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2029 | 30,710,095 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2030 | 31,500,000 | 358 | 2721.3 | 0 | 138.96 | 974 | - | 50 | 1,024 |
| 2031 | 29,370,406 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2032 | 30,057,815 | 362 | 2721.3 | 0 | 138.96 | 986 | - | 50 | 1,036 |
| 2033 | 30,797,847 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2034 | 31,500,000 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2035 | 31,012,508 | 1,270 | 2721.3 | 0 | 138.96 | 3,456 | - | 176 | 3,633 |
| 2036 | 31,500,000 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2037 | 31,433,780 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2038 | 29,452,270 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2039 | 34,000,894 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2040 | 38,263,102 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2041 | 29,996,243 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2042 | 29,500,000 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2043 | 28,830,479 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2044 | 27,723,390 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2045 | 24,318,601 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2046 | 19,310,031 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2047 | 18,626,435 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2048 | 16,291,191 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2049 | 9,742,001 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| 2050 | 3,789,709 | - | 2721.3 | 0 | 138.96 | - | - | - | - |
| | | | | | | | | Average | 1,171 |
| | | | | | | | | Total | 32,786 |

**Construction (vegetation clearing)**

Clear, grubbing and mulching to stockpile all vegetation within earthworks areas
Clearing, grubbing and mulching
Based on assumption of 100% 'open woodlands'

| | | | Emission factor (kg CO2-e/ha) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Clearing (ha) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 122 | 311620 | 0 | 0 | 38,018 | - | - | 38,018 |
| 2024 | 20,976,889 | - | 0 | 0 | 0 | - | - | - | - |
| 2025 | 18,177,901 | - | 0 | 0 | 0 | - | - | - | - |
| 2026 | 28,173,230 | - | 0 | 0 | 0 | - | - | - | - |
| 2027 | 30,409,148 | - | 0 | 0 | 0 | - | - | - | - |
| 2028 | 31,213,520 | - | 0 | 0 | 0 | - | - | - | - |
| 2029 | 30,710,095 | - | 0 | 0 | 0 | - | - | - | - |
| 2030 | 31,500,000 | - | 0 | 0 | 0 | - | - | - | - |
| 2031 | 29,370,406 | - | 0 | 0 | 0 | - | - | - | - |
| 2032 | 30,057,815 | - | 0 | 0 | 0 | - | - | - | - |
| 2033 | 30,797,847 | - | 0 | 0 | 0 | - | - | - | - |
| 2034 | 31,500,000 | - | 0 | 0 | 0 | - | - | - | - |
| 2035 | 31,012,508 | - | 0 | 0 | 0 | - | - | - | - |
| 2036 | 31,500,000 | - | 0 | 0 | 0 | - | - | - | - |
| 2037 | 31,433,780 | - | 0 | 0 | 0 | - | - | - | - |
| 2038 | 29,452,270 | - | 0 | 0 | 0 | - | - | - | - |
| 2039 | 34,000,894 | - | 0 | 0 | 0 | - | - | - | - |
| 2040 | 38,263,102 | - | 0 | 0 | 0 | - | - | - | - |
| 2041 | 29,996,243 | - | 0 | 0 | 0 | - | - | - | - |
| 2042 | 29,500,000 | - | 0 | 0 | 0 | - | - | - | - |
| 2043 | 28,830,479 | - | 0 | 0 | 0 | - | - | - | - |
| 2044 | 27,723,390 | - | 0 | 0 | 0 | - | - | - | - |
| 2045 | 24,318,601 | - | 0 | 0 | 0 | - | - | - | - |
| 2046 | 19,310,031 | - | 0 | 0 | 0 | - | - | - | - |
| 2047 | 18,626,435 | - | 0 | 0 | 0 | - | - | - | - |
| 2048 | 16,291,191 | - | 0 | 0 | 0 | - | - | - | - |
| 2049 | 9,742,001 | - | 0 | 0 | 0 | - | - | - | - |
| 2050 | 3,789,709 | - | 0 | 0 | 0 | - | - | - | - |
| | | | | | | | | Average | 1,358 |
| | | | | | | | | Total | 38,018 |

**Electricity usage**

| | | | Emission factor (kg CO2-e/kWh) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Usage (kWh) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 83,322,189 | 0 | 0.78 | 0.07 | - | 64,991 | 5,833 | 70,824 |
| 2024 | 20,976,889 | 85,700,030 | 0 | 0.78 | 0.07 | - | 66,846 | 5,999 | 72,845 |
| 2025 | 18,177,901 | 73,493,397 | 0 | 0.78 | 0.07 | - | 57,325 | 5,145 | 62,469 |
| 2026 | 28,173,230 | 101,368,950 | 0 | 0.78 | 0.07 | - | 79,068 | 7,096 | 86,164 |
| 2027 | 30,409,148 | 101,247,116 | 0 | 0.78 | 0.07 | - | 78,973 | 7,087 | 86,060 |
| 2028 | 31,213,520 | 101,198,290 | 0 | 0.78 | 0.07 | - | 78,935 | 7,084 | 86,019 |
| 2029 | 30,710,095 | 101,981,277 | 0 | 0.78 | 0.07 | - | 79,545 | 7,139 | 86,684 |
| 2030 | 31,500,000 | 101,797,185 | 0 | 0.78 | 0.07 | - | 79,402 | 7,126 | 86,528 |
| 2031 | 29,370,406 | 103,262,534 | 0 | 0.78 | 0.07 | - | 80,545 | 7,228 | 87,773 |
| 2032 | 30,057,815 | 102,089,665 | 0 | 0.78 | 0.07 | - | 79,630 | 7,146 | 86,776 |
| 2033 | 30,797,847 | 102,909,897 | 0 | 0.78 | 0.07 | - | 80,270 | 7,204 | 87,473 |
| 2034 | 31,500,000 | 102,404,475 | 0 | 0.78 | 0.07 | - | 79,875 | 7,168 | 87,044 |
| 2035 | 31,012,508 | 102,830,321 | 0 | 0.78 | 0.07 | - | 80,208 | 7,198 | 87,406 |
| 2036 | 31,500,000 | 102,437,642 | 0 | 0.78 | 0.07 | - | 79,901 | 7,171 | 87,072 |
| 2037 | 31,433,780 | 102,700,813 | 0 | 0.78 | 0.07 | - | 80,107 | 7,189 | 87,296 |
| 2038 | 29,452,270 | 102,339,730 | 0 | 0.78 | 0.07 | - | 79,825 | 7,164 | 86,989 |
| 2039 | 34,000,894 | 99,225,771 | 0 | 0.78 | 0.07 | - | 77,396 | 6,946 | 84,342 |
| 2040 | 38,263,102 | 100,707,559 | 0 | 0.78 | 0.07 | - | 78,552 | 7,050 | 85,601 |
| 2041 | 29,996,243 | 81,301,208 | 0 | 0.78 | 0.07 | - | 63,415 | 5,691 | 69,106 |
| 2042 | 29,500,000 | 81,774,492 | 0 | 0.78 | 0.07 | - | 63,784 | 5,724 | 69,508 |
| 2043 | 28,830,479 | 85,889,059 | 0 | 0.78 | 0.07 | - | 66,993 | 6,012 | 73,006 |
| 2044 | 27,723,390 | 85,139,025 | 0 | 0.78 | 0.07 | - | 66,408 | 5,960 | 72,368 |
| 2045 | 24,318,601 | 78,987,777 | 0 | 0.78 | 0.07 | - | 61,610 | 5,529 | 67,140 |
| 2046 | 19,310,031 | 66,810,499 | 0 | 0.78 | 0.07 | - | 52,112 | 4,677 | 56,789 |
| 2047 | 18,626,435 | 63,788,949 | 0 | 0.78 | 0.07 | - | 49,755 | 4,465 | 54,221 |
| 2048 | 16,291,191 | 55,373,364 | 0 | 0.78 | 0.07 | - | 43,191 | 3,876 | 47,067 |
| 2049 | 9,742,001 | 33,026,448 | 0 | 0.78 | 0.07 | - | 25,761 | 2,312 | 28,072 |
| 2050 | 3,789,709 | 12,896,584 | 0 | 0.78 | 0.07 | - | 10,059 | 903 | 10,962 |
| | | | | | | | | Average | 73,343 |
| | | | | | | | | Total | 2,053,604 |

| Transport (Rail) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Factor | kg CO2-e/t.km | 0.03333 | DEFRA 2019 - Freighting goods - Freight train | | | | | | |
| Distance | km | 150 | Assumed distance to port | | | | | | |
| | | | Emission factor (kg CO2-e/t) | | | Emissions (t CO2-e/year) | | | |
| Year | Product coal (t) | - | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 15,621,978 | - | 0 | 0 | 5.00 | - | - | 78,102 | 78,102 |
| 2024 | 16,078,521 | - | 0 | 0 | 5.00 | - | - | 80,385 | 80,385 |
| 2025 | 13,414,902 | - | 0 | 0 | 5.00 | - | - | 67,068 | 67,068 |
| 2026 | 20,405,739 | - | 0 | 0 | 5.00 | - | - | 102,018 | 102,018 |
| 2027 | 22,289,674 | - | 0 | 0 | 5.00 | - | - | 111,437 | 111,437 |
| 2028 | 22,658,842 | - | 0 | 0 | 5.00 | - | - | 113,283 | 113,283 |
| 2029 | 22,302,463 | - | 0 | 0 | 5.00 | - | - | 111,501 | 111,501 |
| 2030 | 22,901,244 | - | 0 | 0 | 5.00 | - | - | 114,495 | 114,495 |
| 2031 | 21,555,507 | - | 0 | 0 | 5.00 | - | - | 107,767 | 107,767 |
| 2032 | 21,953,273 | - | 0 | 0 | 5.00 | - | - | 109,755 | 109,755 |
| 2033 | 22,563,894 | - | 0 | 0 | 5.00 | - | - | 112,808 | 112,808 |
| 2034 | 22,914,206 | - | 0 | 0 | 5.00 | - | - | 114,560 | 114,560 |
| 2035 | 22,581,194 | - | 0 | 0 | 5.00 | - | - | 112,895 | 112,895 |
| 2036 | 22,731,922 | - | 0 | 0 | 5.00 | - | - | 113,648 | 113,648 |
| 2037 | 22,828,564 | - | 0 | 0 | 5.00 | - | - | 114,131 | 114,131 |
| 2038 | 21,286,478 | - | 0 | 0 | 5.00 | - | - | 106,422 | 106,422 |
| 2039 | 24,547,432 | - | 0 | 0 | 5.00 | - | - | 122,725 | 122,725 |
| 2040 | 27,628,923 | - | 0 | 0 | 5.00 | - | - | 138,131 | 138,131 |
| 2041 | 21,866,548 | - | 0 | 0 | 5.00 | - | - | 109,322 | 109,322 |
| 2042 | 21,536,568 | - | 0 | 0 | 5.00 | - | - | 107,672 | 107,672 |
| 2043 | 20,792,448 | - | 0 | 0 | 5.00 | - | - | 103,952 | 103,952 |
| 2044 | 19,984,728 | - | 0 | 0 | 5.00 | - | - | 99,914 | 99,914 |
| 2045 | 17,884,768 | - | 0 | 0 | 5.00 | - | - | 89,415 | 89,415 |
| 2046 | 13,717,221 | - | 0 | 0 | 5.00 | - | - | 68,579 | 68,579 |
| 2047 | 13,222,450 | - | 0 | 0 | 5.00 | - | - | 66,106 | 66,106 |
| 2048 | 11,624,646 | - | 0 | 0 | 5.00 | - | - | 58,117 | 58,117 |
| 2049 | 6,889,746 | - | 0 | 0 | 5.00 | - | - | 34,445 | 34,445 |
| 2050 | 2,715,202 | - | 0 | 0 | 5.00 | - | - | 13,575 | 13,575 |
| | | | | | | | | Average | 95,794 |
| | | | | | | | | Total | 2,682,227 |

| Transport (Shipping) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Factor | kg CO2-e/t.km | 0.00354 | DEFRA 2019 - Freighting goods - Cargo ship, bulk carrier, average | | | | | | |
| Distance | km | 8000 | Assumed distance to market | | | | | | |
| | | | Emission factor (kg CO2-e/t) | | | Emissions (t CO2-e/year) | | | |
| Year | Product coal (t) | - | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 15,621,978 | - | 0 | 0 | 28.31 | - | - | 442,289 | 442,289 |
| 2024 | 16,078,521 | - | 0 | 0 | 28.31 | - | - | 455,215 | 455,215 |
| 2025 | 13,414,902 | - | 0 | 0 | 28.31 | - | - | 379,803 | 379,803 |
| 2026 | 20,405,739 | - | 0 | 0 | 28.31 | - | - | 577,727 | 577,727 |
| 2027 | 22,289,674 | - | 0 | 0 | 28.31 | - | - | 631,065 | 631,065 |
| 2028 | 22,658,842 | - | 0 | 0 | 28.31 | - | - | 641,517 | 641,517 |
| 2029 | 22,302,463 | - | 0 | 0 | 28.31 | - | - | 631,427 | 631,427 |
| 2030 | 22,901,244 | - | 0 | 0 | 28.31 | - | - | 648,380 | 648,380 |
| 2031 | 21,555,507 | - | 0 | 0 | 28.31 | - | - | 610,280 | 610,280 |
| 2032 | 21,953,273 | - | 0 | 0 | 28.31 | - | - | 621,541 | 621,541 |
| 2033 | 22,563,894 | - | 0 | 0 | 28.31 | - | - | 638,829 | 638,829 |
| 2034 | 22,914,206 | - | 0 | 0 | 28.31 | - | - | 648,747 | 648,747 |
| 2035 | 22,581,194 | - | 0 | 0 | 28.31 | - | - | 639,319 | 639,319 |
| 2036 | 22,731,922 | - | 0 | 0 | 28.31 | - | - | 643,586 | 643,586 |
| 2037 | 22,828,564 | - | 0 | 0 | 28.31 | - | - | 646,322 | 646,322 |
| 2038 | 21,286,478 | - | 0 | 0 | 28.31 | - | - | 602,663 | 602,663 |
| 2039 | 24,547,432 | - | 0 | 0 | 28.31 | - | - | 694,987 | 694,987 |
| 2040 | 27,628,923 | - | 0 | 0 | 28.31 | - | - | 782,230 | 782,230 |
| 2041 | 21,866,548 | - | 0 | 0 | 28.31 | - | - | 619,086 | 619,086 |
| 2042 | 21,536,568 | - | 0 | 0 | 28.31 | - | - | 609,743 | 609,743 |
| 2043 | 20,792,448 | - | 0 | 0 | 28.31 | - | - | 588,676 | 588,676 |
| 2044 | 19,984,728 | - | 0 | 0 | 28.31 | - | - | 565,808 | 565,808 |
| 2045 | 17,884,768 | - | 0 | 0 | 28.31 | - | - | 506,354 | 506,354 |
| 2046 | 13,717,221 | - | 0 | 0 | 28.31 | - | - | 388,362 | 388,362 |
| 2047 | 13,222,450 | - | 0 | 0 | 28.31 | - | - | 374,354 | 374,354 |
| 2048 | 11,624,646 | - | 0 | 0 | 28.31 | - | - | 329,117 | 329,117 |
| 2049 | 6,889,746 | - | 0 | 0 | 28.31 | - | - | 195,062 | 195,062 |
| 2050 | 2,715,202 | - | 0 | 0 | 28.31 | - | - | 76,873 | 76,873 |
| | | | | | | | | Average | 542,477 |
| | | | | | | | | Total | 15,189,362 |

**Energy Production**

| | | | Emission factor (kg CO2-e/t) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Thermal coal (t) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 12,582,126 | 0 | 0 | 2436.48 | - | - | 30,656,098 | 30,656,098 |
| 2024 | 20,976,889 | 13,396,152 | 0 | 0 | 2436.48 | - | - | 32,639,457 | 32,639,457 |
| 2025 | 18,177,901 | 10,173,423 | 0 | 0 | 2436.48 | - | - | 24,787,341 | 24,787,341 |
| 2026 | 28,173,230 | 17,015,120 | 0 | 0 | 2436.48 | - | - | 41,456,999 | 41,456,999 |
| 2027 | 30,409,148 | 14,690,022 | 0 | 0 | 2436.48 | - | - | 35,791,945 | 35,791,945 |
| 2028 | 31,213,520 | 18,899,806 | 0 | 0 | 2436.48 | - | - | 46,048,999 | 46,048,999 |
| 2029 | 30,710,095 | 19,516,743 | 0 | 0 | 2436.48 | - | - | 47,552,154 | 47,552,154 |
| 2030 | 31,500,000 | 19,749,740 | 0 | 0 | 2436.48 | - | - | 48,119,846 | 48,119,846 |
| 2031 | 29,370,406 | 18,291,832 | 0 | 0 | 2436.48 | - | - | 44,567,683 | 44,567,683 |
| 2032 | 30,057,815 | 19,033,258 | 0 | 0 | 2436.48 | - | - | 46,374,152 | 46,374,152 |
| 2033 | 30,797,847 | 20,167,165 | 0 | 0 | 2436.48 | - | - | 49,136,893 | 49,136,893 |
| 2034 | 31,500,000 | 20,658,743 | 0 | 0 | 2436.48 | - | - | 50,334,615 | 50,334,615 |
| 2035 | 31,012,508 | 20,389,938 | 0 | 0 | 2436.48 | - | - | 49,679,677 | 49,679,677 |
| 2036 | 31,500,000 | 21,289,234 | 0 | 0 | 2436.48 | - | - | 51,870,792 | 51,870,792 |
| 2037 | 31,433,780 | 21,524,431 | 0 | 0 | 2436.48 | - | - | 52,443,846 | 52,443,846 |
| 2038 | 29,452,270 | 19,995,997 | 0 | 0 | 2436.48 | - | - | 48,719,846 | 48,719,846 |
| 2039 | 34,000,894 | 21,943,323 | 0 | 0 | 2436.48 | - | - | 53,464,468 | 53,464,468 |
| 2040 | 38,263,102 | 25,038,592 | 0 | 0 | 2436.48 | - | - | 61,006,029 | 61,006,029 |
| 2041 | 29,996,243 | 18,934,786 | 0 | 0 | 2436.48 | - | - | 46,134,226 | 46,134,226 |
| 2042 | 29,500,000 | 19,592,396 | 0 | 0 | 2436.48 | - | - | 47,736,480 | 47,736,480 |
| 2043 | 28,830,479 | 18,653,635 | 0 | 0 | 2436.48 | - | - | 45,449,209 | 45,449,209 |
| 2044 | 27,723,390 | 18,133,210 | 0 | 0 | 2436.48 | - | - | 44,181,203 | 44,181,203 |
| 2045 | 24,318,601 | 17,713,169 | 0 | 0 | 2436.48 | - | - | 43,157,781 | 43,157,781 |
| 2046 | 19,310,031 | 12,708,649 | 0 | 0 | 2436.48 | - | - | 30,964,369 | 30,964,369 |
| 2047 | 18,626,435 | 11,926,052 | 0 | 0 | 2436.48 | - | - | 29,057,588 | 29,057,588 |
| 2048 | 16,291,191 | 10,610,491 | 0 | 0 | 2436.48 | - | - | 25,852,248 | 25,852,248 |
| 2049 | 9,742,001 | 6,054,636 | 0 | 0 | 2436.48 | - | - | 14,751,998 | 14,751,998 |
| 2050 | 3,789,709 | 2,483,592 | 0 | 0 | 2436.48 | - | - | 6,051,222 | 6,051,222 |
| | | | | | | | | Average | 40,999,542 |
| | | | | | | | | Total | 1,147,987,168 |

**Coking coal use**

| | | | Emission factor (kg CO2-e/t) | | | Emissions (t CO2-e/year) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | ROM coal (t) | Coking coal (t) | Scope 1 | Scope 2 | Scope 3 | Scope 1 | Scope 2 | Scope 3 | Total |
| 2023 | 19,908,276 | 3,039,852 | 0 | 0 | 2760.9 | - | - | 8,392,726 | 8,392,726 |
| 2024 | 20,976,889 | 2,682,368 | 0 | 0 | 2760.9 | - | - | 7,405,751 | 7,405,751 |
| 2025 | 18,177,901 | 3,241,479 | 0 | 0 | 2760.9 | - | - | 8,949,399 | 8,949,399 |
| 2026 | 28,173,230 | 3,390,619 | 0 | 0 | 2760.9 | - | - | 9,361,160 | 9,361,160 |
| 2027 | 30,409,148 | 7,599,652 | 0 | 0 | 2760.9 | - | - | 20,981,880 | 20,981,880 |
| 2028 | 31,213,520 | 3,759,036 | 0 | 0 | 2760.9 | - | - | 10,378,322 | 10,378,322 |
| 2029 | 30,710,095 | 2,785,720 | 0 | 0 | 2760.9 | - | - | 7,691,095 | 7,691,095 |
| 2030 | 31,500,000 | 3,151,504 | 0 | 0 | 2760.9 | - | - | 8,700,989 | 8,700,989 |
| 2031 | 29,370,406 | 3,263,675 | 0 | 0 | 2760.9 | - | - | 9,010,682 | 9,010,682 |
| 2032 | 30,057,815 | 2,920,015 | 0 | 0 | 2760.9 | - | - | 8,061,870 | 8,061,870 |
| 2033 | 30,797,847 | 2,396,730 | 0 | 0 | 2760.9 | - | - | 6,617,132 | 6,617,132 |
| 2034 | 31,500,000 | 2,255,463 | 0 | 0 | 2760.9 | - | - | 6,227,108 | 6,227,108 |
| 2035 | 31,012,508 | 2,191,256 | 0 | 0 | 2760.9 | - | - | 6,049,838 | 6,049,838 |
| 2036 | 31,500,000 | 1,442,688 | 0 | 0 | 2760.9 | - | - | 3,983,117 | 3,983,117 |
| 2037 | 31,433,780 | 1,304,132 | 0 | 0 | 2760.9 | - | - | 3,600,579 | 3,600,579 |
| 2038 | 29,452,270 | 1,290,481 | 0 | 0 | 2760.9 | - | - | 3,562,889 | 3,562,889 |
| 2039 | 34,000,894 | 2,604,109 | 0 | 0 | 2760.9 | - | - | 7,189,684 | 7,189,684 |
| 2040 | 38,263,102 | 2,590,331 | 0 | 0 | 2760.9 | - | - | 7,151,645 | 7,151,645 |
| 2041 | 29,996,243 | 2,931,762 | 0 | 0 | 2760.9 | - | - | 8,094,303 | 8,094,303 |
| 2042 | 29,500,000 | 1,944,172 | 0 | 0 | 2760.9 | - | - | 5,367,665 | 5,367,665 |
| 2043 | 28,830,479 | 2,138,812 | 0 | 0 | 2760.9 | - | - | 5,905,047 | 5,905,047 |
| 2044 | 27,723,390 | 1,851,518 | 0 | 0 | 2760.9 | - | - | 5,111,857 | 5,111,857 |
| 2045 | 24,318,601 | 171,599 | 0 | 0 | 2760.9 | - | - | 473,768 | 473,768 |
| 2046 | 19,310,031 | 1,008,572 | 0 | 0 | 2760.9 | - | - | 2,784,567 | 2,784,567 |
| 2047 | 18,626,435 | 1,296,398 | 0 | 0 | 2760.9 | - | - | 3,579,224 | 3,579,224 |
| 2048 | 16,291,191 | 1,014,156 | 0 | 0 | 2760.9 | - | - | 2,799,983 | 2,799,983 |
| 2049 | 9,742,001 | 835,111 | 0 | 0 | 2760.9 | - | - | 2,305,657 | 2,305,657 |
| 2050 | 3,789,709 | 231,610 | 0 | 0 | 2760.9 | - | - | 639,453 | 639,453 |
| | | | | | | | | Average | 6,442,050 |
| | | | | | | | | Total | 180,377,386 |

# Appendix H. Modelling of alternative meteorological year

The potential effects of using an alternative meteorological dataset have been considered. Meteorological data from 2020 were subsequently used to simulate the potential contributions of the Project to local air quality. **Figure H1** shows the modelled annual average $PM_{10}$ concentrations due to the Project using 2014 and 2020 meteorological data. The contribution of the Project to local air quality (that is, $PM_{10}$) is expected to be similar from year-to-year and the conclusions of the assessment will not change from this information.

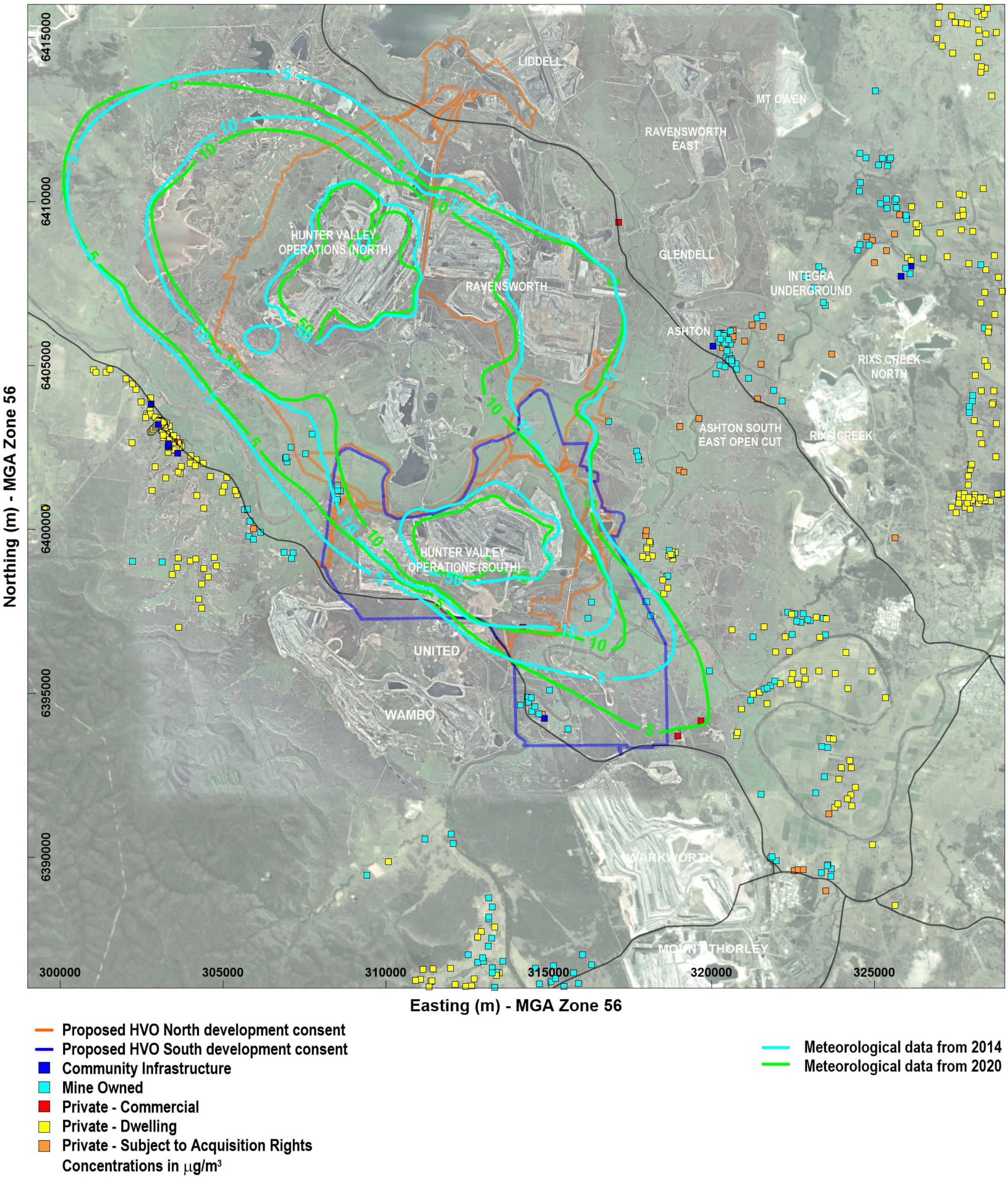


Figure H1 Comparison of modelled annual average $PM_{10}$ for different meteorological datasets