



Harvest Scientific Services
Environmental and Earth Science Consultants

AIR QUALITY MONITORING PLAN

FOR

SPRING FARM SAND AND SOIL EXTRACTION (Continuation of existing operations)

186 MACARTHUR ROAD, SPRING FARM

Prepared for:

M Collins and Sons Holdings Pty Ltd



Project Reference: 75/256/4

Date: 22/10/2021

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All Correspondence to: PO Box 427 Narellan NSW 2567
Unit 4A, 20 Somerset Avenue Narellan NSW 2567
www.harvestservices.com.au
Email: office@harvestservices.com.au
Tel: 02 4647 6177 • Mobile: 0408 677 709

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1. INTRODUCTION

1.1. Background

M Collins and Sons Holdings Pty Ltd (MCS) owns and operates the Spring Farm Quarry located at Spring Farm (Figure 1). Development consent for the extraction of sand and soil was originally granted by the Minister for Planning in 1988 and the consent was modified in 1998 to extend the quarry's life. The site is a major source of sand and soil products for the Sydney region and comprises part of the regionally significant resource identified in the Sydney Regional Environmental Plan No 9 (Extractive Industry). Since the original grant, there have been a number of modifications applied to the project, the most recent of which (Modification No 5) was determined on 23rd April, 2021. The main feature of this modification (Appendix 1) was to vary the exceedance criteria for particle matter emissions. This report now documents measures undertaken by MCS for the period 1/8/2020 to 30/6/2021.

1.2. Objectives

The objectives of the AQMP are to:

- define the short-term and long-term impact assessment criteria for Particulate Matter;
- define long-term impact assessment criteria for Deposited Dust; and
- outline the proposed monitoring regime for air quality impacts and minimise, mitigate and avoid air quality impacts through firm operational commitments.

1.3. Project Team

Table 1 outlines personnel who are contributors to the Air Quality Management Plan.

Table 1: Contributing Personnel to the Air Quality Management Plan			
Name	Position	Qualifications	Relevant experience
Matthew Collins	Managing Director and Temporary Quarry Manager as well as Nominated Environmental Manager Reporting (EMR)	BA Economics Site Permit and Certified Practicing Quarry Management Certificates issued by Quarry Institute of NSW and Institute of Quarrying Australia	40 + years in quarry development and management
Mart Rampe	Principal – Harvest Scientific Services (HSS)	Bachelor of Science in Applied Geology	40 + years in Earth Sciences, including 22+ years in quarry and mine site rehabilitation.

1.4. Environmental Protection License

This property is currently subject to an Environmental Protection Licence (EPL#: 4093) that is administered by the Environmental Protection Authority (EPA). The licence document as well as the most recent variations are attached as Appendix 2. Commentary from EPA is attached as Appendix 3.

2. SITE DESCRIPTION

2.1. Site location

The subject land, 186 MacArthur Road (Lot 22 DP 833317) and Lot 32 (DP653271) Spring Farm, is bound to the east by the Nepean River, to the north and south by rural residential land and to the east by MacArthur Road.

To townships of South Camden and Spring Farm are located to the west and east of the subject site respectively. The Camden Bypass (Macarthur Bridge) is located approximately 250m north of the northern boundary of the subject site.

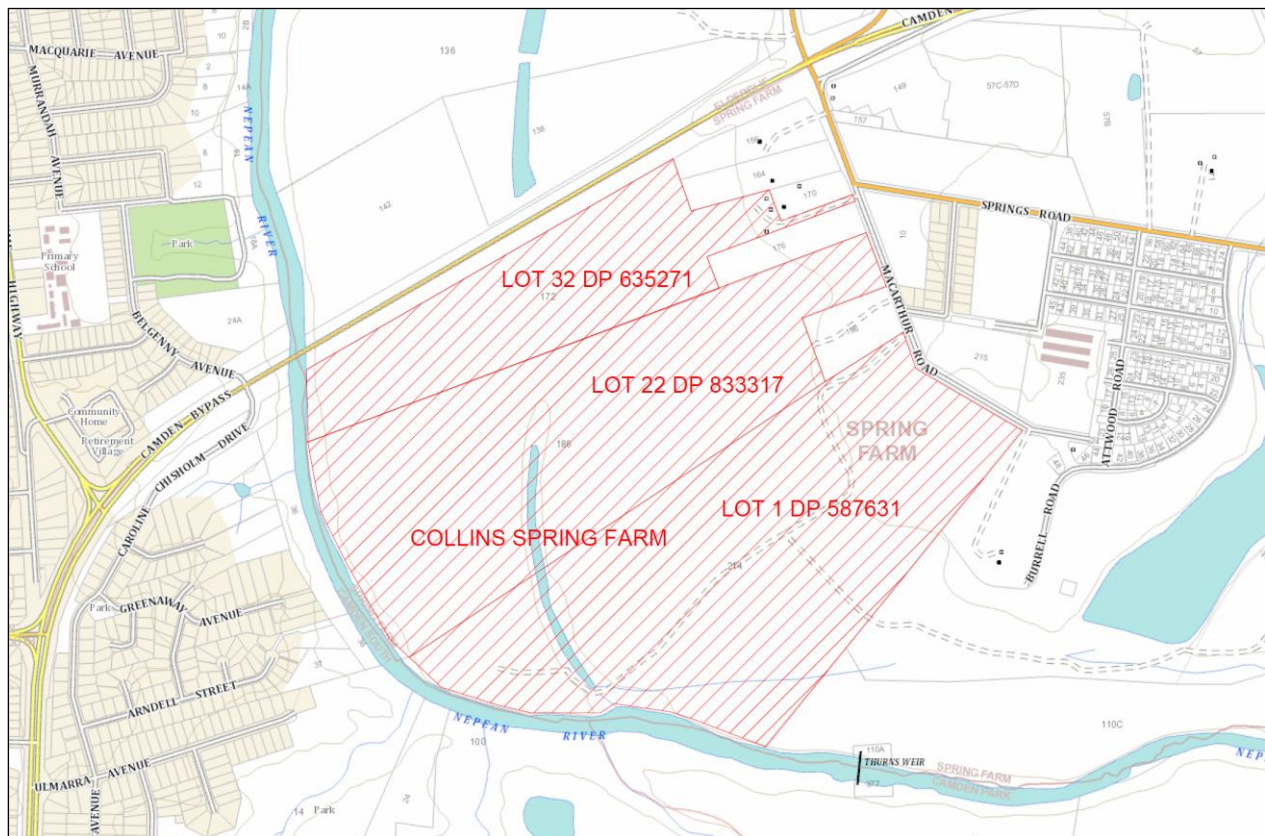


Figure 1. Location of Spring Farm Extraction and Processing Operations

2.2. Extraction and processing areas

The limits of the approved extraction areas within Lot 22 (DP 833317) and Lot 32 (DP635271) are depicted in Figure 2. No more than 5 hectares of land can be actively extracted at any given time as per Condition 2 Schedule 3 approval from Council dated 10th September 2009 (EMP Appendix 13).

Stockpiling and processing of sand and soil also occurs within the active extraction area of Lot 22 and in close proximity to the sand-wash plant located within Lot 1 – see also Figure 2.

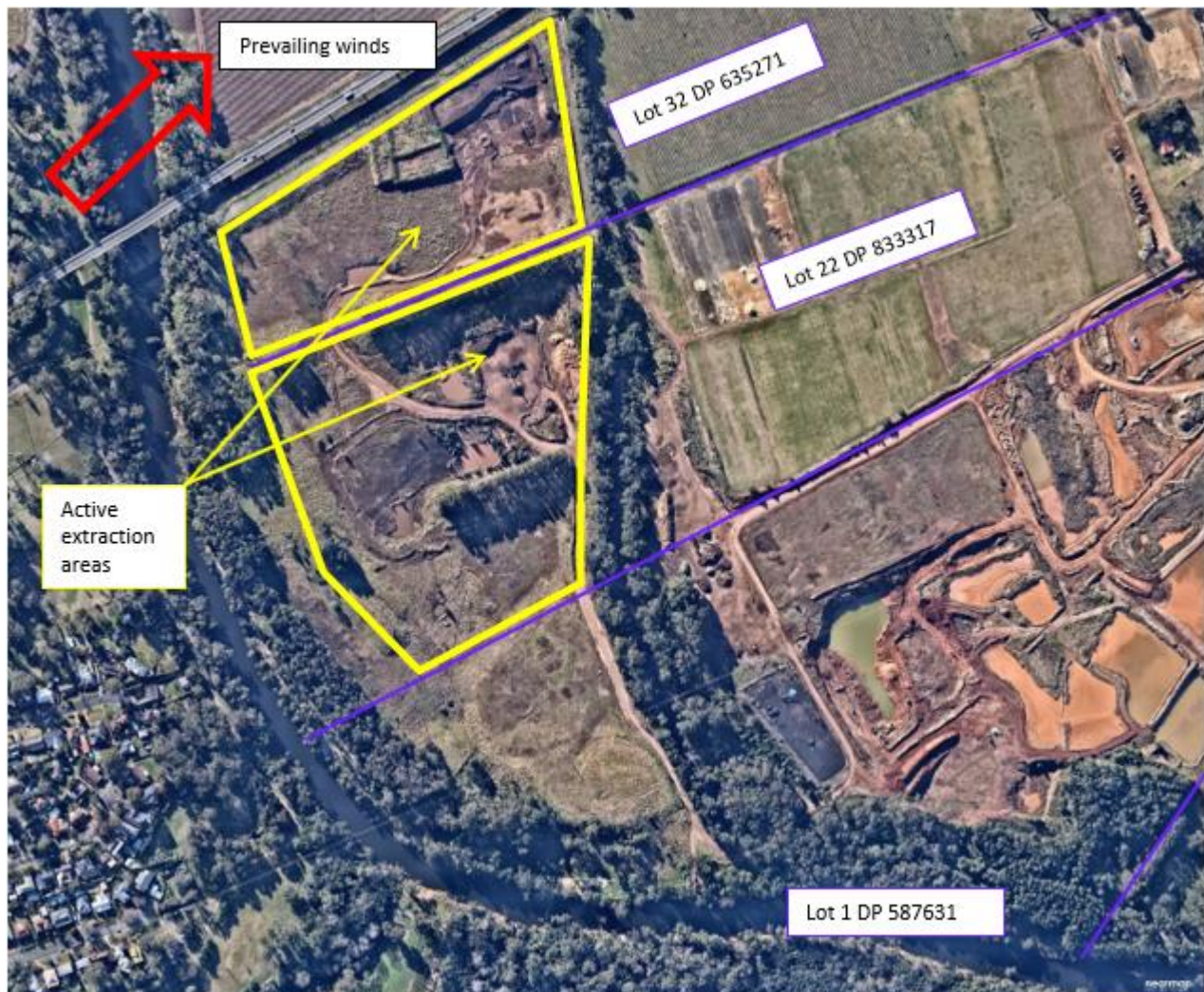


Figure 2. Plan of extraction and processing locations (July 2021)

2.3. Prevailing wind conditions

Wind rose diagrams from Camden Airport are attached as Appendix 4. Based on these diagrams, the following is a summary of the prevailing wind environment:

- The strongest prevailing winds (>40km/hr) blow from the south-west and west in the mornings and from the south, south-west and north-west in afternoon (3pm). These winds are considered to have the greatest potential to cause nuisance dust;
- Winds also blow from the north-east, east and south-east in the after (3pm), but wind speed is generally much less (<30km/hr); and
- Mornings are typically calmer (46% calm @ 9:00am) than in the afternoon (9% calm @ 3:00pm).

3. AIR QUALITY MONITORING PROTOCOL

3.1. Current Monitoring locations

The location of current air quality monitoring stations are illustrated on Figure 3.

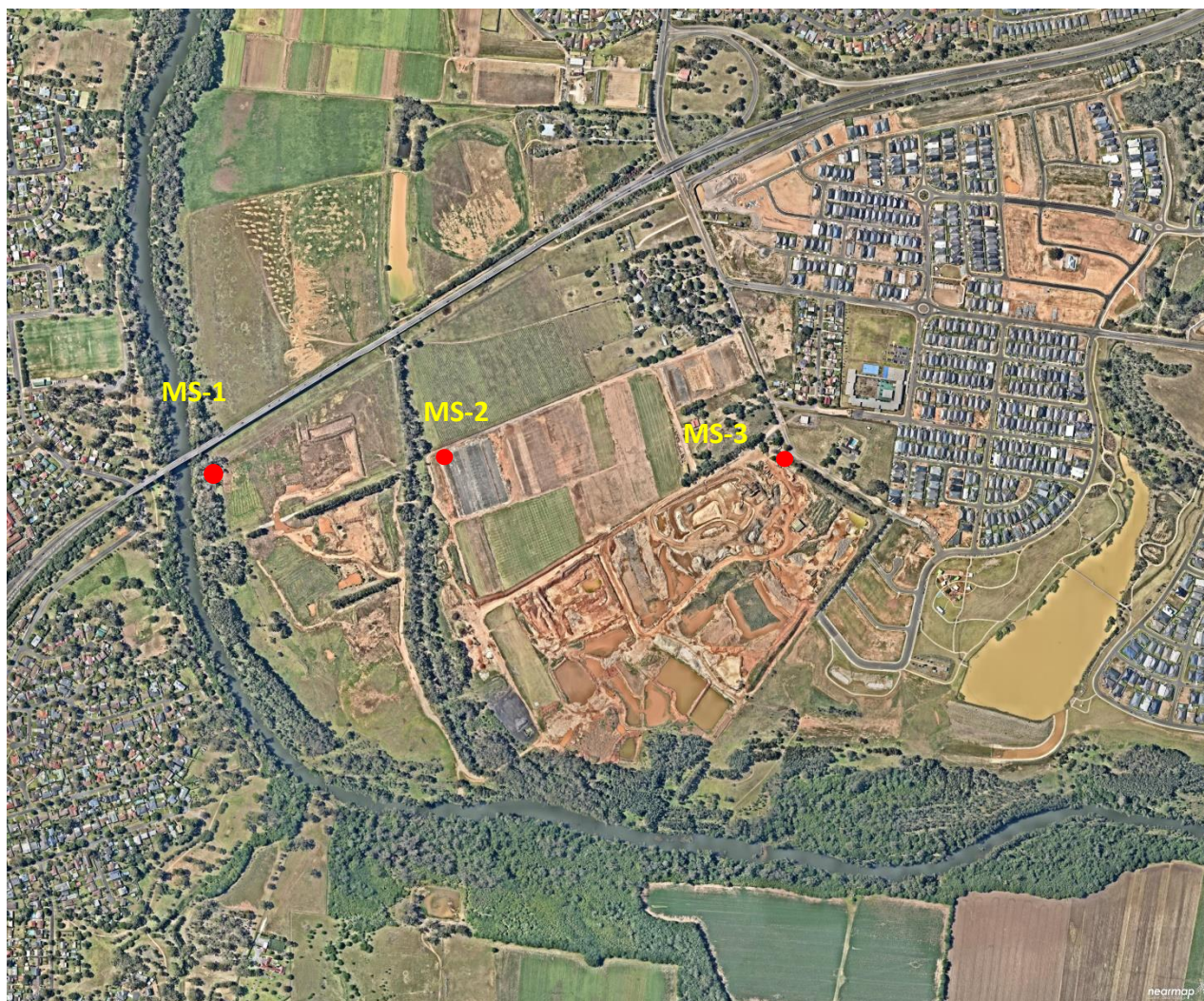


Figure 3: Recent aerial photograph of the Spring Farm extraction sites and location of dust monitoring points MS1, MS2 and MS3 (June 2021)

It should be noted that monitoring station MS-2 was relocated to a new position (see Figure 3) during the reporting period to better reflect Quarry generated dust levels. Approval for the relocation was granted via a variation of EPL 4093 on 9th December 2020 (Appendix 2).

3.2. Impact assessment criteria and monitoring frequency

Air quality impact assessment criteria is outlined in Tables 2 to 4.

Table 2: Long term impact assessment criteria for Particulate Matter				
Pollutant	Averaging period	Criterion	Monitoring frequency	Method of assessment
Total Suspended Particles (TSP) matter	Annual	90 µg/m ³	After any legitimate dust related complaint thereafter.	AM15 and AS2724.3-1984
Particulate Matter < 10µm (PM ₁₀)	Annual	25 µg/m ³	After any legitimate dust related complaint thereafter.	AM18 and AS3580.9.6-1990
Particulate Matter < 2.5µm (PM _{2.5})	Annual	8 µg/m ³	After any legitimate dust related complaint thereafter.	AM18 and AS3580.9.14 - 2013

Table 3: Short term impact assessment criteria for Particulate Matter				
Pollutant	Averaging period	Criterion	Monitoring frequency	Method of assessment
Particulate Matter < 10µm (PM ₁₀)	24 hour	50 µg/m ³	After any legitimate dust related complaint thereafter.	AM18 and AS3580.9.6-1990
Particulate Matter < 2.5µm (PM _{2.5})	24 hour	25 µg/m ³	After any legitimate dust related complaint thereafter.	AM18 and AS3580.9.14 - 2013

Table 4. Long term impact assessment criteria for Deposited Dust					
Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level¹	Monitoring frequency	Method of assessment
Deposited dust	Annual	2g/m ² /month	4g/m ² /month	Monthly	AS3580.10.1-2016

It should be noted that Tables 2 to 4 are based on criterion outlined in the Notice of Modification 5 from the DPE dated 23rd April 2021, whereas the method of assessment is based on National Environmental Protection (Ambient Air Quality) Measure and EPA publication entitled 'Approved Methods for the Sampling and Analysis of Air Pollutants in NSW'.

4. MONITORING RESULTS FOR 2020 – 2021

4.1. Introduction

During the 2020-2021 period of assessment, several sets of air quality monitoring data was assessed. This included two periods of TSP and PM10 assessment according to criteria set out in Tables 2 and 3 as well as monthly measurements of deposited dust (subject to criteria outlined in Table 4). Results are provided in the following sections.

4.2. TSP and PM10 Results

Results for TSP and PM10 results are outlined in Tables 5 to 6 and Figures 4 to 6.

Table 5: Summary of TSP and PM10 – November 2020

DATE COLLECTED	STATION 1		TURF FARM		STATION 3		SAMPLE ID	NOTES
	TSP	PM 10	TSP	PM 10	TSP	PM 10		
24-11-20				12.00			9780615	No Exceedance
23-11-20			27.10				9780614	No Exceedance
22-11-20				27.90			9780613	No Exceedance
21-11-20			84.70				9780612	No Exceedance
20-11-20				35.80			9780611	No Exceedance
19-11-20			70.80				9780610	No Exceedance
18-11-20				48.40			9780609	No Exceedance
17-11-20			59.80				9780608	No Exceedance
16-11-20				13.20			9780607	No Exceedance
15-11-20			13.60				9780606	No Exceedance

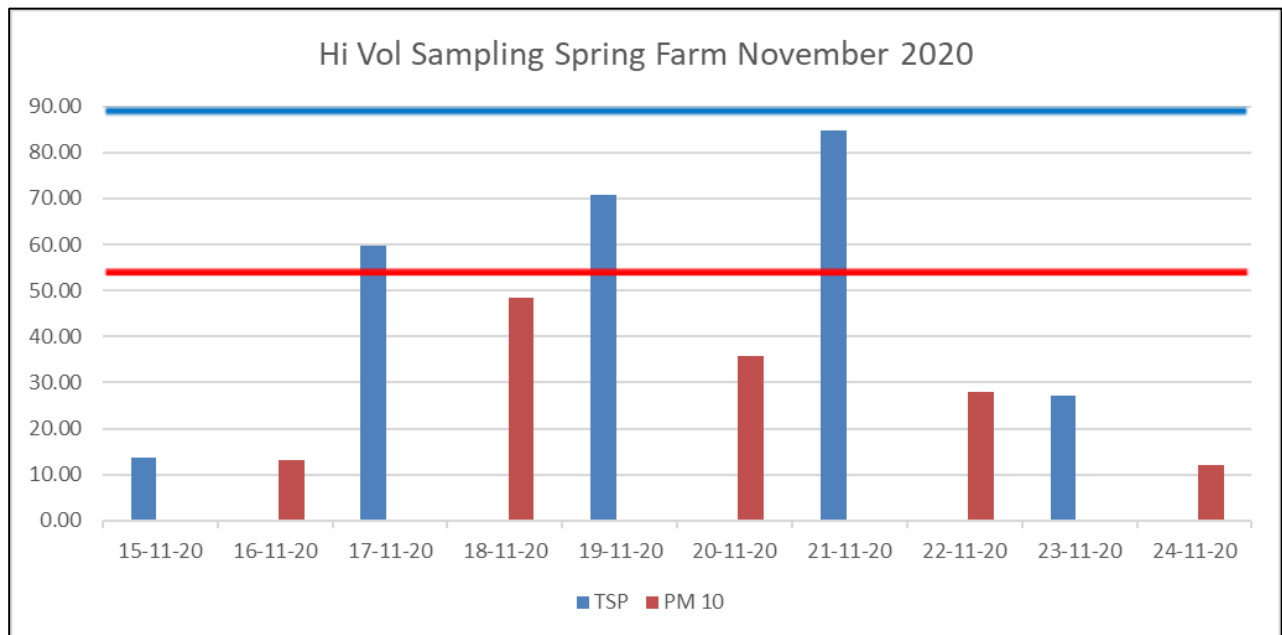
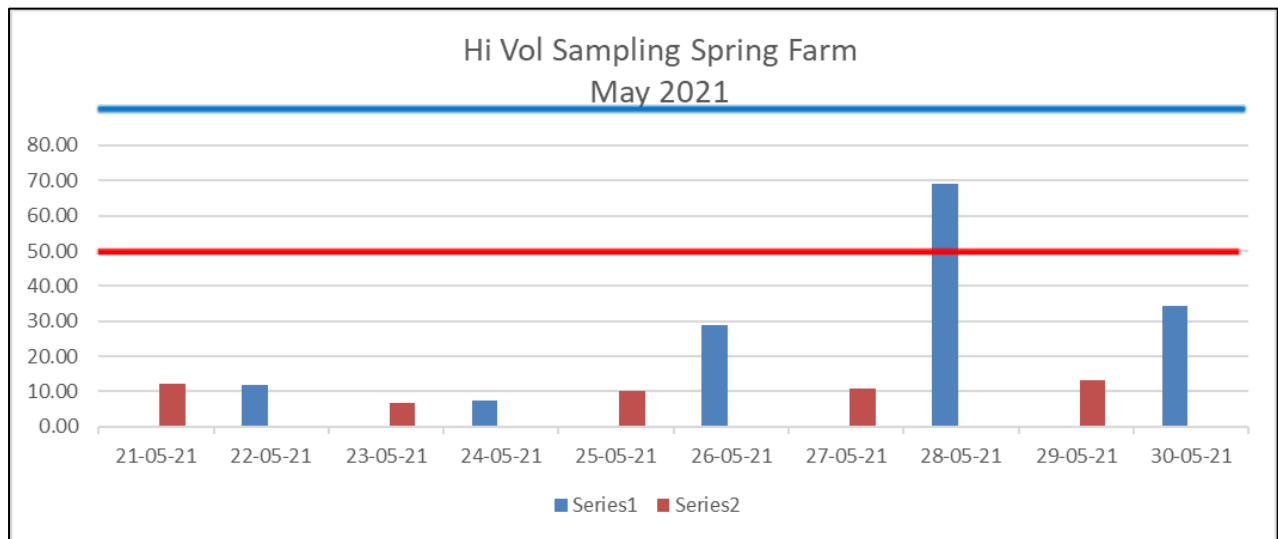


Figure 4: Graphical presentation of data for TSP and PM 10 showing exceedance limits for TSP and PM 10 – November 2020

Table 6: Summary of TSP and PM10 – May 2021

DATE COLLECTED	STATION 1		TURF FARM		STATION 3		SAMPLE ID	NOTES
	TSP	PM 10	TSP	PM 10	TSP	PM 10		
30-05-21			34.40				9915912	No Exceedance
29-05-21				13.30			9915911	No Exceedance
28-05-21			69.00				9915910	No Exceedance
27-05-21				10.80			9915909	No Exceedance
26-05-21			29.00				9915908	No Exceedance
25-05-21				10.20			9915907	No Exceedance
24-05-21			7.40				9915906	No Exceedance
23-05-21				6.80			9915905	No Exceedance
22-05-21			11.80				9929900	No Exceedance
21-05-21				12.30			9929899	No Exceedance

**Figure 5:** Graphical presentation of data for TSP and PM 10 showing exceedance limits for TSP and PM 10 – May 2021

4.3. Deposited Dust Results

Deposited dust results over the reporting period year are illustrated in Figure 6.

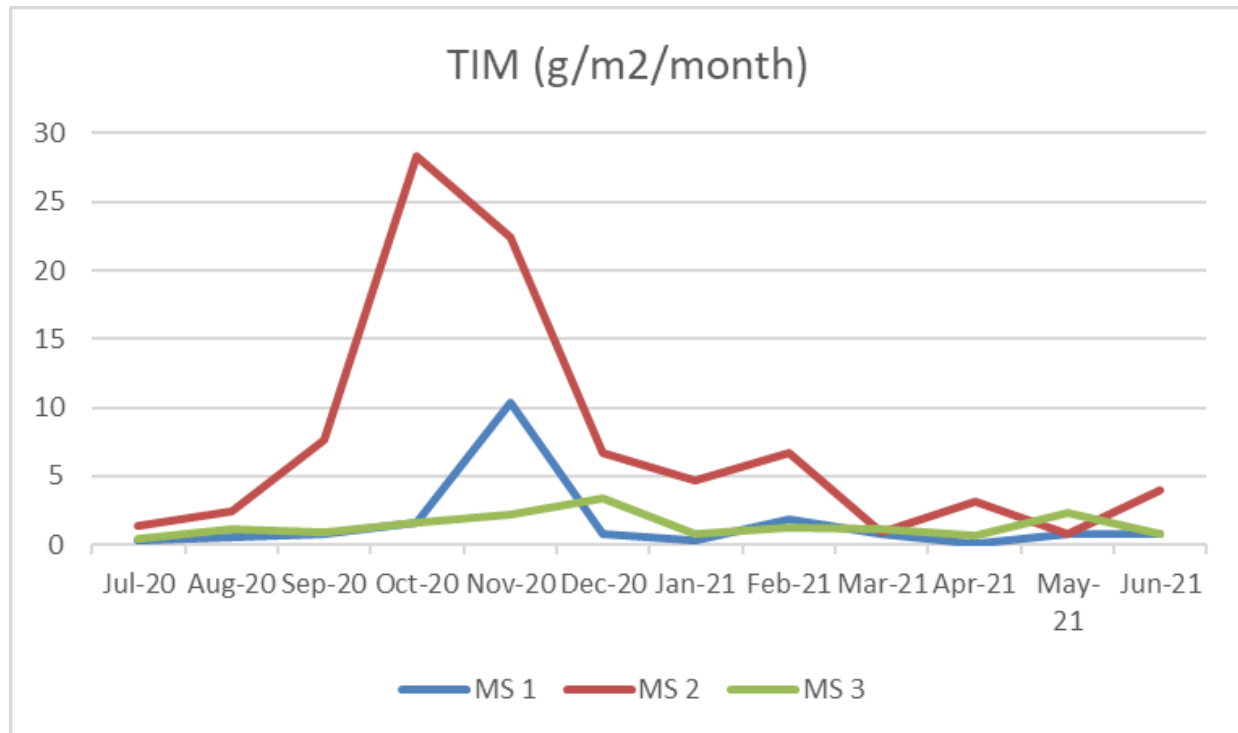


Figure 6: Deposited dust results during 2020 - 2021

Exceedances were observed at MS2 due to the encroachment of significant quarry activities. For this reason, the monitoring station was moved (following consent from the EPA to modify EPL 4093) in an easterly direction to better reflect general operating conditions.

5. OPERATING PROTOCOLS FOR DUST SUPPRESSION

In satisfaction of the most recent conditions of approval, a number of protocols were initiated at the commencement of the reporting period and included the following:

- **Watering:** All haul roads, stockpiles and acoustic bunding is subject to a daily wetting from an installed sprinkler system. Water cannons are utilized to wet down all stockpiles being held for sale to suppress fugitive dust emissions;
- **Plantings:** Upon the completion of final land forming, all surfaces are planted with appropriate grasses and shrubs. This includes quarry floors and batters;
- **Shut down:** All extractive and processing operations are shut down when wind conditions exceed acceptable velocities and threaten dust generation. This is a subjective assessment by the quarry manager and is based on past experience; and
- **Security:** Monitoring stations are cordoned off to prevent vandalism and nuisance readings where appropriate.

These protocols were applied to ensure that any visible air pollution generated by the development is assessed regularly, and that quarrying operations are relocated, modified and/or stopped as required to minimise air quality impacts on privately owned land.

Towards the end of the 2019, the following additional measures were implemented and have been maintained thereafter, viz:

- A Company owned water cart employed fulltime for haul roads and Macarthur Road;
- Additional Quarry Staff were trained on water cart operation to cover full days, staff leave or where a second water cart is required;
- Logbook usage is to be applied to water cart usage. The operator of the daily water cart is to record run times to ensure ongoing water cover at all times;
- Water Canons on sand stockpile areas are to be switched on daily;
- Water Pods along haul roads are to be switched on throughout the day when water carts are not traveling on the haul roads;
- Consideration and monitoring of any potential new grass cover plantings to occur due to loss of cover throughout drought conditions;
- Key staff particularly the EMR to continue to monitor site conditions and particularly identify where any outside worksites adjacent to the quarry perimeter are contributing to increased dust levels and work collaboratively to reduce their impact; and
- Street Sweeper activity for Macarthur Road is to be maintained to ensure dust does not track outside quarry gates.

Where daily assessment by the EMR identifies that operational protocols are unable to manage Dust levels, a decision on limiting normal business operations would be triggered in conjunction with Management.

6. MONITORING PROGRAM

In accordance with Consent requirements, MCS will continue the existing Air Quality Monitoring program. This program is two-fold and includes:

- Monthly dust deposition testing at MS1, MS2, M3 stations and;
- Voluntary bi-annual testing of PM10 and TSP.

In addition, and as a result of the approved modification 5, the test work will now incorporate PM 2.5. The Springfarm Quarry EMR will monitor the site on a daily basis and where extreme weather conditions prevail or appear to impact on Air Quality then operational protocols outlined in Section 5 above will be actioned under the control of the EMR.

In the event of a legitimate dust complaint being received from a neighboring residence or business, the EMR will initiate an appropriate investigation and where appropriate, will initiate the application of the most appropriate operational protocols to address the complaint. This will include a review process to assess the effectiveness of those protocols. In accordance with Consent requirements, should an incident and non-compliance occur, MCS's EMR shall report the details to the relevant agencies and the Department in compliance within 7 days from receiving notification.

Finally, and in accordance with Consent requirements, proposed monitoring will be subject to an Independent Environmental Audit and undertaken by an approved Auditor every three years. It is noted that the next Independent Audit is to be completed by 31st march, 2022.

7. CONCLUSIONS

It is concluded that the current Air Quality Monitoring Program satisfies recently imposed air quality conditions imposed upon the quarry. Furthermore, additional routine and voluntary monitoring for the next reporting period demonstrates the Company's commitment to Best Practice Quarry management.

Furthermore, the current protocols and those proposed for the next reporting period (2021-2022) will ensure that air quality in and around the quarry area will be of a standard which will meet all of the relevant criteria.



Mart Rampe BSc(Applied Geology)
Principal Environmental Consultant

22/10/2021

DISCLAIMER

This report was prepared in accordance with the scope of services set out in the contract between Harvest Scientific Services and the client, or where no contract has been finalised, the proposal agreed to by the client. To the best of our knowledge the report presented herein accurately reflects the clients intentions when it was printed. However, the application of conditions of approval or impacts of unanticipated future events could modify the outcomes described in this document.

The findings contained in this report are the result of discrete/specific methodologies used in accordance with normal practices and standards. To the best of our knowledge, they represent a reasonable interpretation of the general condition of the site in question. Under no circumstances, however, can it be considered that these findings represent the actual state of the site/sites at all points.

In preparing this report, Harvest Scientific Services has relied upon certain verbal information and documentation provided by the client and/or third parties. Harvest Scientific Services did not attempt to independently verify the accuracy or completeness of that information. To the extent that the conclusions and recommendations in this report are based in whole or in part on such information, they are contingent on its validity. Harvest Scientific Services assume no responsibility for any consequences arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to Harvest Scientific Services.

Appendix 1 Notice of Modification dated 23/4/2021

Notice of Modification

Section 4.55(1A) of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning and Public Spaces, I modify the development consent referred to in Schedule 1, subject to the conditions in Schedule 2.



Lauren Evans
A/Director
Resource Assessments

Sydney

23 April 2021

SCHEDULE 1

Development consent granted by the Minister for Planning on 13 October 1988 for the Spring Farm Quarry at 186 Macarthur Road, Lot 22 DP 833317 (formerly Lot 2 DP 625278 Vol 14788 Folio 34).

SCHEDULE 2

- In the list of definitions delete the terms "Department", "Development", "DoI", "DPI", "DRG", "Minister", "RMS" and "Secretary", and their definitions, and insert the following in alphabetical order:

Department	Department of Planning, Industry and Environment
Development	The operation, closure and rehabilitation of the Spring Farm Quarry as described in the documents listed in condition 2(a) of Schedule 2
DPI (Agriculture NSW)	The Agriculture Branch of the Primary Industries Group within the Department
DPIE Water	Water Group within the Department
Heritage NSW	Heritage NSW within the Department of Premier and Cabinet
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance
MEG	Mining, Exploration and Geoscience within Regional NSW
Minister	NSW Minister for Planning and Public Spaces, or delegate
MR (Mod 5)	Modification Report titled <i>Proposed Modification No. 5 Spring Farm Quarry Consent (DA 75/256), Lot 22 (No.186) DP 833317 and Part Lot 32 (No. 172) (DP 635271) Macarthur Road, Spring Farm, Environmental Assessment</i> prepared by Pascoe Planning Solutions, dated August 2020, and the associated Response to Submissions titled <i>Attachment "A" Spring Farm Quarry (Modification 5) – Submissions Response</i> dated 19 November 2020
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
Quarrying Operations	The extraction, processing, stockpiling and transportation of extractive materials carried out on the site and the associated removal of vegetation, topsoil and overburden
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting
Secretary	Planning Secretary under the EP&A Act, or nominee
- Delete all references to "DRG" and replace with "MEG".
- Delete all references to "DoI Lands and Water" and replace with "DPIE Water".

4. In condition 2(a) of Schedule 2:
 - (a) after “(Mod 3)”, delete the word “and” and replace with a comma; and
 - (b) after “(Mod 4)”, insert “and MR (Mod 5)”.
5. In condition 5 of Schedule 2, delete “2021” and replace with “2023”.
6. Delete condition 8 of Schedule 3 and insert the following:
 8. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 1, 2 and 3 at any residence on privately-owned land.

Table 1: Long term impact assessment criteria for particulate matter

Pollutant	Averaging period	Criterion
Total suspended particulate (TSP) matter	Annual	^{a, c} 90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	^{a, c} 25 µg/m ³
Particulate matter < 2.5 µm (PM _{2.5})	Annual	^{a, c} 8 µg/m ³

Table 2: Short term impact assessment criterion for particulate matter

Pollutant	Averaging period	Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	^b 50 µg/m ³
Particulate matter < 2.5 µm (PM _{2.5})	24 hour	^b 25 µg/m ³

Table 3: Long term impact assessment criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
^d Deposited dust	Annual	^b 2 g/m ² /month	^a 4 g/m ² /month

Notes:

- ^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 Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Planning Secretary.
- ^d 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.

- 8A. The air quality criteria in Tables 1, 2 and 3 do not apply if the Applicant has an agreement with the owner/s of the relevant residence to exceed the air quality criteria, and the Applicant has advised the Department in writing of the terms of this agreement.
7. In condition 19 of Schedule 3, delete all references to “EPA” and replace with “Heritage NSW”.
8. Delete condition 3 of Schedule 5 and the preceding headings titled “REPORTING” and “Incident Reporting” and insert the following:

REPORTING AND AUDITING

Incident Notification

3. The Applicant must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name) and set out the location and nature of the incident.

Non-Compliance Notification

4. Within seven days of becoming aware of a non-compliance, the Applicant must notify the Department of the non-compliance. The notification must be in writing via the Major Projects Website and identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

9. Update the Table of Contents to reflect changes made by this instrument.

Appendix 2 EPL 4093. Notice of Variation and EPL – Licence version dated 9/12/2020

Licence Variation

Licence - 4093



M COLLINS & SONS HOLDINGS PTY LTD
ABN 28 000 521 871 ACN 000 521 871
PO BOX 378
NARELLAN NSW 2567

Attention: Emma Collins

Notice Number 1603645
File Number EF13/3244
Date 09-Dec-2020

NOTICE OF VARIATION OF LICENCE NO. 4093

BACKGROUND

- A. M COLLINS & SONS HOLDINGS PTY LTD ("the licensee") is the holder of Environment Protection Licence No. 4093 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of activities at 214 MACARTHUR ROAD, SPRING FARM, NSW, 2570 ("the premises").
- B. The Environment Protection Authority (EPA) wrote to the licensee on 18.10.2020 a 'Notice of Review of Environment Protection Licence No. 4093.'
- C. The EPA requested comment from the licensee by 29.11.2020
- D. On 27.11.2020 the licensee responded to EPA (DOC20/981015)
- E. The Licensee requested that LDP 2 Dust Monitoring location, described as MS2, be relocated.
- F. The licensee stated the reason for this change is that current extraction will likely cease on 30.06.2021.
- G. The timing for when the relocation of MS2 will occur is described in a note under condition P1.1.
- H. M Collins & Sons Holdings Pty Ltd, the licensee, currently have Consent Modification 5 before the Department of Planning, Industry and Environment.
- I. Modification 5 seeks to extend operations until 30.06.2023.
- J. If modification 5 is approved activities at the site would continue until 30.06.2023 and not the currently approved date of 30.06.2021.
- K. To achieve rehabilitation requirements outlined in the Planning Approval Landscape Management Plan 2018, works will be undertaken very close to MS2.
- L. Dust readings taken at MS2 will be distorted by activities being undertaken in very close proximity to the monitor.

Licence Variation



- M. The new location is within Lot 22 DP 833317 on the eastern side of Spring Farm. The new location will be closer to two neighbouring properties.
- N. It is considered the new location will fit for purpose to determine dust emissions from the site.
- O. The table in condition 'L2 Waste' referred to the 'Protection of the Environment Operations (Waste) Regulation 2005'.
- P. The 2005 Waste Regulation was updated in 2014.
- Q. The table has been updated to reflect the new 'Protection of the Environment Operations (Waste) Regulation 2014'.
- R. Condition 'O3 Dust' includes O3.1 and O3.2. O3.2 is duplicative of the requirements in O3.1 and has been deleted.
- S. Condition 'L5.1 Potentially offensive odour' is read in conjunction with the Note below. L5.1 has been amended to reflect the requirements of S129 of the POEO Act (1997).
- T. A draft copy of this notice was provided to the licensee for review and comment. The EPA has considered the comments made as we have determined this notice.

VARIATION OF LICENCE NO. 4093

1. By this notice the EPA varies licence No. 4093. The attached licence document contains all variations that are made to the licence by this notice.
2. The following variations have been made to the licence:
 - LDP 2 Dust Monitoring Point 'MS2' location description has been changed.
 - Waste table under condition L2 updated
 - Condition O3.2 deleted
 - L5.1 has been amended.
 - A note has been added under table P1.1

William Dove

09.12.2020

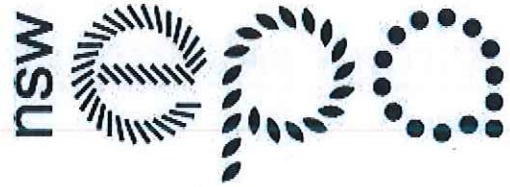
William Dove

Unit Head Regulation

Metropolitan South Branch

(by Delegation)

Licence Variation



INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (<http://www.epa.nsw.gov.au/prpoeo/index.htm>) in accordance with section 308 of the Act.

Appeals against this decision

- You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

When this notice begins to operate

- The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.
- If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

Environment Protection Licence

Licence - 4093

Licence Details

Number:	4093
Anniversary Date:	26-August

Licensee

M COLLINS & SONS HOLDINGS PTY LTD

PO BOX 378

NARELLAN NSW 2567

Premises

SPRING FARM

214 MACARTHUR ROAD

SPRING FARM NSW 2570

Scheduled Activity

Crushing, grinding or separating

Extractive activities

Fee Based Activity

Crushing, grinding or separating

Land-based extractive activity

Scale

> 100000-500000 T annual processing capacity

> 100000-500000 T annual capacity to extract, process or store

Region

Metropolitan South Branch

4 Parramatta Square, 12 Darcy Street

PARRAMATTA NSW 2150

Phone: (02) 9995 5000

Fax: (02) 9995 6900

Locked Bag 5022

PARRAMATTA NSW 2124

Environment Protection Licence

Licence - 4093



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Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

M COLLINS & SONS HOLDINGS PTY LTD
PO BOX 378
NARELLAN NSW 2567

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
SPRING FARM
214 MACARTHUR ROAD
SPRING FARM
NSW 2570
LOT 1 DP 587631, LOT 32 DP 635271, LOT 22 DP 833317

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

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2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust Monitoring		Dust deposition gauge labelled as MS1 as labelled Environmental Monitoring Locations Plan - Spring Farm Water and Dust Monitoring Stations 9 August 2013 [Trim DOC13/42029].
2	Dust Monitoring		Dust deposition gauge labelled as MS2 on plan 'M Collins & Sons Holdings Pty Ltd Licence 4093 Map Review Proposal' provided to EPA by email 27.11.2020 (DOC20/981015)
3	Dust Monitoring		Dust deposition gauge labelled as MS3 as labelled Environmental Monitoring Locations Plan - Spring Farm Water and Dust Monitoring Stations 9 August 2013 [Trim DOC13/42029].

P1.2 NOTE: Due to Christmas and New Year Public holidays, and the logistics of relocating MS2, it is proposed to relocate MS2 to the new location described in this notice at the end of January 2021 Monthly Monitoring Period, or such other time as agreed to in writing by the EPA.

3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Waste

L2.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to

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that waste contained in the column titled "Other Limits" in the table below.
This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under 'Part 9 Exemptions from provisions of Act and Regulation' of the Protection of the Environment Operations (Waste) Regulation 2014.	As specified in each particular resource recovery exemption	NA
NA	Waste	Any waste received on site that is below licensing thresholds in Schedule 1 of the POEO Act, as in force from time to time	-	NA

L3 Noise limits

- L3.1 Noise from the premises must not exceed an LA10 (15 minute) noise emission criterion of 55 dB(A), except as expressly provided by this licence.
- L3.2 Noise from the premises is to be measured or computed at any point within one metre of the boundary of any residential premises or other noise sensitive areas (such as schools, hospitals) in the vicinity of the premises to determine compliance with condition L3.1 5dB(A) must be added if the noise is tonal or impulsive in character

L4 Hours of operation

- L4.1 Activities covered by this licence on Lot 1 DP587631 must only be carried out between the hours of 0700 and 1700 Monday to Friday, and 0700 and 1300 Saturday, and at no time on Sundays and Public holidays.
- L4.2 Activities covered by this licence on Lot 22 DP833317 and Lot 32 DP635271 must only be carried out between the hours of 0700 and 1700 Monday to Friday, and 0800 and 1300 Saturday, and at no time on Sundays and Public holidays.
- L4.3 This condition does not apply to the delivery of material outside the hours of operation permitted by condition L4.1 and L4.2, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.

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L5 Potentially offensive odour

L5.1 The licensee must not cause or permit the emission of offensive odour beyond the premises boundary

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;
- b) kept for at least 4 years after the monitoring or event to which they relate took place; and

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c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 Air Monitoring Requirements

POINT 1,2,3

Pollutant	Units of measure	Frequency	Sampling Method
Insoluble solids	grams per square metre per month	Monthly	AM-19

M2.2 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M3 Testing methods - concentration limits

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

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M4 Recording of pollution complaints

- M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M4.2 The record must include details of the following:
- a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- 1. a Statement of Compliance,
 - 2. a Monitoring and Complaints Summary,
 - 3. a Statement of Compliance - Licence Conditions,
 - 4. a Statement of Compliance - Load based Fee,
 - 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 - 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 - 7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual

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Return is due.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:

- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
- b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

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R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

7 General Conditions

G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Other general conditions

G2.1 Completed Programs

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Program	Description	Completed Date
PRP 1 - Noise Mitigation Measures	Noise mitigation measures installation. To reduce noise emissions from the sand washery at the premises.	15-March-2008
PRP 2 - Control of Dust Emissions	Control of dust emissions. Dust management plan for the premises.	15-March-2008
PRP 3 - Air Monitoring Program	Undertake Total Suspended Particles and PM10 Monitoring Investigation Program for operations at Spring Farm.	14-May-2014

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Bernie Weir

Environment Protection Authority

(By Delegation)

Date of this edition: 08-January-2001

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End Notes

- 1 Licence varied by notice 1016200, issued on 09-May-2003, which came into effect on 03-Jun-2003.
- 2 Licence varied by notice 1047682, issued on 12-Jul-2005, which came into effect on 06-Aug-2005.
- 3 Licence varied by notice 1058707, issued on 18-Apr-2006, which came into effect on 18-Apr-2006.
- 4 Licence varied by notice 1067861, issued on 20-Dec-2006, which came into effect on 20-Dec-2006.
- 5 Licence varied by notice 1081325, issued on 07-Jan-2008, which came into effect on 07-Jan-2008.
- 6 Licence varied by Change to schedule 1, issued on 08-May-2008, which came into effect on 08-May-2008.
- 7 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 8 Licence varied by notice 1096062, issued on 20-Jan-2009, which came into effect on 20-Jan-2009.
- 9 Licence varied by notice 1103855, issued on 28-Jul-2009, which came into effect on 28-Jul-2009.
- 10 Licence varied by change to DECCW region, issued on 20-Aug-2009, which came into effect on 20-Aug-2009.
- 11 Licence varied by notice 1107936, issued on 20-Oct-2009, which came into effect on 20-Oct-2009.
- 12 Licence varied by correction to premise st name and number, issued on 13-Dec-2010, which came into effect on 13-Dec-2010.
- 13 Licence varied by notice 1124885, issued on 05-Apr-2011, which came into effect on 05-Apr-2011.
- 14 Licence varied by notice 1504257 issued on 20-Feb-2012
- 15 Licence varied by notice 1506975 issued on 08-Aug-2012
- 16 Licence varied by notice 1511248 issued on 13-Aug-2013
- 17 Licence varied by notice 1516264 issued on 20-Aug-2013
- 18 Licence varied by notice 1517225 issued on 19-Sep-2013
- 19 Licence varied by notice 1522816 issued on 18-Jun-2014

Appendix 3 Consultation with EPA

Mart Rampe

From: Emma Collins <ecollins@mcollins.com.au>
Sent: Thursday, 22 July 2021 1:44 PM
To: Chris Kelly - Wollongong
Cc: Matt Collins
Subject: Collins Spring Farm Quarry Air Quality Management Plan revision 2021
Attachments: Air Quality Management Plan 2021.pdf

Good Afternoon Chris,

M.Collins & Sons Holdings Pty Ltd is in the process of revising the Springfarm Quarry Management Plans. As part of this process we would like to extend the opportunity for you to review and provide feedback if necessary.

Attached is Air Quality Monitoring Plan for your perusal.

Please feel free to contact either Matt Collins or myself if you wish to discuss or organise a time to come to site.

Many Thanks,

Regards,

Emma Collins



COLLINS GROUP

*1/49 Smeaton Grange Road,
Smeaton Grange NSW 2567*

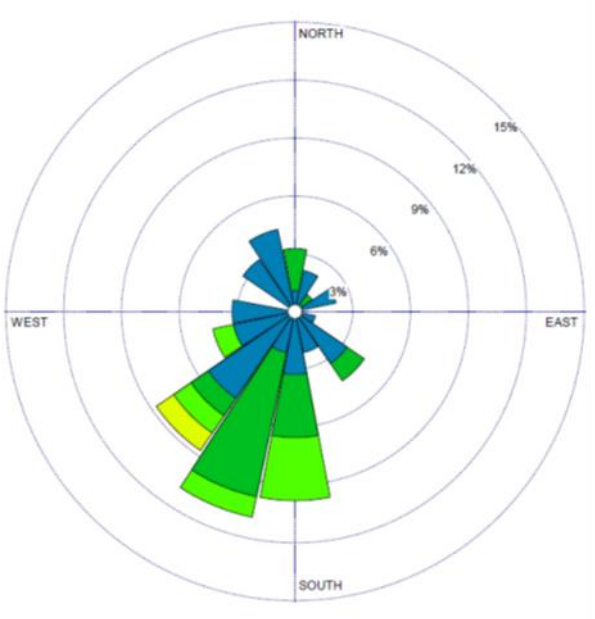
Mobile: 0409 869 094

Email: ecollins@mcollins.com.au

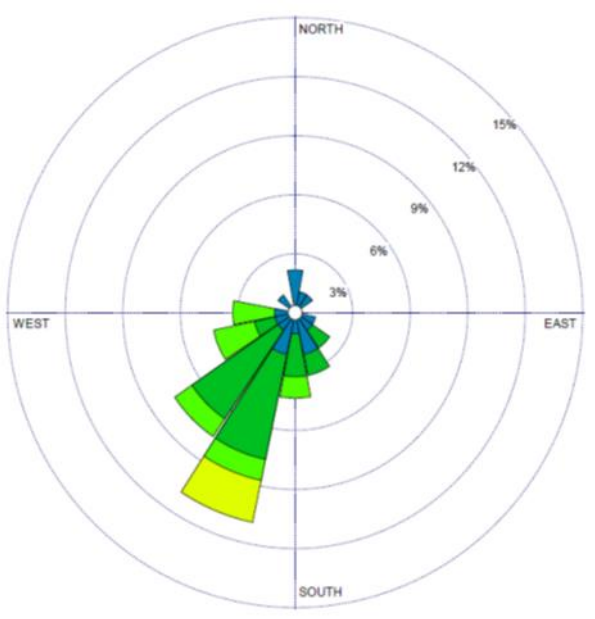
Landline: (02) 9774 1544

Web: www.mcollins.com.au

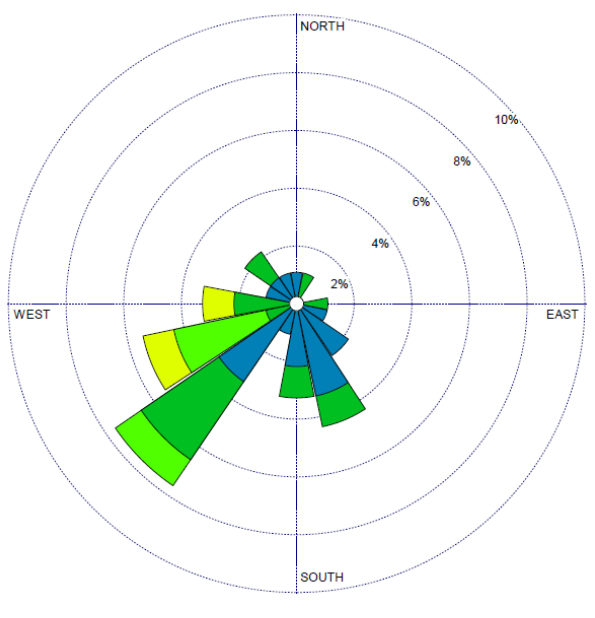
Appendix 4 Wind rose diagrams for Camden Airport



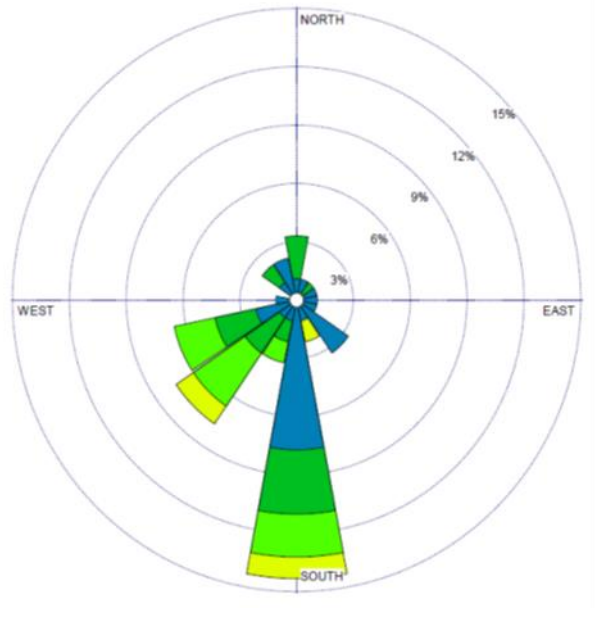
Summer



Autumn

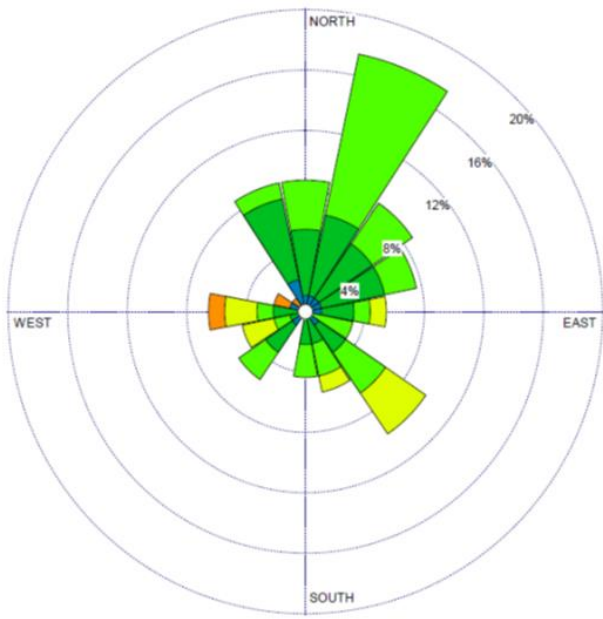


Winter

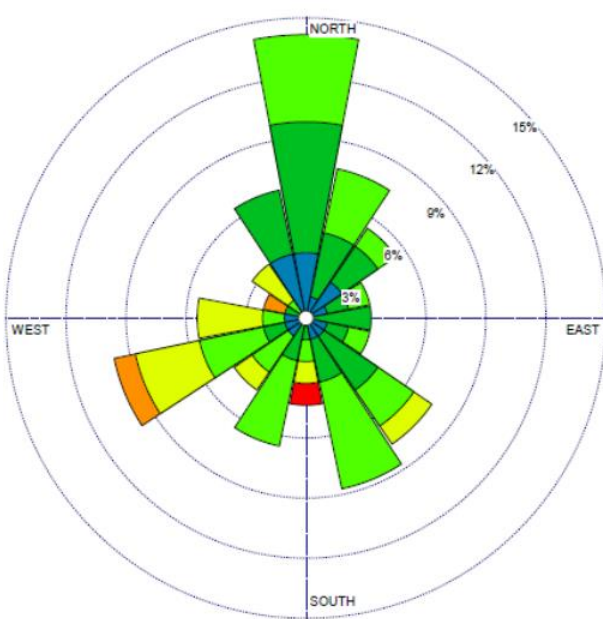


Spring

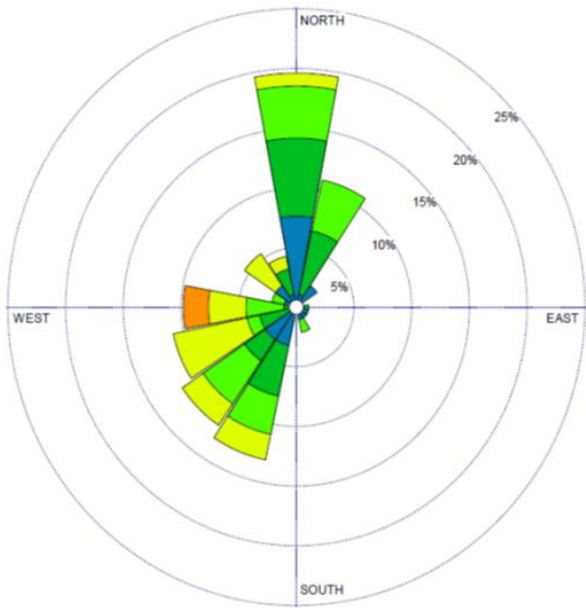
Wind Roses (Morning)



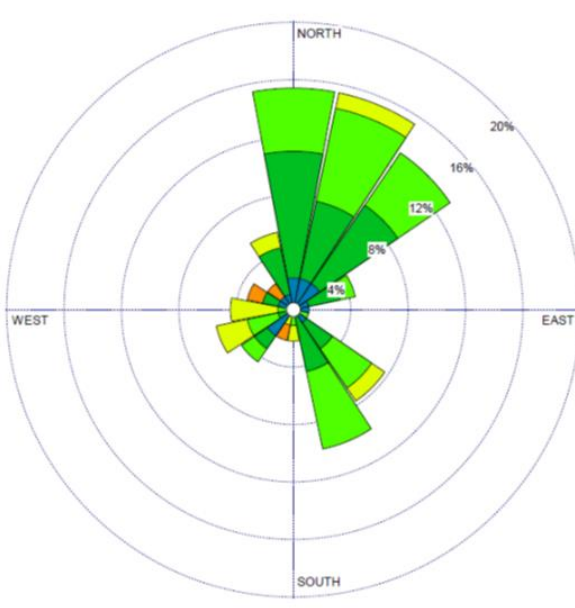
Summer



Autumn



Winter



Spring

Wind Roses (Afternoon)

Appendix 5 Post Approval Compliance Reporting and Auditable Items Table

Compliance Reporting Post Approval and Auditable Items				
Item Reference	Compliance Requirement	Phase of the Development	Monitoring Methodology	Evidence & Comments
Notice of Modification 5	Update to Air Quality Monitoring Condition 8 schedule 3	Operation	Air Quality Management Plan Long Term Criteria Pm10 table updated to 25ug/m3	External Monthly Air Monitoring by Harvest Scientific Voluntary PM10, TSP Testing twice annually
Notice of Modification 4	Compliance with EIS SEE (MOD 1) EA (MOD 3) EA (MOD 4) Statement of commitments	Operation		
Notice of Modification 4	Implement Air Quality Monitoring Program	Operation	Air Quality Management Plan	External Monthly Air Monitoring by Harvest Scientific Voluntary PM10, TSP Testing twice annually
Notice of Modification 4	Implement Water Management Plan	Operation	• Water Management Plan • Site Water Balance; • Erosion and Sediment Control Plan; • Groundwater Monitoring Program; and, • Flood Emergency Procedures Plan	Daily Visual Inspection by EMR Monthly operational report Form 30 Collins IBMS
Notice of Modification 4	Implement Landscape Management Plan	Operation	Landscape Management Plan (including rehabilitation plan)	Bowanz Annual Bush Regeneration and Ecological Restoration Report Monthly operational report Form 30 Collins EMS
Notice of Modification 4	Implement Rehabilitation Management Plan	Operation	Landscape Management Plan (including rehabilitation plan)	Bowanz Annual Bush Regeneration and Ecological Restoration Report Monthly Visual inspection Daily & Monthly by EMR Monthly Operations Report

				Form 30 Collins EMS
Notice of Modification 4	Implement Waste Management Plan	Operation		Visual daily and monthly inspection by EMR Monthly Operations Report Form 30 Collins EMS
Notice of Modification 4	Implement Environmental Management Strategy	Operation	Environmental Management Plan	Collins EMS operational controls including ECPS and FOPS Collins IBMS and EMS EMP 2018 Approved plan including controls noted above.
Modification 3 16a	Stockpiles - Hydramulch stockpiles where retained for a period greater than 3 months	Operation	Environmental Management Plan including Water Management Plan (Erosion and sedimentation control) and Landscape Management Plan	Visual Inspection Daily and monthly EMR Monthly Operations Report Form 30 Collins EMS
Modification 2	Extraction Area - Not open, extract or excavate greater than 2ha at once	Operation	Environmental Management Plan	Monthly Operations Report Form 30 Collins EMS
	Eastern Bund Wall - 7 meter height earthen bund wall to west of working extraction area	Operation	Environmental Management Plan	Monthly Operations Report Form 30 Collins EMS
	Noise - Not exceed noise assessment criteria	Operation	Environmental Management Plan	Koikis Acoustic Study 2017 Daily Visual Inspection by EMR Incident Report or Complaint form or register
	Air Quality - TSP Annual not exceed 90ug/m3 and PM10 Matter not exceed 25ug/m3 annually	Operation	Air Quality Management Plan AM15 and AS2724.3-1984	External Monthly Air Monitoring by Harvest Scientific

			AM18 and AS3580.9.6-1990 Investigate following legitimate Dust Compliant	
	Air Quality - PM10 not exceed 50ug/m3 24 hour period	Operation	Air Quality Management Plan AM18 and AS3580.9.6-1990 Investigate following legitimate Dust Compliant Investigate following legitimate Dust Compliant	Voluntary PM10, TSP Testing twice annually
	Air Quality – Deposited Dust not exceed a maximum deposited increase 2 g/m2 per month or maximum total deposited dust level 4 g/m2 month	Operation	Air Quality Management Plan AM18 and AS3580.9.6-1990 Investigate following legitimate Dust Compliant	External Monthly Air Monitoring by Harvest Scientific
	Discharge - No discharge from Site	Operation	Environmental Management Plan including Water Management Plan Emergency preparedness plans	Visual inspection Daily by EMR Monthly Operational Report Form 30 Collins EMS Emergency preparedness plans – accident, incident form and register
	Visual - Establish & maintain perimeter visual plantings to minimise visual impact		Landscape Management Plan	Bowanz Annual Bush Regeneration and Ecological Restoration Report
	Incident Reporting- Reporting within 7 days to the Department and agencies of any exceedance	Operation	Environmental Management Plan	Collins EMS Management Procedure MP37

				Accident Incident Reporting, Form and Register
	Annual Reporting - Submit AEMR annually BY 31 ST March	Operation	Environmental Management Plan	Collins Environmental Planner
	Independent Environmental Audit – every 3 years	Operation	Environmental Management Plan	Collins Environmental Planner
	Access to Information – Ensure approved management plans, AEMR and monitoring results are on the website	Operation	Collins EMS	Collins Environmental Planner
Original Consent 1	Open extraction area must not exceeding 2Ha at any one time	Operation	Environmental Management Plan	Monthly Operations Report Form 30 Collins EMS
	Dust - Regular watering, Automatic sprinklers on stockpiles, grass stockpiles where such are to be retained for a long period of time	Operation	Environmental Management Plan	Daily and Monthly Visual Inspection by EMR Monthly Operations Report Form 30 Collins EMS Monthly Air Monitoring Reports Harvest Scientific
	Noise - Not exceed LA (10) 15 minute interval noise emission criteria of 55dB (A) at the nearest dwelling	Operation	Environmental Management Plan	Daily and Monthly Visual Inspection by EMR Monthly Operations Report Form 30 Collins EMS Incident Report or Complaint form or register
	Buffer Zone - No excavation 30 meters from any public road or public reserve boundary. 12 meters from any other boundary, Buffer Zone - No building work, parking, plant or stockpile 15 meters from any public boundary. 6 metres from any other boundary.	Operation	Environmental Management Plan	Monthly Operations Report Form 30 Collins EMS
	Imported Fill - Imported fill must be pre approved by Camden council	Operation	Environmental Management Plan	Facility Operating Procedure – Importation of Material

	Tailings - dispersed according to council requirements	Operation	Environmental Management Plan	Collins EMS ECPs and FOPS
	Access Roads - All access roads kept watered to minimise dust	Operation	Environmental Management Plan Traffic Management Plan	Daily and Monthly Visual Inspection by EMR Monthly Operations Report Form 30 Collins EMS Monthly Air Monitoring Reports Harvest Scientific Driver and Contractor Site Induction
	Operation Hours M-F 7am-5pm, Saturday 8-1pm	Operation	Environmental Management Plan	Management by EMR and Quarry Manager
	Annual contribution to Camden Council for the maintenance of Macarthur road	Operation	Collins Statement of Commitments	Annual Environmental Planner
Statement of Commitments	Traffic - Laden Truck Movements not exceed 36 per day average or maximum of 80 any day	Operation	Collins Statement of Commitments	Collins EMS Weekly Truck Movement Report
	Traffic - Limit impact of trucks on public roads	Operation	Collins Statement of Commitments	Collins Daily Allocations Manager Navman Satellite Tracking
	Dust – Voluntary Air Monitoring PM10 & TSP Twice annually	Operation	Air Quality Management Plan	Voluntary PM10, TSP Testing twice annually
EPL 4093	Dust - 3 dust monitoring locations for monthly testing . MS1, MS2, MS3. Monitoring and recording of Dust at MS1, MS2,MS3 Grams per sqm per month	Operation	Air Quality Management Plan	External Monthly Air Monitoring by Harvest Scientific Voluntary PM10, TSP Testing twice annually
	Waste - waste that meets 'recovery exemption' clause 51A of Protection of the Environmental (Waste) Act 2005 onlky allowable imported material for processing	Operation	Waste Management Plan	Visual daily and monthly inspection by EMR Monthly Operations Report Form 30 Collins EMS
	Noise - LA (10) 15 minute interval noise emission criteria of	Operation	Environmental Management Plan	Daily and Monthly Visual Inspection by EMR

	55dB (A) Measured within one meter from boundary			Monthly Operations Report Form 30 Collins EMS Incident Report or Complaint form or register
	Hours of Operation - Lot 1 7am-5PM m-f and 7am-1pm Saturday Lot 22, 32 7am and 5pm m-f and 8am-1pm Saturday	Operation	Environmental Management Plan	Management by EMR and Quarry Manager
	Annual Return Submission due October annually	Operation	Environmental Management Plan	Annual Environmental Planner
	Dust – Voluntary Monitoring of PM10 and TSP TWICE Annually - April - May period and Sept-Oct period	Operation	Air Quality Management Plan	Voluntary PM10, TSP Testing twice annually
WAL Licences	Aquifer 20UNITS Complete and maintain logbook	Operation	Environmental Management Plan Water Management Plan	Monthly Operations Report Form 30 Collins EMS
	98 units Complete and maintain logbook	Operation	Water Management Plan	Monthly Operations Report Form 30 Collins EMS
	Surface Water 230 UNITS complete and maintain logbook	Operation	Water Management Plan	Monthly Operations Report Form 30 Collins EMS
	Surface Water 41 UNITS complete and maintain logbook	Operation	Water Management Plan	Monthly Operations Report Form 30 Collins EMS
	Groundwater Complete & maintain groundwater extraction log book.	Operation	Water Management Plan	Monthly Groundwater Monitoring by Harvest Scientific pH, EC, depth to groundwater (m). Field pH and EC meters, water sampling device, tape measure