

DONALDSON COAL

PTY LTD

ABN: 87 073 088 945

Annual Environmental Management Report

for the

Donaldson Coal Mine

1 November 2014 to 31 October 2015

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Name of mine Donaldson Coal Mine

Mining Titles/Leases ML 1461

MOP Commencement Date 16/05/14 MOP Completion date 16/05/21 AEMR Commencement Date 01/11/14 AEMR Completion date 31/10/15

Name of leaseholder Donaldson Coal Company Pty Ltd

Name of mine operator (if different) NA

Reporting Officer Philip Brown

Title Environment and Community Manager

Signature

Date 27/01/2016

Prepared by: Donaldson Coal

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FOREWORD

Donaldson Coal Pty Ltd. (Donaldson) has prepared this report to fulfil the reporting requirements of the Donaldson Coal Mine combined Development Consent DA 98/01173 and 118/698/22, Condition 114.

This report was also completed to satisfy the annual reporting requirements of the NSW Department of Trade and Investment, Division of Resources and Energy (DTI DRE) and as such was prepared in accordance with the Environmental Management Guidelines for Industry – Guidelines to the Mining, Rehabilitation and Environmental Management Process (NSW DPI, 2006).

This report provides a detailed review of the site environmental management over the annual reporting period 1st November 2014 to 31st October 2015.

DONALDSON COAL PTY LTD

Donaldson Coal Mine

2014/2015 ANNUAL ENVIRONMENTAL MANAGEMENT REPORT

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1. INTRODUCTION

1.1 DEVELOPMENT OVERVIEW

The Donaldson Coal Mine (the mine) is an open cut coal mining operation located ~23km from the Port of Newcastle, north of John Renshaw Drive and west of Weakleys Drive. The mining lease is contained within the Cessnock and Maitland Local Government Areas. An aerial photograph showing the location of the mine in a regional context is attached as **Appendix 1** of this report.

The mine commenced operation on 25th January 2001, following approval by the then Minister of Urban Affairs and Planning (now known as the Department of Planning and Environment) in 1999. Mining was undertaken by way of truck and shovel mining techniques. During the first 12 months of the operation, the bulk of the overburden material was placed in an out-of-pit emplacement, 1.5km south west of the active pit. This was undertaken to allow sufficient opening up of the pit to expose the various coal seams. Since March 2002, the majority of the overburden material has been placed in-pit, backfilling the void once the coal has been mined out. Reshaping of the backfill to a landform commensurate to the existing topography commenced in September 2002.

The first load of coal was railed from the mine on the 26th March 2001. Up to 31st October 2013, approximately 13,002,548 tonnes of coal has been railed to both Hunter Valley power stations and international customers, through the Port of Newcastle. Mining was conducted under long term contract with Cooks Construction Pty Ltd until Donaldson became the Operator on the 2nd February, 2009.

Mining operations at the mine were completed in April 2013. Progressive rehabilitation activities have been undertaken throughout the operation of the mine and a final rehabilitation project commenced in May 2013. This involved removal of roads, excavation of contaminated material, decommissioning of the fuel storage area, buildings and other surface infrastructure, reshaping surfaces to the final landform, topsoil spreading, drainage line construction and seeding with local tree and shrub species. The rehabilitation works at the mine were completed in March 2014.

All mining and associated operations were undertaken in accordance with the Development Consent, Environment Protection Licence and other statutory instruments as issued by the various government agencies.

1.2 CONSENTS, LEASE AND LICENCES

Table 1 provides a current list of statutory instruments in effect, including the date of grant of all leases, subleases, consents, approvals and licenses. It also includes information relating to the current Mining Operations Plan (MOP). Details of amendments to the MOP are described below.

Table 1: Abel Underground Coal Mine – Approvals, Leases and Licences

Approval/Lease/Licence	Issue / Approval Date	Expiry Date	Details / Comments
Mining Lease (No. 1461)	22/12/1999	22/12/2020	A copy of the mining lease is available for review at the Donaldson Coal office.
Mining Operations Plan	16/05/2014	16/05/2021	Amended MOP as approved by the DTI DRE.
Development Consent (combined DA 98/01173 and 118/698/22)	14/10/1999 26/08/2005 24/06/2011	March 2011 31/12/13	 Certain conditions of the consent will continue to operate after the consent for mining operations has lapsed. Variation to Development consent for modification to mining area. Variation to Development Consent for extension of time for mining to be completed.
Environment Protection Licence (No. 11080).	13/09/2000	Not Applicable	Current licence version date 02/12/2011.
Bore Licence (No. 20BL168123)	18/04/14	17/04/19	Issued to cover groundwater extraction as a result of the active mining area.

Amendment to the Mining Operations Plan (MOP)

Development Consent and a mining lease have been granted to Donaldson Coal Pty Ltd to mine coal for a period of eleven (11) years. The initial Mining Operations Plan (MOP) covered a period of twelve (12) months of mining activity and was submitted to DTI DRE in September 2000 to enable operations to commence in January 2001.

An amended MOP and associated plans were submitted to the DTI DRE to cover the period January 2002 through to June 2006. It was also the point that the Hunter Water Corporation pipelines required re-location across the backfill.

A further amended MOP and associated plans were submitted to the DTI DRE for the period June 2006 to May 2011.

A letter was forwarded to the DTI DRE to further amend the MOP to include the facilities to be constructed for the proposed Abel Underground Mine.

A further MOP was submitted as the MOP for the site with operations planned to close by December 2012.

A further MOP was submitted as the as the MOP covering coal mining for the site operations continuing until April 2013

A MOP has been submitted to DTI DRE in January 2014 to cover the final rehabilitation project at Donaldson Coal mine.

A MOP was submitted on the 12 May 2014 and approved on the 16^{th} May, 2014 for the period 16 May 2014 – 16 May 2021.

1.3 MINE CONTACTS

Donaldson Coal Pty Ltd owns the mining operation and is the holder of the current mining lease. Donaldson is also the mining operator. **Table 2** outlines the site personnel responsible for the various aspects of the operation.

Table 2: Site Personnel

Position	Site Personnel
Operations Manager, Donaldson Coal	Mr Aaron McGuigan
Environment and Community Manager, Donaldson Coal	Mr Phillip Brown

The following contacts have been provided for the Donaldson Coal General Manager, Mr Aaron McGuigan, and the Environment and Community Manager, Mr Phillip Brown.

Table 3: Contact Details

Donaldson Coal Mine 1132 John Renshaw Drive BLACKHILL NSW 2322		PO Box 2275 GREEHILLS NSW 2323
Phone: (02) 4015 1100		Community Hotline (24hrs): 1800 111 271
Fax:	(02) 4015 1159	
e-mail:	donaldson@doncoal.com.au	
Internet:	www.doncoal.com.au	

1.4 ACTION REQUIRED AT PREVIOUS AEMR REVIEW

The mine was inspected by DTI DRE representative on the 4th March 2015 and the Department of Planning and Environment (DPE) on the 17th November 2015. During these visits the 2013/14 AEMR was reviewed. **Table 4** outlines the required actions that were identified by DTI DRE in this review and Donaldson Coal's response to these actions.

Table 4: Action Required at Previous AEMR Review

No.	Issue/Observation	Action	Due	Comment
1	The legend in the plan 'Donaldson Open Cut Mine – AEMR 2014' has insufficient detail.		2015 AEMR	Refer to updated plan attached to this AEMR. Note there is only one plan as no rehabilitation was undertaken during the AEMR period and no rehabilitation is planned for the ensuign 12 monh period.
2	Prevalence of inkweed (Phytolacca octandra) along access tracks within rehabilitated areas.		Ongoing	Refer to Section 3.8

The DPE provided the following observations and actions.

The Department recommends that a review of the ongoing conditions of the consent be undertaken by Donaldson Coal and that any proposed cancellation of the requirements of the conditions be formally submitted for approval by the Department to ensure compliance is maintained with all conditions.

The Department further requests that the recommendations of the audit, and an update on the implementation of those recommendations, are reported in the next Annual Review.

Donaldson Coal is currently reviewing the Conditions of Consent which relate to the open cut operations with a view to making a submission to DPE to modify the Consent.

An independent Environmental Audit was undertaken in March 2015 as per conditions of Consent. The following recommendations were made with an update included:

Table 5: 2015 Independent Audit Recommendations and Status Update

Page 1 of 2

Condition No.	Development Consent Condition	Comment	Update
63(iv)	Biological Monitoring The Applicant shall prepare and implement a detailed monitoring program for groundwater and surface water (iv) monitoring of macro-invertebrates and vegetation in accordance with protocols developed for the Hunter SIGNAL biological assessment criteria, with an assessment of inflows to the wetlands	The biological monitoring will continue in accordance with Development Consent condition 63(iv) "for a period of at least five years after the completion of mining, or other such period as determined by the Director- General."	Monitoring to be undertaken for period of 5 years from completion of mining (i.e. until April 2018).
69	Tetratheca juncea Management Plan The Plan shall be consistent with the Flora and Fauna Management Plan and include measures for fire management.	The ongoing control measures employed at the Donaldson Coal Mine site ensure a high level of conservation for the <i>Tetratheca juncea</i> .	The <i>Tetratheca juncea</i> area is contained within the Bushland Conservation Area (BCA). Refer to comment below.
72(ii)	Bushland Conservation Area Management (ii) retain management and ownership of the land for a minimum of 36 years from the commencement of construction, unless other arrangements are agreed in accordance with Condition 73; and (iii) prepare and implement a Management Plan for that area in consultation with OEH and to the satisfaction of the Director-General, during the period in which the Applicant is responsible for management.	Donaldson Coal Pty Ltd will retain management and ownership of the land for a minimum of 36 years from the commencement of construction, unless other arrangements are agreed in accordance with Development Consent condition 73.	The BCA is currently being managed in accordance with the BCA Management plan and will be maintained for the period as per Condition 73 (i.e. until January 2037 or as agreed).

Table 5 (Cont'd): 2015 Independent Audit Recommendations and Status Update

Page 2 of 2

Condition	Development Consent Condition	Comment	Update
No. 78 and 78A	Rehabilitation The Flora and Fauna Management Plan shall also include a Rehabilitation Plan that details the measures to be undertaken to progressively rehabilitate disturbed areas of the mine to replicate the original vegetation cover that existed before mining occurred. The Applicant shall be responsible for the management and monitoring of the rehabilitated mine site until such time as the Director-General agrees that restoration has been successful.	The Rehabilitation Plan is included in the Mining Operations Plans (MOP) and amendments for the Donaldson Coal Mine. The current MOP is for May 2014 to May 2021. Recommendation: As the reporting on the Mining Operations Plan is required under the Mining Lease, the rehabilitation progress and monitoring will be reported to the DRE and it is recommended that approval be sought from DPE to submit this MOP report to DPE to satisfy this condition.	Currently the AEMRs are provided to both DRE and DPE and will continue to be provided.
114	ANNUAL ENVIRONMENTAL MANAGEMENT REPORT The Applicant shall prepare and submit an Annual Environmental Management Report (AEMR) throughout the life of the mine to the satisfaction of the Director-General. The AEMR shall review the performance of the mine against the Environmental Management Strategy and the Conditions of this Consent, and other licences and approvals relating to the mine.	The preparation of the Annual Environmental Management Report for the Donaldson Coal Mine will be required unless an exemption is obtained from the Director-General/Secretary of DPE. Recommendation: It should be considered that reporting on the rehabilitation progress, the biological monitoring and bushland conservation area could be achieved by submitting the expert consultant reports and placing the reports on the Donaldson Coal website.	This recommendation will be considered in 2016 with appropriate discussions held with DRE and DPE.

2. OPERATIONS DURING THE REPORTING PERIOD

2.1 LAND PREPARATION

The mine site is characterised by native woodland and forest communities. A detailed description is included in the Flora and Fauna Management Plan (Gunninah, 2000). Although previously disturbed by activities such as logging, deliberate bushfires and recreational pursuits (motorbikes, cycling and four wheel driving), careful treatment was planned to minimise disturbance and its impact in preparation for mining activities.

All works undertaken during the reporting period have been undertaken in accordance with the commitments made in the MOP.

Water management and sediment control structures are in place in accordance with the requirements of the Water Management Plan (Perrens Consultants, 2000) and the Erosion and Sediment Control Plan (Global Soil Systems, 2000).

Following the completion of mining operations at Donaldson Coal mine in April 2013 no further vegetation clearing or topsoil stripping occurred at the mine.

2.2 CONSTRUCTION

No construction activities were undertaken during the 2014/15 AEMR reporting period.

2.3 WASTE MANAGEMENT

The following section briefly outlines the waste management systems employed at the Mine. All waste is managed in accordance with the Donaldson Coal Waste Management Plan (Global Soil Systems, 2000b).

Sewerage Treatment and Disposal

Currently there are two (2) locations where sewerage is collected and managed. This includes the following areas:

- Giacci (coal haulage contractor) lunch room and bathhouse; and,
- Donaldson Administration facility.

Individual Bio-cycle units service both areas with the treated water being used to irrigate the gardens and lawn/bushland around the offices. The bio-cycle units are serviced quarterly in accordance with the service schedule recommended by the supplier. The use of the two units is approved by Cessnock Council and operated in accordance with their requirements.

Rubbish Disposal

A licensed contractor (JR Richards) collects all general rubbish and disposes of it off site at an approved waste facility. The licenced contractor also manages the recycling of other material off site including paper, cardboard, oil metal etc.

2.4 WATER MANAGEMENT

The following section details the water management activities carried out during the 2014/15 AEMR reporting period. It also includes a brief summary of the water balance records. Information on the water monitoring program and a summary of results is included in Sections 3.3, 3.4 and 3.5 of this report.

Water Storage Structures

A 400 ML mine water dam was constructed in 2004. This dam is used to store mine water from the pits and is reused for dust suppression.

The 18 ML dam was increased in storage to 40 ML in 2004. This is used for collection of run-off water from rehabilitated areas.

Sediment Control Structures

A number of drainage lines have been modified or constructed as part of the final rehabilitation project at the mine. This included the modification of drainage lines from the workshop hardstand area and the construction of new drainage lines on reshaped surfaces.

Water Balance

The Environment & Community Manager maintains a site water balance based on water consumed at the mine. It includes recording the amount of water that is available in various water holding structures around the mine. **Table 6** summaries the stored water. All water consumed on site for the 2014/15 AEMR reporting period was obtained from site supplies.

Table 6: Stored Water Summary

		Volumes Held (m³)#						
	Start of Reporting Period	At end of Reporting Period	Storage Capacity					
Dirty Water	18	18	18					
Controlled Discharge Water	140	136	400+					
Contaminated Water	N/A	N/A	N/A					

Source: Donaldson Coal Pty Ltd

2.5 HAZARDOUS MATERIAL MANAGEMENT

As the operator of the mine, Donaldson is principally responsible for the management of hazardous materials. Donaldson has the occasional need to use chemicals (herbicides). All hazardous materials are managed in accordance with the Donaldson Coal Site Safety Management System.

Chemicals

Donaldson keeps an up to date inventory of Material Data Safety Sheets (MSDS) for all chemical substances used on the site. Prior to a new substance being introduced on the site it has to be approved by the Statutory Mine Manager and is included in the site register.

In addition, copies of the MSDS are generally kept with the chemical when it is being used on site. Where this is not practical, copies are kept in the on-site chemical register.

2.6 OTHER INFRASTRUCTURE MANAGEMENT

General infrastructure works carried out at the mine during the 2014/15 AEMR reporting period include:

- Routine maintenance of the fence along John Renshaw Drive; and,
- Repairs undertaken to drains in rehabilitation areas.

All works were undertaken in accordance with the requirements of the approved MOP.

[#] This data assumes that there is no water stored in the pit, where in reality there is generally always an in pit sump established down dip. The sump is capable of storing some water without impacting on the mining operation.

3. ENVIRONMENTAL MANAGEMENT AND **PERFORMANCE**

METEOROLOGICAL MONITORING 3.1

Rainfall

Details the rainfall for the 2014/15 AEMR reporting period are presented in Table 7. Table 7 also includes a comparison between the historical monthly average rainfall from the Bureau of Meteorology site at East Maitland (site 061034 – operating from 1902 to 1 Mar 1994) and the rainfall recorded at the mine since January 2000.

A total of 1 111.4mm was recorded during the 2014/15 AEMR reporting period, higher than the corresponding 2013/14 AEMR period (902.1mm) and higher than the historical average (894mm).

Table 7: Monthly Rainfall Records

Period	Average Monthly Rainfall (mm)												
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Historical Average East Maitland	89	94	97	87	70	84	58	52	55	66	62	81	894
2000	61	32	279	146	45	24	27	31	33	47	106	32	863
2001	46	169	193	114	244	3.4	63	22	12	31	91	38	1026.4
2002	48	281	184	66.4	62.1	30	30	21	17.4	18.8	56.2	149.2	964.1
2003	6	90	22.2	77	135	13.2	43	27.4	0	63.2	137.6	39	653.6
2004	86	176.6	80	33.6	17.4	9.4	15.4	43.1	61.2	136	77.4	69.8	805.9
2005	64.4	95.8	127.8	57.4	61.8*	56.8	7.2	0.8	37.0	84.0	22.8	9.6	625.4
2006	29.8	47.4	63.6	4.6	7.8	43.8	42.6	49.2	162.4	25.4	37.8	35.6	550.0
2007	13.4	88.0	102.0	86.0	60.0	301	17.0	79.6	19.8	17.2	163.8	49.5	997.3
2008	153.4	154.3	46	237.6	2.2	122.9	30	28.5	195.3	62.2	73.3	62.6	1168.3
2009	11.3	97.7	136.5	157.2	125.7	75.7	32.1	1.8	29.2	59.8	51.4	62	840.4
2010	0	52.1	83.9	37.1	89.4	112.8	65.3	38.5	26.4	80.6	171.1	39.9*	797.1
2011	26.0	34.5	65.6	137.9	98.8	152.0	129.0	49.0	103.0	100.0	171.9	75.9	1143.6
2012	96.1	207.0	137.6	114.7	11.8	172.3	53.8	26.6	18.7	5.7	21.8	1.2	867.3
2013	1.0	100.0	64.2	65.8	59.8	63.8	71.8	9.6	21.8	27.0	261.8	2.6	1094
2014	15.6	108.3	112.8	99.3	44.3	31.4	24.6	104.0	42.4	55.0	38.4	133.4	809.5
2015	167	48	73.3	412	89.4	44.6	17.9	30.6	56.8	59			
Note: Results rele	evant to th	e 2014/15	AEMR repo	orting perio	d are in b	old.				•	-		

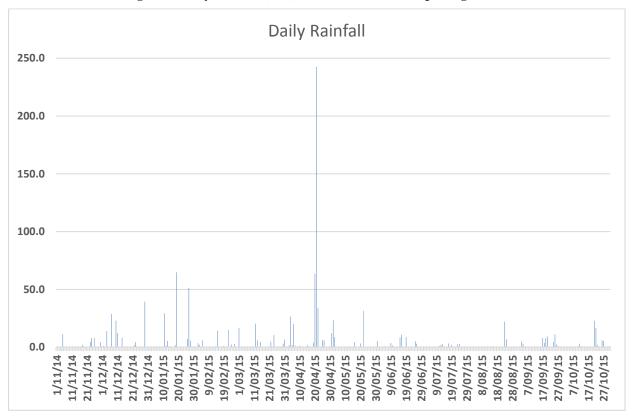


Figure 1: Daily Rainfall (mm) for 2014/15 AEMR Reporting Period

Wind Speed and Direction

Wind speed and direction data is presented in the form of wind rose charts. Wind rose charts for each season within the 2014/15 AEMR reporting period are included in **Appendix 3**. A wind rose chart for the entire 2014/15 AEMR reporting period is also included in **Appendix 3**.

3.2 AIR POLLUTION

There are two principle sources of air pollution from the Donaldson Coal Mine. The first is airborne dust that comes from the rehabilitation activities, measured as depositional dust and Total Suspended Particulates (TSP). The second source is from the combustion of diesel fuel, which is measured as PM_{10} particles.

Donaldson operates the following dust monitoring equipment:

- One High Volume Air Sampler (HVAS) measuring TSP;
- Two HVAS measuring PM₁₀;
- One continuous DustTrak monitors measuring PM₁₀; and,
- Ten Depositional Dust Gauges measuring insoluble solids.

The locations of dust monitoring equipment are outlined in **Appendix 1**. It is noted that measurements taken at any of these locations will include all background air pollution relevant to those locations, as well as any contribution occurring from the mine.

Environmental Management

The reviewed Donaldson Air Quality Management Plan (Holmes Air Sciences, 2007) details the range of measures employed by Donaldson to control airborne dust. These measures include:

- Maintenance of an adequate distance between the mine and neighbouring residents;
- Minimisation of disturbance of land to only what is required by mining activities;
- Minimisation of the distance travelled by hauling overburden the shortest distance possible;
- Utilisation of mine water for dust suppression on roads, stockpiles and work areas; and,
- Monitoring of real time weather conditions and alter or cease the offending operations when dust is becoming difficult to control.

Environmental Performance

No dust complaints were received during the 2014/15 AEMR reporting period.

A review of the dust monitoring data for the period suggests that there has been no significant change in the regional dust levels as a result of activities at the Donaldson Coal Mine compared to the previous reporting period. Seasonal variations are evident and in some cases high readings have been recorded on the DustTrak, HVAS and the Depositional Dust Gauges. These high events are related to activities adjacent to the monitoring site or regional effects (other than mining) including, but not limited to, non-mine related use of dirt roads, bushfires, regional dust storms and lawn mowing.

A summary of the air quality monitoring data for the 2014/15 AEMR reporting period is provided in **Tables 8** to **12** and **Figure 2**.

Depositional Dust Gauges

Results were recorded for 120 monthly samples at ten (10) dust gauges out of a possible total of 120. Results were generally obtained with acceptable levels of contamination from other sources, such as insects, bird droppings and vegetation. A summary of the results is presented in **Table 8**.

All gauges were in compliance with the Donaldson Air Quality Management Plan, with annual average insoluble solid results for each gauge below the criteria of $4g/m^2/month$. Results are generally similar to or slightly higher than the previous year's results and indicate no major increase in dust emissions.

Sample Site	No. Samples Required	No. samples collected and analysed	Maximum Insoluble Solids (g/m²/month)	Minimum Insoluble Solids (g/m²/month)	Annual Average Insoluble Solids (g/m²/month)
DG1	12	12	1.4	0.2	0.53
DG2	12	12	6.5	0.2	1.24
DG3	12	12	6.2	0.9	2.83
DG4	12	12	1.7	0.4	1.03
DG7	12	12	1.3	0.2	0.78
DG8	12	12	1.8	0.2	0.95
DG9	12	11 ¹	2.9	0.2	1.02
DG10	12	12	3.5	0.2	0.99
DG11	12	12	2.0	0.6	1.08
DG12	12	12	1.5	0.3	0.86

Table 8: Deposited Dust Monitoring Results 2014-2015

High Volume Air Samplers

This section outlines the results of the high volume air samplers located at Blackhill Primary School and the Beresfield Golf Course. Two sets of measurements have been performed during the reporting period, PM_{10} (particulate matter of diameter less than 10 μ m) and TSP (total suspended particulate matter). **Table 9** displays the data capture rate for the three high volume air sampler units during the period.

Table 9: High Volume Air Sampler Data Capture Rate

Monitoring Location	Data Capture Rate (%)
Blackhill Primary School (PM ₁₀)	100
Blackhill Primary School (TSP)	100
Beresfield Golf Course (PM ₁₀)	100

PM_{10}

The annual average PM_{10} at both monitoring sites was below the annual average maximum criteria of $30\mu g/m^3$. The annual average PM_{10} at the Beresfield Golf Course and at the Blackhill Primary School was lower when compared to the previous 2013/4 AEMR reporting period. PM_{10} results are displayed in **Table 10**.

During the 2014/15 AEMR reporting period, no PM_{10} measurements exceeded the 24-hour NEPM maximum criteria of $50\mu g/m^3$.

Sample Site	No Samples Required	No samples collected and analysed	Maximum PM ₁₀ Value (μg/m³)	Minimum PM ₁₀ Value (μg/m³)	Mean PM ₁₀ Value (μg/m³)
Blackhill Primary School	60	60	31	2.6	14.9
Beresfield Golf Course	60	60	43.2	5.5	17.6

Table 10: PM₁₀ Monitoring Results (High Volume Air Sampler) – 2014/2015

Total Suspended Particles

The annual average TSP result at Blackhill Primary School ($36.1\mu g/m^3$) was well below the annual average criteria of $90\mu g/m^3$. While there are no specified criteria for a 24-hr TSP maximum in the development consents or Environment Protection License, all TSP results were well below the US EPA short term good air quality criteria of $260\mu g/m^3$. TSP results are displayed in **Table 10**.

The results recorded during this reporting period are lower when compared to the corresponding measurements of the 2013/14 AEMR reporting period. This continues to indicate a low dust impact from activities at the mine. The ratio of the average PM₁₀ to TSP over the 2014/15 AEMR reporting period was 50%, which is a slightly higher ratio than the 2013/14 AEMR reporting period (47%) indicating a small increase in finer particulates in the Total Suspended Particulates, however, the ratio remains well below the 2012/2013 AEMR reporting period (57%).

Table 11: TSP Monitoring Results (High Volume Air Sampler) – 2014/2015

Sample Site	No Samples Required	No samples collected and analysed	Maximum TSP Value (μg/m³)	Minimum TSP Value (μg/m³)	Mean TSP Value (μg/m³)
Blackhill Primary School	60	60	74.6	7.1	29.6

DustTrak Monitors

Donaldson operates one continuous DustTrak air quality monitor at Blackhill Primary School.

Table 11 summarises the DustTrak monitoring data and the data capture rate. The measurement of PM_{10} by optical methods (such as the DustTrak monitors) is known to be particularly sensitive to rainfall or high humidity events. Monthly inspections of the DustTrak monitors and regular servicing of the instruments assist with reducing occasions when the measurements become unstable or drift from sensible values. It was considered appropriate to exclude non-valid data from the calculations of the highest 24-hour average PM_{10} , annual average PM_{10} and the lowest 24-hour average PM_{10} . Despite this, the valid data recovery rate upon which the PM_{10} averages are based are still substantial.

The annual air quality monitoring data provided to Donaldson by RCA Laboratories provides a graph of all the data collected. A chart of the DustTrak data for the 2014/15 AEMR reporting period is presented in **Figure 2**.

Table 12: DustTrak Results – 2014/2015

Site	Data collection	Data recovery (%)	Highest 24- hour average PM ₁₀	Annual average PM ₁₀	Lowest 24-hour average PM ₁₀
Blackhill Primary School	Continuous	85%	108.3	1.0	15.6

Note: Data in this table is for the annual reporting period 1 November 2014 to 31 October 2015 as reported by RCA Laboratories.

The results from DustTrak monitoring are similar to those obtained from the PM_{10} High Volume Air Sampler at the Blackhill Primary School. The annual average was below the maximum NEPM annual average criteria of $30 \mu g/m^3$ and, excepting for one result of $108.3\mu g/m^3$ on 05^{th} February 2015, all 24hr results were below the 24-hour NEPM maximum criteria of $50\mu g/m^3$. The high reading was as a consequence of lawn mowing around the unit.

Donaldson Coal Continuous PM10 Dust Monitoring **Black Hill Primary School** 1 November 2014 to 31 October 2015 120 110 24hr Average PM10 Dust Concentration (µg/m³) 100 90 80 70 60 50 40 30 20 10

Figure 2: Results of DustTrak Continuous Monitoring

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.3 EROSION AND SEDIMENT

The Erosion and Sediment Control Plan (Global Soil Systems, 2000) details the methods for erosion and sediment control at the site. The works were progressively constructed in conjunction with the advancing mining operations.

The following additional works have been completed at the Donaldson Mine during the 2014/15 AEMR reporting period:

- Ongoing minor works, including but not limited to, silt fencing construction and drain maintenance; and,
- Regular inspections of silt fencing are undertaken around the site, in particular following significant rainfall
 events.

Graded banks and waterways continued to be used to divert all water from the reshaped and revegetated areas prior to release from the site. Where possible, banks were built with a stable outlet. If this could not be achieved in the short term, or if necessary to drop the banks short, the downstream consequences were assessed and if unacceptable, an alternate design was adopted.

Environmental Management

The following control measures are employed at the mine in order to control erosion and sediment leaving site:

- Minimal land disturbance;
- Diversionary works to separate clean and sediment laden waters;
- Sediment control dams;
- The employment of sediment fencing and hay bales to provide interim protection; and,
- Revegetation as soon as is practical.

Environmental Performance

There were no complaints received by Donaldson relating to sediment control issues. Routine water quality monitoring undertaken at locations upstream and downstream of the mine is used to assess the performance of the sediment retention structures. Total Suspended Solids (TSS) is reported as an indicative measure of the effectiveness of sediment control. **Table 13** includes TSS data collected during the 2014/15 AEMR reporting period and is discussed in Section 3.4.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.4 SURFACE WATER POLLUTION

The Water Management Plan (Perrens, 2000) details the measures employed by Donaldson to ensure protection of surface water on and around the mine site. Surface water monitoring has been ongoing since June 2000. A plan showing the location of the water monitoring sites is provided in **Appendix 1**. Routine sampling and analysis is undertaken at six (6) permanent surface water stream monitoring locations, when in flow. Opportunistic samples are also taken from various other locations around the mine area as required (sediment dams and mine water storage dams). The surface stream water monitoring sites include:

- Four Mile Creek Upstream (EM1);
- Four Mile Creek Downstream (EM2);
- Scotch Dairy Creek Upstream (EM3);
- Scotch Dairy Creek Downstream (EM4);
- Weakley's Flat Creek Downstream (EM5); and,
- Weakley's Flat Creek Upstream (EM6).

Samples collected from the six existing stream sites are analysed for Electrical Conductivity (EC), pH, Total Dissolved Solids (TDS), Total Suspended Solids (TSS) and Sulfates (SO₄), on a monthly basis. A full suite analysis is also carried out on a quarterly basis and includes analysis for Electrical Conductivity (EC), pH, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Sulfates (SO₄), Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K), Chloride (Cl), Fluoride (Fl), Arsenic (As), Aluminium (Al), Barium (Ba), Cadmium (Cd), Cobalt (Co), Copper (Cu), Chromium (Cr), Iron (Fe), Manganese (Mn), Lead (Pb), Zinc (Zn), Total Alkalinity as CaCO₃, Turbidity, Nitrates and Phosphates (total).

In addition to the physical and chemical water quality work, biological monitoring (macroinvertebrates) has been ongoing as part of the environmental impact assessment. The program consists of:

- A pre-mining baseline survey;
- A construction survey; and,
- Twice yearly operational surveys.

Two monitoring surveys were completed during the 2014/15 AEMR reporting period, on the June 2015 and October 2015.

Environmental Management

The following control measures are employed at Donaldson in order to ensure an appropriate level of protection to surface water on and around the mine site:

- Minimal disturbance;
- Source separation in order to separate water of differing quality:
- Collection and containment of mine water for dust suppression; and,
- Grey water and sewerage is treated by bio-cycle technology.

Environmental Performance

There were no water-related complaints received during the 2014/15 AEMR reporting period.

Chemical and Physical Monitoring

A summary of three key parameters, required by the EPA Pollution Control Licence, for the reporting period as well as the pre-mining baseline is included in **Table 13**.

Mean pH values for all stream-monitoring locations as recorded on a monthly basis are generally comparable to the pre-mining pH levels. The average pH of all sites is within the recommended ANZECC Guideline (pH 6.5-9.0) for fresh and marine waters for the protection of aquatic ecosystems, apart from Scotch Dairy Creek Upstream and Downstream which are slightly below the lower guideline but consistent between upstream and downstream samples. The pre-mining pH levels for Scotch Dairy Creek Upstream and Downstream were also slightly below the ANZECC Guidelines (pH 6.5-9.0). As such, it appears that the activities of the mine in this reporting period have not affected the pH of the surrounding stream environments.

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The mean EC values were reasonably similar to the pre-mining values being slightly higher or lower at each site. At the Four Mile Creek and Scotch Dairy Creek sites the mean EC was higher at upstream sites than downstream sites. At Weakleys Flat Creek sites the mean EC was higher at the downstream site than the upstream site, however, the increase in mean EC between the sites is lower than it was in pre-mining records. These results suggest that the mine is having a negligible impact on the EC of surface waters in the surrounding area.

The annual mean TSS values at monitoring locations were generally similar to the respective pre-mining levels apart from substantially lower values at Scotch Dairy Creek Downstream. Both the average and highest TSS values, the highest being 26mg/L recorded at Weakleys Flat Creek Downstream, are below the standard TSS criteria of 50mg/L. These results suggest that the mine is having a negligible impact on the TSS of surface waters in the surrounding area.

Table 13: Summary of Surface Water Quality Monitoring Results – 2014/2015

Sample Site	No Samples Required	No samples collected and analysed	Highest Sample Value		Lowest Sample value			Mean Sample Value			
			pН	EC	TSS	pН	EC	TSS	pН	EC	TSS
Four Mile Ck Upstream	12	12	7.88	307	14	6.33	202	6	7.0	226.9	13
Pre-mining			7.44	522	180	6.70	265	32	7.06	276	90
Four Mile Ck Downstream	12	12	8	312	17	6.08	134.9	9	7.3	194.5	9.5
Pre-mining			7.73	265	32	6.40	120	2	7.15	175	8
Scotch Dairy Creek Upstream	7	7	7.5	268	14	5.08	224	6	5.8	246	9.5
Pre-mining			6.81	200	47	5.90	71	9	6.33	210	22
Scotch Dairy Creek Downstream	7	7	6.93	220.1	25	4.81	177.6	6	5.9	196	9
Pre-mining			6.80	270	1283	5.80	145	12	6.43	180	271
Weakleys Flat Ck Upstream	12	12	7.99	316	12	6.12	219	7	7	254	9
Pre-mining			7.49	310	3	6.60	200	1	7.15	249	2
Weakleys Flat Ck Downstream	5	5	6.95	442	26	5.97	193	10	6.5	319	13
Pre-mining			7.28	546	17	6.40	230	3	7.01	419	8
*Creeks not sampled	Creeks not sampled under no flow conditions										

Biological Monitoring

Assessment of stream fauna is used to assess areas of environmental stress through the diversity of the macroinvertebrate population and the presence of pollutant sensitive or pollutant tolerant species. Macroinvertebrate monitoring was undertaken in Autumn June 2015 and Spring (October 2015). Six sites are targeted on the three major tributaries traversing the mine site. **Table 14** and **Table 15** include the results.

The streams in the study area tended to show moderate diversity of fauna indicative of fair water quality. However all sites were populated by several pollutant sensitive families of invertebrates.

Site number	Number	Number of Taxa		IAL2	SIGNAL2 weighted		
	Autumn	Spring	Autumn	Spring	Autumn	Spring	
SDCU	19	13	3.58	3.69	3.77	3.85	
SDCD	14	10	4	4.00	4.36	4.67	
WFCU	10	14	4.1	4.36	4.14	4.24	
WFCD	14	16	4.07	3.88	4.14	4.26	
FMCU	12	8	3.42	3.38	3.63	4.22	
FMCD	20	19	3.95	4.74	4.18	4.82	

Table 14: Macroinvertebrate Monitoring Diversity and Signal Index - 2015

At each site a detailed field observation sheet was completed covering riparian (stream bank) vegetation, stream geomorphology, visual characteristics and odour. A Riparian Channel Environmental (RCE) ranking was calculated following the assessment which evaluates the condition of the:

- · Adjacent land,
- Banks,
- Channel & bed (includes in-stream vegetation and algae); and,
- Riparian vegetation.

The following **Table 15** shows the RCE inventory scores of each site. An RCE score greater than 40 indicates a stream considered to be in good condition with potential for higher biodiversity values. RCE Scores of 20-40 indicate a stream is in moderate condition and below 20 indicates that the stream is in very poor condition

Scotch Dairy Scotch Dairy Weakelys Flat Weakelys Flat Four mile creek Four mile creek Site Creek Creek Creek Creek downstream upstream upstream downstream upstream downstream RCE Score 41 43 43 41 42 44 Autumn RCE Score 40 39 40 42 42. 38 **Spring**

Table 15: RCE Rankings - 2015

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.5 GROUNDWATER POLLUTION

The Water Management Plan (Perrens, 2000) details the measures employed by Donaldson to ensure protection of groundwater on and around the mine site.

Groundwater monitoring has been ongoing since June 2000. The groundwater monitoring locations at the mine were reviewed by the (then) DEC (EPA) as part of the EPL license review. There are now seven (7) current monitoring sites, the locations of which are provided in **Appendix 1**.

Environmental Management

The groundwater piezometers are monitored to determine impacts on both Standing Water Levels (SWL) and groundwater quality. A regional site was included in the monitoring program, REG DPZ1. It is located in Avalon Estate approximately 1.2km to the north of the mine.

Samples collected from the seven (7) bores are analysed for Electrical Conductivity (EC), pH, Total Dissolved Solids (TDS), Total Suspended Solids (TSS) and Sulfates (SO₄), on a monthly basis. A full suite analysis is also carried out on a quarterly basis and includes analysis for Electrical Conductivity (EC), pH, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Sulfates (SO₄), Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K), Chloride

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(Cl), Fluoride (Fl), Arsenic (As), Aluminium (Al), Barium (Ba), Cadmium (Cd), Cobalt (Co), Copper (Cu), Chromium (Cr), Iron (Fe), Manganese (Mn), Lead (Pb), Zinc (Zn), Total Alkalinity as CaCO3 and Turbidity.

The standing water level of each of the monitoring wells is measured each month, as metres below ground level.

Environmental Performance

There were no groundwater-related complaints received by Donaldson during the reporting period. In addition, monthly water monitoring results were routinely reviewed to determine whether there were any changes as a result of activities at the mine.

A summary of the three key parameters required by the EPL (pH, EC and the Standing Water Level) for the 2014/15 AEMR reporting period as well as the pre-mining baseline is included in **Table 16**.

The average Standing Water Levels (SWLs) were very similar to levels recorded in 2013/2014 and were generally either lower than the baseline period or unchanged. Water levels within DPZ6 have recovered slightly during 2014/2015 since a previous significant reduction. It is noted that the SWL within bore DPZ6 has fluctuated throughout the life of the mining operations.

Mean pH values of samples for the 2014/15 AEMR reporting period are generally similar to available pre-mining levels, with the exception of DPZ8 where the mean pH value has remained significantly lower than pre-mining levels. Variability is evident between mean EC values of samples for the 2014/15 AEMR reporting period and the pre-mining levels, this is likely due to natural fluctuations in groundwater EC values due to varying inflow rates.

Overall, it appears that Donaldson has had a limited impact on water quality and levels of the surrounding off-site groundwater resources during the 2014/15 AEMR reporting period.

Sample Site	No Samples Required	No samples collected and analysed	Highest Sample Value		Lowest Sample value			Mean Sample Value			
			pН	EC	SWL*	pН	EC	SWL*	рН	EC	SWL*
REG DPZ-1	12	12	6.3	1910	20.8	5.14	1502	20.48	5.3	1676	20.61
Pre-mining			No pre-mining samples								
DPZ3	12	12	7.21	9130	11.29	5.28	331	10.32	6.2	1239.5	11.2
Pre-mining			6.96	11350	11.51	5.99	10200	12.05	6.59	10860	11.76
DPZ6	12	12	7.4	2500	35.82	6.45	2099	33.67	6.7	2285	34.1
Pre-mining						No pre	-mining s	amples			
DPZ8	11	11	4.2	2960	30.61	2.99	2100	30.41	3.55	2440	30.47
Pre-mining			5.66	1820	24.35	5.46	1690	24.35	5.56	1755	24.35
DPZ10	12	12	7.47	3510	13.75	6.6	2740	13.24	6.8	3110	13.47
Pre-mining			6.97	3760	12.40	6.48	3670	12.40	6.71	3611	12.40
DPZ13	12	12	7.45	6130	25	6.68	2540	23.34	7.1	4630.8	24.8
Pre-mining			7.22	13750	7.25	6.67	12200	7.01	6.87	12907	7.14
* Standing Water	Standing Water Level is recorded as metres (m) below the natural surface.										

Table 16: Summary of Groundwater Monitoring Results – 2014/2015

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.6 THREATENED FLORA

There was one species of threatened flora identified during the EIS, *Tetratheca Juncea* (Black-eyed Susan). As a result a Tetratheca Juncea Management Plan was developed by (Gunninah, 2000a). The aim of the plan is to provide a comprehensive program for the *Tetratheca Juncea* population in the south western portion of the mine site.

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A survey and identification report (Gunninah, 2000b) was completed, which located the boundaries of the population and defined the limit of the conservation precinct. Subsequent works during 2001 and 2002 has extended the boundary and up to an additional two hundred (200) plants have been found during routine monitoring and vegetation characterisation.

In addition, approximately four hundred (400) plants have been discovered during routine pre-clearing surveys and monitoring episodes. A large proportion of these plants fall outside of the active mine area, adding further conservation significance to the area(s) identified and managed by Donaldson as the Tetratheca Juncea Conservation Area (TJCA) (as discussed below).

In 2005, a design was developed for the experimental translocation of *Tetratheca Juncea* from the planned mine disturbance area. The relocation is a management technique addressed in the Tetratheca Juncea Management Plan (Gunninah 2000a).

The experimental design for the translocation was based on a study currently being conducted in the Gwandalan area (Ecobiological, 2005). The ongoing monitoring of the translocated plants will focus on collecting data and information about the circumstances under which the plants are growing. Each plant and each recipient site has been photographed following translocation and will be photographed every twelve months for 5 years. The plants were monitored and watered on a weekly basis for 6 weeks post planting to help ensure maximum initial survival and will be inspected twice per year for the five-year period.

Environmental Management

The following control measures are employed at the mine in order to ensure a high level of conservation for the threatened plant species *Tetratheca Juncea*:

- The protection of 650ha of bushland around the mine to conserve habitat;
- The reduction of the proposed mining footprint and the establishment of a conservation precinct protecting a known population of *Tetratheca Juncea*;
- Ongoing mapping and management protocols; and,
- Pre-clearing surveys by a qualified biologist prior to any clearing activities.

In addition Donaldson supported both financially and technically, an honours student completing studies in Environmental Management at the University of Newcastle. The project commenced in January 2002 and considered the ecology and growth of *Tetratheca Juncea*.

General flora monitoring undertaken at the mine has included:

- Woody debris survey;
- Flora quadrant monitoring;
- Biomass assessment;
- Floristic identification;
- Foliage projective cover assessment; and,
- Tree height and basal area assessment.

Environmental Performance

A baseline report was completed in January 2003 by Barker Harle. This report describes the implementation of the Tetratheca Juncea Management Plan and includes baseline information for use in subsequent reports. Subsequent monitoring and reporting is undertaken on an annual basis.

The following is a summary from the TJCA Annual Report 2015 (Kleinfelder, 2016a).

The monitoring data continue to show a population that has significantly declined since the start of monitoring. Evidence points to Tetratheca juncea being out-competed by other ground species. Overall, this report builds on previous reports in demonstrating that the TjCA population would benefit from a fire. This would both reduce the current level of competition and provide more nesting areas for tunnelling native bee pollinators.

There has been one published study by Norton (1994) and one unpublished study Driscoll (2004) looking at the response of *Tetratheca juncea* to fire. Both studies showed that plant clumps resprout following fire. Norton (1994) noted that fire temperature and duration of heating experienced by plant clumps had an effect on their ability to resprout. High temperatures are likely to burn deep into the rootstock which results in the plants being killed. Driscoll (unpub) observed that, even if the main rootstock was killed, the plant could resprout from secondary roots away from the original location. Bartier et al. (2001) studied germination of *Tetratheca juncea* seed and found that application of smoke water resulted in a significant increase in germination rate.

General flora assessments conducted by Kleinfelder have determined that floristic diversity recorded in 2015 has remained similar to 2014, with an overall increase species richness since the baseline survey in 2001. This is

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indicative of a dynamic plant community with high recruitment from the seed pool, normally an indicator of healthy, regenerating plant community status (Kleinfelder, 2015b).

All biomass variables examined (i.e. basal area, height, foliage projective cover (FPC) and stand volume) have also shown consistent and substantial increases over the last 15 years since the baseline survey in 2001. A regression analyses undertaken by Kleinfelder confirms that the relationship between time and increases in FPC and stand volume were highly significant indicating that the community biomass has increased substantially across time with no significant year-to-year variation from 2001 to 2015.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.7 THREATENED FAUNA

Several species of threatened fauna were identified during the EIS and supplementary reports, including both the areas proposed for mining and the immediate environs. They include the following:

- The Powerful Owl;
- The Masked Owl;
- The Barking Owl;
- Sooty Owl;
- Varied Sittella;
- Yellow-bellied Sheathtail Bat;
- Eastern Bent-wing Bat;
- Eastern Freetail Bat;

- Eastern Cave Bat;
- Greater Broad-nose Bat;
- Little Bent-winged Bat;
- Southern Myotis;
- Little Lorikeet;
- Squirrel Glider.
- Eastern False Pipistrelle

Environmental Management

To ensure a high level of conservation for the threatened fauna species found on the site:

- The protection of 650ha of bushland around the mine to conserve habitat;
- Ongoing survey and management protocols;
- Routine annual quadrant monitoring,
- Placement of nest boxes in the Bushland Conversation Area to replace nesting sites destroyed by clearing;
- Ongoing and progressive rehabilitation of disturbed areas.

The following fauna monitoring activities were undertaken during the 2014/15 AEMR reporting period:

- Small mammal trapping;
- Insectivorous bat harp trapping;
- Insectivorous bat call recording;
- Owl call playback;
- · Spotlighting;
- Bird surveys; and,
- Nest box monitoring.

These monitoring activities were carried out during summer and winter surveys, as well as a recolonisation survey of the rehabilitated areas at the mine.

Environmental Performance

The 2015 survey detected a total of 89 fauna species consisting of 51 birds, 10 non-flying mammals, 17 bats, seven amphibians and four reptiles. Six of the recorded bat species are listed as threatened under the NSW *Threatened Species Conservation Act 1995*. The fauna species results in 2015 are similar to previous years with no significant increase or decrease. Notably, two threatened owl species, the Powerful Owl and Masked Owl were detected in 2015 for the second consecutive year after several years of absence.

The usage rate recorded in 2015 of nest boxes installed in 2005 was 74% which has plateaued since peaking in 2012, suggesting the nesting boxes are at carrying capacity. However, the number of unavailable nesting boxes (due to broken lids, termite infestation, or destruction by weather) continued to increase from 23% in 2014 to 33% in 2015. Maintenance of the boxes will be undertaken in 2016.

Overall findings of the 2015 monitoring conclude that there have been no significant impacts on floristic or fauna diversity within the Donaldson Bushland Conservation Area over the last 15 years.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.8 WEEDS AND PESTS

Prior to the commencement of mining the area was heavily disturbed by fire, dumping of rubbish, 4 wheel drive vehicles and motorcycles. As a result there have been a number of weeds introduced into the area. A number of pests are also prevalent on the site, including feral dogs, foxes, hares and rabbits.

Donaldson has undertaken to manage the weeds and pests as part of the management of the property including the areas in the Bushland Area, the areas to be disturbed by mining and the rehabilitated areas.

Environmental Management

The weed management program involves the active control and monitoring throughout the site to control and prevent the spread of invasive weeds (including the rehabilitated areas). The following control strategies may be used on the site:

- Observance of the requirements prescribed by the NSW *Noxious Weeds Act 1993*;
- Assessment of weeds during pre-clearing and monitoring surveys;
- Dedicated weed control programs along access roads, tracks and exploration lines;
- Ensuring vehicles coming onto the site are clean and free of soil that could transfer weeds from other sites;
 and,
- Restricting access to the mine site by the erection of a fence and gates in an attempt to control illegal dumping.

The primary objective of the pest control strategy is to control the number of feral animals on the site. This is achieved by assessing the presence of pests during the routine monitoring program and during day to day activities. Where necessary the following specific control measures may be employed:

- Detailed surveys for feral animals; and,
- Targeted baiting programs.

Environmental Performance

Donaldson continued the noxious weed control program in the 2014/15 AEMR reporting period. A herbicide spraying program was conducted during March 2015 targeting Pampas Grass and Ink Weed. Access tracks into the pit voids, site infrastructures and rehabilitation were targeted. With a total area of a half (0.5) a hectare.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.9 BLASTING

Mining operations ceased in April 2013. No blasting was undertaken during the reporting period.

3.10 OPERATIONAL NOISE

As mining ceased in April 2013, no operational noise monitoring was undertaken during the reporting period.

3.11 ENVIRONMENTAL PERFORMANCE

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.12 VISUAL AMENTIY AND STRAY LIGHT

Impacts on visual amenity were identified as one of the issues for residents in the Black Hill area during the EIS process. To date there have not been any complaints related to visual impact issues received by Donaldson. This includes complaints relating to stray lighting.

Environmental Performance

Visual impact and stray lighting is not considered an issue for the mine, particularly as the mine has ceased operations and is being rehabilitated. However, should any visual issues arise, appropriate controls would be adopted to minimise any impacts.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.13 CULTURAL AND NATURAL HERITAGE

The following section outlines the commitment made by Donaldson for the protection of cultural and natural heritage of the area. A copy of a plan along with a summary table showing the known Aboriginal Cultural heritage sites is attached as **Appendix 2** of this report.

To date thirty-one (31) sites of Aboriginal Cultural Heritage have been identified on property owned by Donaldson. None of these sites were in areas that were impacted on by site activities during the 2014/15 AEMR period.

No European heritage sites have been identified at the mine.

Archaeological Studies

The mine has been the subject of four archaeological studies since 1998. During each study the principal aims have been to:

- Consult and involve the Aboriginal Community at every stage of the investigation and to provide continuous
 opportunities for the Aboriginal Community (through the LALC) to participate in the interpretation and
 decision making process;
- Identify and record by field survey the material evidence of Aboriginal cultural heritage or locations of potential evidence with the land owned by Donaldson;
- Assess the archaeological significance and understand the Aboriginal significance of material evidence of Aboriginal cultural heritage of the study area; and,
- Assess the impacts of the mine on Aboriginal Cultural Heritage.

Management

In accordance with Conditions 84, 85 and 86 of the Development Consent, Donaldson has prepared an Aboriginal Sites Management Plan for the mine. Separate plans were produced for each year of operation at the mine. This provided a better opportunity to address specific issues for each year as well as an opportunity to review and address the management of Aboriginal Sites both inside the mine impact area and within associated bushland areas surrounding the mine.

The following control measures have been employed at the mine in order to ensure that reasonable duty of care is taken to ensure sites of Aboriginal cultural significance are not knowingly disturbed or destroyed:

- The MLALC is actively involved in the management of Aboriginal Sites at Donaldson; and,
- Representatives of the Lands Council are invited on site to monitor clearing and topsoil stripping activities.

Performance

Donaldson and MLALC enjoy a good working relationship and to date there have been no complaints or incidents recorded in relation to the management of sites of Aboriginal cultural heritage.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.14 SPONTANEOUS COMBUSTION

No stockpiles of ROM coal remained on site during the reporting period and no spontaneous combustions issues arose from the pit voids during the reporting period.

3.15 BUSHFIRE

A Bushfire Management Plan was prepared in 2004 for the areas owned by Donaldson. This includes both those areas to be disturbed by mining activities and the areas set-aside as Bushland Conversation Areas. The management plan was submitted to the NSW Rural Fire Service (RFS) for review and part of the review involved a site inspection by the RFS. The Cessnock/Maitland Bushfire Management Committee ratified the Bushfire Management Plan for the mine at its meeting in October 2006. The Bushfire Management Plan takes into consideration the requirement for hazard reduction burns, natural fire regime and the need to maintain the ecological value of the site for flora and fauna

Environmental Management

A 20m fuel free and 15m fuel reduced zone has been established around the Donaldson administration office in accordance with the requirements of the Cessnock City Council.

Care is to be taken to ensure fires (those lit environmentally, accidentally or deliberately) are kept out of areas that have been recently revegetated. Fire management trails will be established to provide access into these areas as well as fire breaks should they be required. In addition, care will be taken to keep fire out of the pit areas and rehabilitated overburden emplacement areas. This is to ensure that the risk of any carbonaceous material catching fire is kept to an absolute minimum.

A hazard reduction burn was undertaken during the 2008/09 AEMR period. In April 2009, the Rural Fire Service completed a controlled burn off along the Hunter Water Corporation water pipeline. Hazard reduction will again be considered in the next AEMR reporting period as determined by the Bushfire Management Plan and the advice of the local RFS office. The program will maintain reduced fuel loading and protect mine assets and adjoining private properties.

A fuel loading reduction was undertaken during the 2010/11 AEMR period. The area around the Donaldson Administration and Donaldson Open Cut offices was cleared using a trittering machine in accordance with an approval from the Rural Fire Service.

Environmental Performance

There were no reported fires on Donaldson property during the 2014/15 AEMR period.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.16 CONTAMINATED LAND

There was no contaminated land identified during this AEMR reporting period.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

3.17 PUBLIC SAFETY

Donaldson has fenced the eastern and southern boundaries of the mining lease, which are the most accessible to the public.

Sign-posting advising the public of the presence of the mine have been placed at the entrance and around the perimeter of the lease. The fences are inspected on a weekly basis and repairs undertaken where necessary.

Reportable Incidents

No reportable incidents were recorded during the 2014/15 AEMR reporting period.

4. COMMUNITY RELATIONS

4.1 COMPLAINTS

There were zero (0) complaints received by Donaldson Coal on the 1800 111 271 community hotline during the 2014/15 AEMR reporting period, with zero (0) received in the previous AEMR reporting period.

4.2 COMMUNITY LIAISON

Community Consultative Committee (CCC)

There were no CCC meetings held at the mine site during the 2014/15 AEMR reporting period. It was deemed by both Donaldson management and CCC Chairman that a meeting during the 2014/15 AEMR reporting period was unnecessary. This was due to the mine no longer operating during the 2014/15 AEMR reporting period.

Community Newsletters

There were no community newsletters prepared in the 2014/15 AEMR reporting period, however, a Community Noticeboard has been established on the Donaldson Coal Internet Site which has proven to be successful and is the preferred avenue for communicating information about the mining operations to the local community and any other interested parties.

Donaldson Coal Internet Site (www.doncoal.com.au)

The Donaldson Coal Internet site was launched in August 2000. It has since been reviewed and improved, with additional information and a site upgrade in August 2004. The site has been developed to provide information to the wider community. It contains up to date copies of the CCC meeting minutes, a Community Noticeboard, Donaldson news and updates, the most recent Environmental Monitoring Report, pictures of the mine and general information. It also contains a list of contact details should anyone wish to contact the mine directly either by telephone or e-mail.

5. REHABILITATION

5.1 INFRASTRUCTURE

Assorted infrastructure has been removed from site as part of the final rehabilitation project during the 2013/14 AEMR reporting period. This has included the removal of fuel storage tanks, traffic control boom gates and a number of bitumen and dirt roads.

No additional infrastructure was removed during the 2014/2015 reporting period.

5.2 REHABILITATION OF DISTURBED LAND

The final rehabilitation project at the mine, involved the following works during the 2013/14 AEMR reporting period as outlined in the Mine Closure Plan for Donaldson Open Cut:

- Excavation of waste rock and contaminated material to the west pit;
- Reshaping of the land surface to as near as possible to natural topography;
- Spreading of topsoil on reshaped surfaces;
- Spreading of a seed mix of local tree and shrub species, as well as fast growing, sterile groundcovers which grow rapidly to provide erosion control, of the remaining 27.7 ha of rehabilitated area.

The West Pit and Square Pit has been made safe and left for use by the Abel Underground Mine who will be responsible for its ongoing management. No further areas remain to be rehabilitated as part of the Donaldson Coal Mine operation.

Tables 17 and **18** provide a summary of the areas disturbed and rehabilitated at the start and end of the reporting period and estimated areas during the next reporting period.

5.3 REHABILITATION MONITORING

An assessment of rehabilitation performance was conducted in the 2014/15 AEMR reporting period by Global Soil Systems. This formed part of an ongoing assessment since August 2009 of six (6) monitoring plots in the rehabilitated areas of the mine and one (1) control plot in the Bushland Area. The monitoring techniques employed in the rehabilitation assessment were:

- General assessment of vegetation;
- 2m x 2m quadrat survey of plant numbers, vegetation cover and groundcover;
- 20m x 10m quadrat survey of tree/shrub numbers, canopy cover measurement, tree health and new plant species:
- Analysis of soil samples for pH, EC, nitrogen, potassium, phosphorus, sulphur, major cations, major anions, cation exchange capacity, exchangeable sodium percentage and total organic carbon;
- 50m erosion transect; and,
- Photographic record of plots.

The results of this assessment were then compared with the completion criteria adopted by Donaldson. These criteria cover soil quality, vegetation, growth rates, species diversity and stem densities. The assessment found that several of the rehabilitated areas have already met the completion criteria and that all rehabilitated areas assessed are on track to meet the required completion criteria (Global Soil Systems, 2000c). The Global Soil Systems Donaldson Coal Mine Rehabilitation Monitoring Report can be provided for review upon request.

FLORA MONITORING

Natural recruitment was evident in most plots and particularly older plots where canopy thinning, as a result of Acacia die back and the 2015 April severe storm, has resulted in more light reaching the forest floor. While some of these species appear to have originated from sown species other plants appear to have originated from re-spread topsoil and from introduction through natural vectors such as birds, wind etc. In all sites there was evidence of flowering and seed production in some eucalypt species as well as Acacias although there is currently only minimal evidence of second generation eucalypts.

Table 17: Rehabilitation Summary

			Area Affected (ha)	
		To date	Last Report	Next Report (estimated)
A: MINE LEA	SE AREA		•	
A1 Mine lease(s	e) Area	532.800	532.800	532.800
B: DISTURBE	D AREAS			
B1 Infrastructu closure including fa	are area (other disturbed areas to be rehabilitated at acilities, roads)	38.630	37.970	30.284
B2: Active Minimum (excluding it	ng Area ems B3 - B5 below)	18.940	18.030	0
B3 Waste empl	acements, (active/unshaped/in or out-of-pit)	10.930	34.180	15.546
B4 Tailings em	placements, (active/unshaped/uncapped)	0	0	0
B5 Shaped was (awaits final	te emplacement vegetation)	68.110	43.720	0
TOTAL ALL DIS	TURBED AREAS	136.610	133.900	45.830
C: REHABILI	TATION			
C1 Total Rehab (except for n	pilitated area naintenance)	144.920	141.220	215.219
D: REHABILI	TATION ON SLOPES			
D1 10 to 18 deg	rees	6.350	0	6.350
D2 Greater tha	n 18 degrees	0	0	0
E: SURFACE	OF REHABILITATED LAND		•	
E1 Pasture and	grasses	0	0	0
E2 Native fores	t/ecosystems	144.920	139.930	215.219
E3 Plantations	and crops	0	0	0
E4 Other (inclu	de non-vegetative outcomes)	0	0	0

Table 18: Maintenance Activities on Rehabilitated Land

Nature of Treatment	Approximate Area Treated (ha)		
	During Reporting Period [#]	During Next Reporting Period*	Comments/control strategies/treatment detail#
Additional Erosion Control Works	0	0	
Re-covering	0	0	
Soil Treatment	0	0	
Treatment/ Management	0	0	
Re-seeding/ Replanting	0	0	
Adversely Affected by Weeds	30	30	Lantana spraying
Feral Animal Control	150	150	Wild dog baiting program

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FAUNA MONITORING

Fauna monitoring within the rehabilitated areas has also been undertaken since 2008 by Kleinfelder. A total of 28 fauna species were recorded during the 2015 surveys including three non-flying mammals, eight Microchiropteran bats and 17 bird species.

One new bird species was recorded during this survey, Common Bronzewing (*Phaps chalcoptera*). This result was below the yearly average of 40 species, mainly due to no reptile species being detected. The lack of reptile species is unexpected and monitoring will continue to determine if this trend continues. Nevertheless the rehabilitation areas are showing positive signs of re-colonisation by a variety of fauna species and, overall, the total number of fauna species detected each year during the fauna surveys has remained reasonably constant, albeit fluctuating around a stable mean.

Monitoring of nest boxes within the rehabilitated areas also indicates that the trends emerging after 5 years of monitoring are positive with 85% of all nest boxes exhibiting evidence of use. The continued uptake of all nest box types is an indicator of the potential of rehabilitated areas for supporting local fauna species. The observed encroachment of gliders using terrestrial boxes for the last three years is also a sign of how important a role hollows play in a forest ecosystem.

6. ACTIVITIES PROPOSED IN THE NEXT AEMR PERIOD

6.1 REHABILITATION

The primary activity planned to occur in the 2014/15 AEMR reporting period is the monitoring and maintenance of the final rehabilitation project at Donaldson Coal mine, as outlined in the Mine Closure Plan for Donaldson Open Cut. The West Pit and Square Pit will be made safe and left for use by the Abel Underground Mine who will be responsible for its ongoing management.

6.2 MONITORING

The environmental monitoring required to be undertaken at Donaldson Coal mine under the EPL, development consent and other regulatory documents will continue to be carried out in the 2015/16 AEMR reporting period.

7. REFERENCES

DLA Environmental (2013) Donaldson Coal Mine – Environmental Investigation.

EcoBiological (2007) The Experimental Translocation of Tetratheca Juncea (Tremandraceae) at Donaldson Coal Mine, Beresfield.

Global Soil Systems (2000a) Erosion & Sediment Control Plan.

Global Soil Systems (2000b) Donaldson Coal Waste Management Plan.

Global Soil Systems (2000c) Donaldson Coal Mine Rehabilitation Monitoring Report.

Gunninah (December 2000a) Donaldson Open-cut Coal Mine, Tetratheca Juncea Management Plan.

Gunninah (December 2000b) Donaldson Open-cut Coal Mine Tetratheca Juncea survey and identification report.

Gunninah (2007) Donaldson Open-cut Coal Mine, Beresfield, Flora and Fauna Management Plan.

Holmes Air Sciences (2007) Air Quality Management Plan.

Kleinfelder (2015a) Annual Survey of the Tetratheca Juncea Conservation Area 2015, Donaldson Coal: Open Cut Mine.

Kleinfelder (2015b) 2015 Annual Flora and Fauna Monitoring.

Kleinfelder (2015c) 2015 Rehabilitation Monitoring.

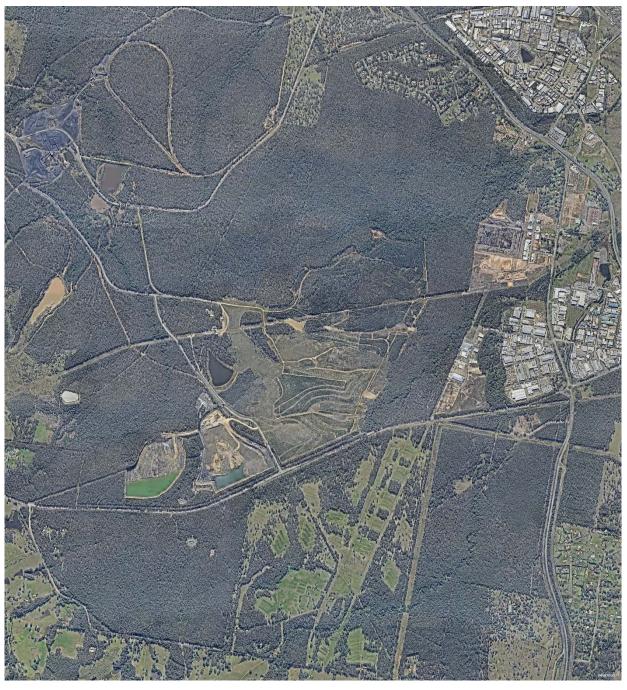
NSW DPI (2006) Environmental Management Guidelines for Industry – Guidelines to the Mining, Rehabilitation and Environmental Management Process.

Perrens Consultants (2000) Water Management Plan.

Niche Environment & Heritage (2015a) Aquatic Monitoring Report Spring 2015.

Niche Environment & Heritage (2015a) Aquatic Monitoring Report Autumn 2015.

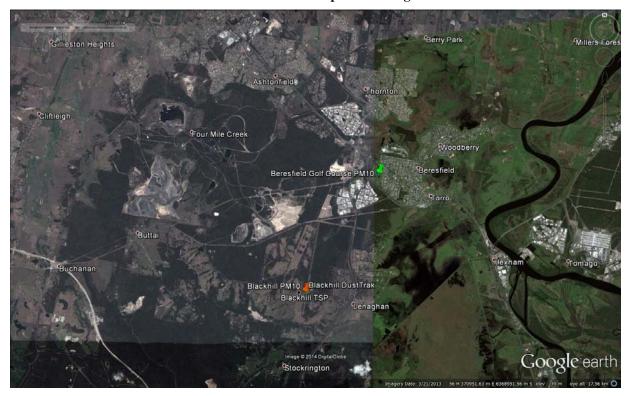
Appendix 1
Site Locality Plan and Monitoring Locations



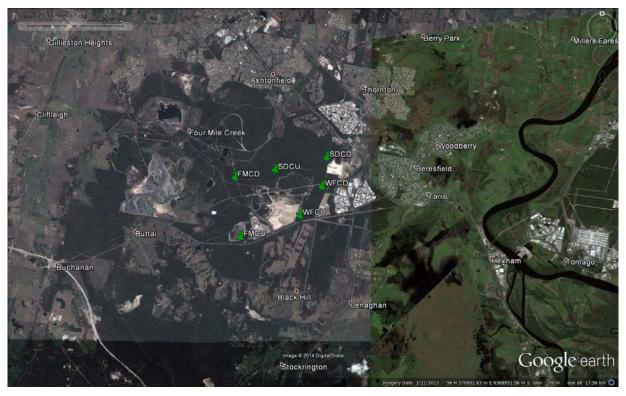
Donaldson Coal Mine: Regional Context



Donaldson Coal Mine: Dust Deposition Gauge Locations



Donaldson Coal Mine: HVAS and DustTrak Locations



Donaldson Coal Mine: Surface Water Monitoring Locations



Donaldson Coal Mine: Groundwater Monitoring Locations

Appendix 2

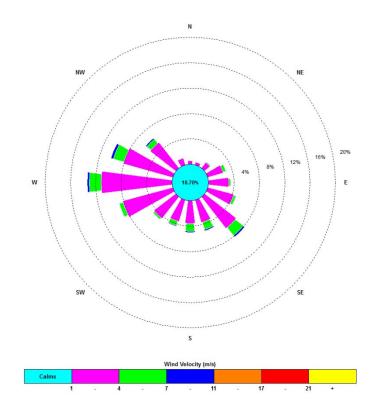
Description and Location of Known Aboriginal Sites

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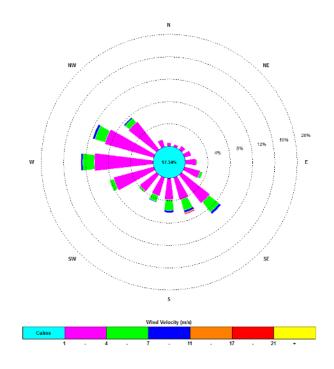
Site Name	Recorder	Location	Description	Comments
Bushland Conversation FMC3	Effenberger (1997)	368300E 6368900N	Artefact scatter (5 artefacts), one axe	
		Bank of Four Mile Creek	grinding groove	
FMC4	Effenberger (1997)	368250E 6368650N Lower slope above Four Mile Creek	Artefact scatter (2 artefacts)	
FMC5	Effenberger (1997)	368500E 6368700N Lower slope above	Artefact scatter (2 artefacts)	
FMC6	Effenberger (1997)	Four Mile Creek 368400E 6366100N Upper slope above Four Mile Creek	Artefact scatter (4 artefacts)	
FMC7	Effenberger (1997)	367600E 6366500N Crest between Four Mile Creek and a major tributary	Artefact scatter (3 artefacts)	
FMC8	Effenberger (1997)	367600E 6366850N Upper slope above tributary of Four Mile Creek	Scarred tree	
WFC1	Effenberger (1997)	371200E 6369200N Lower slope above Weakleys Flat Creek	Artefact scatter (3 artefacts)	
ISF3	Umwelt (1998)	368750E 6367650N Lower slope above Four Mile Creek	Isolated find	
ISF4	Umwelt (2001)	370550E 6368625N Mid slope above Weakleys Flat Creek	Isolated find	
Four Mile Creek 1 (38-4-139)	Brayshaw (1985)	368130E 6367020N Bank of Four Mile Creek	Artefact scatter (19 artefacts)	
Four Mile Creek 2 (38-4-140)	Brayshaw (1985)	367820E 6366880N Terrace of Four Mile Creek	Artefact scatter (10 artefacts)	
CA1	Umwelt (2001)	370658E 6368051N Mid slope, south of Weakleys Flat Creek	Isolated find	
CA2	Umwelt (2001)	371132E 6369039N Lower slope, north west of Weakleys Flat Creek	Artefact scatter (2 artefacts)	
CA3	Umwelt (2001)	370985E 6370511N Lower slope above a tributary of Scotch Dairy Creek	Isolated find	
CA4	Umwelt (2001)	369568E 6370040N Mid slope above Scotch Dairy Creek	Isolated find	
CA5	Umwelt (2001)	368391E 6366747N Mid slope, east of Four Mile Creek	Isolated find	
CA6	Umwelt (2001)	368229E 6366592N Lower slope above a tributary of Four Mile Creek	Isolated find	

CA7	CA7	Recorder	Location	Description	Comments
Mid slope above Four Mile Creek		Umwelt (2001)	367617E		
Mile Creek					
DMS2			1		
DMS2					
Lower slope, south of Scotch Dairy Creek Artefact scatter (2 artefacts)	CA8	Umwelt (2001)		Isolated find	
DMS2					
DMS2					
DMS4					
Mid slope, south of Weakleys Flat Creek Soluted find Soluted	DMS2	Umwelt (2002)			
Weakleys Flat Creek				artefacts)	
DMS4					
DMS5	DMC4	11 1/ (2002)		T 1 4 1 C 1	
Mid slope, east of Four Mile Creek	DMS4	Umweit (2002)		Isolated find	
Mile Creek Solution DMS5 Umwelt (2002) 370665E Isolated find 6368177N Mid slope, south of Weakleys Flat Creek DMS6 Umwelt (2002) 370809E 6369721N Mid slope, south of Scotch Dairy Creek Scarred tree 6369721N Mid slope, south of Scotch Dairy Creek Sc					
DMS5					
Mid slope, south of Weakleys Flat Creek	DMC5	Limwelt (2002)		Isolated find	
Mid slope, south of Weakleys Flat Creek Scarred tree	DIVISS	Oniweit (2002)		Isolated lilid	
Weakleys Flat Creek					
DMS6					
6369721N Mid slope, south of Scotch Dairy Creek	DMS6	Umwelt (2002)		Scarred tree	
Mid slope, south of Scotch Dairy Creek Mine Impact Area ISF1 (Effenberger 1997) S70500E 6369100N Lower slope above small tributary of Weakleys Flat Creek ISF2 (Effenberger 1997) 370500E 6369100N Lower slope above small tributary of Weakleys Flat Creek Isolated find Consent to Destroy granted (2002) S69800E 6368950N Lower slope above Lower slope above	DIVISO	Olliwelt (2002)		Scarred tree	
Scotch Dairy Creek Scotch Dairy Creek Mine Impact Area					
ISF1 (Effenberger 1997) 370500E (Solution of Solution					
ISF1 (Effenberger 1997) 370500E	Mine Impact Area	I	Section Burny Creek		l
ISF2 (Effenberger 1997) 369800E (Effenberger 1997) Lower slope above small tributary of Weakleys Flat Creek Isolated find Consent to Destroy granted (2002) Lower slope above		(Effenberger 1997)	370500E	Isolated find	Consent to Destroy
Lower slope above small tributary of Weakleys Flat Creek ISF2 (Effenberger 1997) 369800E Isolated find Consent to Destroy granted (2002) Lower slope above	1011	(Entenderger 1997)		Isolatea Illia	
ISF2 (Effenberger 1997) Sometimes of Weakleys Flat Creek (Effenberger 1997) Sometimes of Weakleys (Effenberger 1997) Somet					8 ()
ISF2 (Effenberger 1997) 369800E Isolated find Consent to Destroy granted (2002) Lower slope above					
6368950N Lower slope above granted (2002)			Weakleys Flat Creek		
Lower slope above	ISF2	(Effenberger 1997)	369800E	Isolated find	Consent to Destroy
					granted (2002)
			Lower slope above		
			tributary of Weakleys		
Flat Creek					
ISF5 Umwelt (2001) 370275E Isolated find Application being	ISF5	Umwelt (2001)		Isolated find	
					prepared for consent to
Mid slope above remove					remove
Weakleys Flat Creek			Weakleys Flat Creek		
10F(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IOE	11 1. (2001)	2702055	X 1 . 1 1	A 1: .: 1 :
ISF6 Umwelt (2001) 370305E Isolated find Application being prepared for consent to	1816	Umwelt (2001)		Isolated find	Application being
Mid slope above remove					prepared for consent to
Weakleys Flat Creek					Telliove
Ironbark 2 (38-4-339) Ruig (1993) 369190E Isolated find	Ironhark 2 (29 4 220)	Puig (1002)		Isolated find	
110110atk 2 (38-4-339) Rulg (1993) 309190E Isolated find 6367890N	110110aik 2 (30-4-339)	Kuig (1773)		isolateu IIIIu	
Upper slope above					
tributary of Weakleys					
Flat Creek					
DMS1 Umwelt (2002) 369734E Isolated find Consent to Destroy	DMS1	Umwelt (2002)		Isolated find	Consent to Destroy
6369122N soluted find consent to Desirey	2	5 (2002)		15014tou Illiu	
DMS3 Umwelt (2002) 369090E Isolated find	DMS3	Umwelt (2002)		Isolated find	5(2002)
6367962N	2.1100	2002)		15014104 IIII4	
Mid slope above Four					
Mile Creek					i

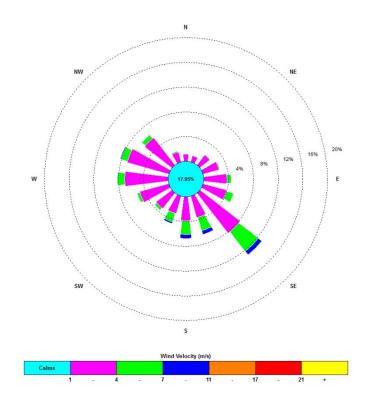
Appendix 3 Wind Direction Diagrams



Annual

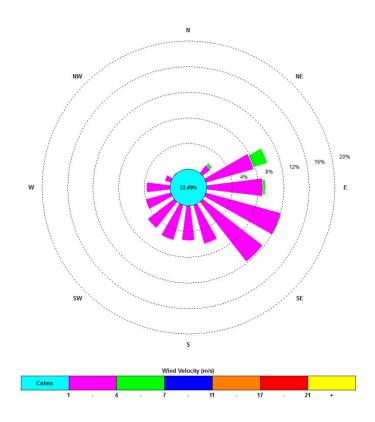


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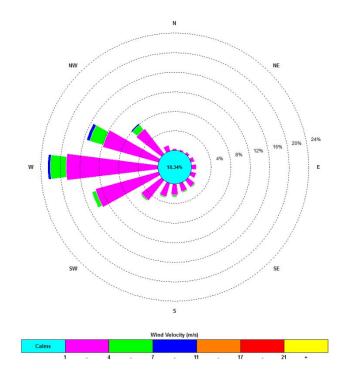


Spring 2015

Α



Summer 2015



Winter 2015



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Appendix 4 Donaldson Development Approval Conditions

Condition	Minister's Conditions of Consent (MCoA)	Compliance	2	Comments/Notes
		Yes	No	
OPERATION OF	DEVELOPMENT		T	1
1	(1) Applicant shall carry out the development of the: Development application DA98/01173, dated 13 Feb 1998, lodged with Maitland City Council and DA 118/698/22 dated 19 Feb 1998, lodged with Cessnock City Council and the accompanying Environmental Impact Statement (EIS) dated 10 Feb 1998 and prepared by PPK Environment and Infrastructure, as modified by reports in Schedule 4; Submissions to the Commission of Inquiry by the applicant; Statement of Environmental Effects titled Modification to the approved mining area at the Donaldson Open Cut Cola Mine, Beresfield, dated 10 Nov 2004, and prepared by GSS Environmental; Conditions of this consent. (2) If there is any inconsistency between the above, either the conditions of this consent or the most recent document shall prevail to the extent of the inconsistency. (3) Unless otherwise specifically stated, the conditions of consent do not apply to lot 131 DP 234203 (owned by Steggles Limited at the date of this consent), provided the Deed of Agreement between Steggles Limited and the Applicant is in effect.	YES		The Donaldson Coal project has been developed generally in accordance with the EIS (PPK 1998) and the SEE (GSS 2004), with the mine pits and rehabilitation conducted in accordance with the Mining Operations Plan approved by DPI-Mineral Resources.
2	Except as expressly provided by the Statement of Environmental Effects, dated 10 November 2004, the development shall be restricted as follows: (i) the mine plan in the EIS shall be reduced such that no mining shall be undertaken in any area identified in accordance with these Conditions as a Conservation Area. This includes the Tetratheca Juncea Conservation Area (Condition 68); and (ii) the Applicant shall not clear any land or erect any structures within any Conservation Area without obtaining any further development approval from the Director-General.	YES		The mining area is delineated on the mine plans with the Conservation Area that surrounds the disturbed area of the mine managed for the protection of the vegetation and habitat value. The relocation of the 11kV power line required clearing a small area of the Bushland Conservation Area on the western end of the site and rehabilitation of the existing power line easement. The clearing and rehabilitation of these areas and the adjustment to the boundaries of the Bushland Conservation Area were approved by DoP in Nov 2006.
3	(1) Subject to (2) the approved hours of operation are as follows:	YES		Overburden removal only occurs at the Donaldson Mine on the day and afternoon shifts. Coal extraction and transport to Bloomfield CPP occurs 24 hours per day on an internal haul road. Blasting occurs during day shift only. Closure of John Renshaw Drive occurs in accordance with the RTA Road Occupancy Licence. Road closure allowance within the licence for blasting is restricted to 10 minutes for any blast between 0930 and 1430 Monday to Friday and 0700 to 1600 on Saturdays.

Condition	Minister's Conditions of Consent (MCoA)	Compliance	e	Comments/Notes
		Yes	No	
				Blast times are planned to comply with the restrictions in MCoA 3.
	(2) The Applicant shall submit a report to the D-G's satisfaction demonstrating that the noise limits in Condition 15 can be met while rail loading of coal is occurring during the period from 6pm to 10pm. If that report does not demonstrate that the noise limits can be met to the D-G's satisfaction, then the hours of operation for rail loading of coal shall be restricted to 7am to 6pm.	YES		The Noise Report on rail loading at the Bloomfield Coal Loading Facility prepared in 2001, concluded that loading until 10 pm could occur without exceedance of the noise criteria at the surrounding receptors.
4	The Applicant shall comply with any order of the D-G to cease activities causing serious or irreversible environmental concerns, until those concerns have been addressed to the satisfaction of the D-G.	-		Not activated.
COMMENCEMI	ENT AND DURATION			
5	(1) To ensure the employment benefits of this development are realised without delay, the Applicant shall commence mining within two years of the date of this Consent. This does not remove the obligation of the Applicant to comply with any other requirement listed in the Conditions of this Consent. (2) To minimise potential delays to development on adjoining lands, consent for mining shall lapse 11 years from commencement of mining.	YES		Mining commenced on 25 January 2001 (i.e. within 2 years of granting of the Consent) therefore this condition was complied with. Extension of time approved by Department of Planning.
6	The Applicant shall notify the Director-General and the Councils in writing of the dates of commencement of: (i) construction works, (ii) mining, and (iii) coal processing operations, 14 days prior to the commencement of such works.	YES		Donaldson Coal provided written Notification to the Director-General and Councils prior to commencement of construction works, mining and coal processing operations.
7	No construction or mining shall commence until: (i) the relevant compliance reports in Condition 121 have been completed to the satisfaction of the Director-General; and (ii) the Applicant provides evidence to the Director-General of an agreement with the adjoining Bloomfield mine for the use of rail loading infrastructure.	YES		(i) Compliance Reports for construction and mining were prepared and submitted to DUAP prior to commencement of the activities on the site in 2001. (ii) An Initial Agreement between Donaldson Coal and Bloomfield occurred in 2000 for the use of the Bloomfield Washery for processing Donaldson Coal. Continued use of the Bloomfield Washery and rail loading infrastructure in accordance with the Oct 2000 Agreement was approved by the Director-General in 2003 and 2006.

ENVIRONMEN'	TAL OFFICER		
8	The Applicant shall employ an Environmental Officer, whose qualifications are suitable to the Director-General, throughout the life of the mine. The Environmental Officer shall: (i) be responsible for the preparation of the Environmental Management Strategy and environmental management plans; (ii) be responsible for considering and advising on matters specified in the Conditions of this Consent and compliance with such matters; (iii) be responsible for receiving and responding to complaints; (iv) facilitate an induction and training program for all persons involved with construction activities, mining and environmental management activities; and (v) have the authority and independence to require reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts and failing the effectiveness of such steps, to stop work immediately if an adverse impact on the environment is likely to occur.	YES	Phillip Brown was employed as Environmental Manager in 2003 and Planning NSW was notified on 7 April 2003 as required by MCoA 8.
9	The Applicant shall notify the Director-General, EPA, DLWC, DMR, NPWS, Councils and the Community Consultative Committee (Conditions 107-110) of the name and contact details of the Environmental Officer upon appointment and upon any changes to that appointment.	YES	The Director-General, EPA, DLWC, DMR, NPWS, Councils and the Community Consultative Committee were notified 30 May 2003 by letter of the appointment of Phillip Brown.
ENVIRONMEN'	TAL MANAGEMENT STRATEGY		
10	The Applicant shall prepare an Environmental Management Strategy (the Strategy) for the development, providing a strategic context for environmental management. All environmental management plans required by the Conditions of this Consent shall be consistent with the Strategy. The Strategy shall be prepared in consultation with the relevant authorities and the Community Consultative Committee and to the satisfaction of the Director-General, prior to commencement of construction.	YES	The Environmental Management Strategy was prepared in May 2000 for the Donaldson Mine for construction of the mine and mining operations. Revision of the EMS occurred to integrate the requirements of the Donaldson Mine and the mining contractor to provide a single EMS for the project occurred in 2002. Review and revision of the EMS has occurred as management plans for the Donaldson Coal operations are revised and an integrated Environmental Management Strategy to include the Tasman and Abel Coal projects was approved by DoP on 26 February 2008.
11	The Strategy shall cover the area of mining, the haul road and rail loading facility, and the Conservation Areas. The Strategy shall include: (i) statutory and other obligations which the Applicant is required to fulfil during construction and mining, including all approvals and consultations and agreements required from authorities and other stakeholders, and key legislation and policies; (ii) definition of the role, responsibility, authority, accountability and reporting of personnel relevant to environmental management; (iii) overall environmental management objectives and performance outcomes, during construction, mining and decommissioning of the mine; (iv) overall ecological and community objectives and a strategy for restoration and management;	YES	The Environmental Management Strategy prepared for the Donaldson Mine included sections addressing each of the elements of ISO14001 and the requirements of MCoA 11.

			The Environmental Management Strategy provides the system and procedures for environmental management of the project and reference to relevant documentation for the implementation and maintenance of the programs by Donaldson Coal at the Donaldson Mine, Tasman Mine and Abel Mine.
12	The Applicant shall make copies of the Environmental Management Strategy available to Councils, EPA, DLWC, NPWS, DMR and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	Copies of the Environmental Management Strategy and revisions prepared for Donaldson Coal projects have been made available to the Councils, DECC, DPI and CCC.
ENVIRONMENT	TAL MONITORING AND REVIEWING		
13	(1) Except as provided in (2), the Applicant shall provide sixmonthly monitoring reports on all environmental monitoring required under this Consent for the first three years of the project and for any further period as may be determined necessary by the Director-General. The reports shall contain interpretations of the monitoring data, and summarise exceedances and action taken. The Applicant shall make copies of the monitoring reports available to the Director-General, DLWC, EPA, DMR, Councils and the Community Consultative Committee, and to NPWS where relevant. (2) Noise monitoring reports shall be provided six-monthly for the life of the mine, unless the Director-General, on the advice of the independent noise expert (Condition 48) requires more frequent reports.	YES	Monitoring Reports including all noise, blasting, air quality, surface and groundwater, indigenous heritage, flora and fauna, employment statistics, community consultation and complaints, were prepared six monthly and provided to the relevant authorities listed in MCoA 13 (1) between 2001 and 2004. DIPNR approved the reporting of monitoring an annual basis on 1 April 2004. All monitoring data and reporting has occurred in the AEMR's since 2004.
14	All sampling strategies and protocols undertaken as part of any monitoring program shall include a quality assurance/quality control plan and shall require approval from the relevant regulatory agencies to ensure the effectiveness and quality of the monitoring program. Only accredited laboratories shall be used for laboratory analysis.	YES	Quality assurance/Quality Control information and data is included in the laboratory reports from the NATA registered laboratory, with the monitoring data. All sampling and analysis has been conducted by Ecowise Environment NATA or AS/NZS ISO 17025 registered laboratories, as from 23 May 2002.

NOISE AND VIB	FRATION		
Noise Limits			
15	Except as may be expressly provided by a DEC licence under the POEO Act 1997, or unless subject to a negotiated agreement in accordance with Condition 23, the Applicant shall ensure that the noise emission from construction or mining operations, when measured or computed at the boundary of any dwelling not owned by the Applicant, shall not exceed the following limits: Location LA10(15 minute) noise limits (dB(A)) Daytime Night-time	YES	Quarterly Noise Surveys have been conducted by SLR Consulting and include both attended and unattended monitoring. Results of the monitoring and data are summarised and reported in the AEMR's. Attended noise survey results generally identified that noise levels contributed by Donaldson Mine operations do not exceed noise emission goals for any of the periods. The mine operations were recorded as inaudible at each of the monitoring sites for the majority of the attended monitoring periods.
Noise Managemen	nt		
16	Prior to 31 October 2005, the Applicant shall prepare a Noise Monitoring Program for the development in consultation with the DEC, and to the satisfaction of the Director-General, which includes a noise monitoring protocol for evaluating compliance with the criteria in condition 15.	YES	The Mine Noise Monitoring Plan was forwarded to DoP and DEC in Oct 2005 and a final revised copy submitted on 27 Dec 2005 for approval. The Plan was approved by DoP on 22 Jan 2007.
17	Deleted		
18	Deleted		
19	Deleted		
20	In the event that a landowner or occupier considers that noise or vibration from the project at their property is in excess of the relevant criteria set out in this Consent, the Applicant shall, upon receipt of a written request and at its own expense immediately undertake direct discussion with the landowners or occupiers affected to determine their concerns. Independent investigations of the noise complaints shall be carried out if the matter is not resolved within six weeks, in accordance with Conditions 48-53	Not activated.	No request for acquisition by any land owners due to noise or vibration impact had been initiated prior to April 2007.
Noise Acquisition			
21	If noise monitoring or independent noise investigations indicate that noise from construction or operation of the mine at the boundary of a dwelling, or within 30 metres of the dwelling where the boundary is more than 30 metres from the dwelling, is in excess of the noise limits set out in this Consent under adverse weather conditions and if appropriate noise control measures cannot be achieved on the mine site, the landowner may request the Applicant in writing to acquire the whole of the property or such part of the property requested by the landowner where subdivision is approved. Note: Adverse weather conditions means the presence of winds up to 3 metres per second, and/or temperature inversions of up to 4 degrees Celsius per 100 metres.	Not activated	
22	Any such request shall be referred to the Director-General for determination in consultation with the independent expert. If the Director-General determines acquisition is necessary, the Applicant shall acquire the property in accordance with Conditions 54-55.	Not activated	
Negotiated Agree	ments		

23	If monitoring or independent investigations indicate that noise or dust from the mine is in excess of the criteria set out in this Consent and the affected landowner does not wish to be acquired, the Applicant shall, if requested by the affected landowner, enter into a negotiated agreement. Where a negotiated agreement is required, the Applicant shall, within the time period specified by the Director-General: (i) appoint an independent facilitator, approved by the Director-General; (ii) negotiate a package of benefits for the landowner, which may include undertaking noise reduction measures on the property or at the dwelling(s) or compensation; (iii) pay all reasonable costs of the process; and (iv) report to the Director-General and the EPA on the agreement reached.	Not activated	No requirement for a negotiated agreement with any land owners.
BLASTING	1		
Blasting Criteria			
24 Blasting Design a	The Applicant shall ensure that the airblast over pressure level from blasting at the development does not exceed the criteria in Table 3, and the ground vibration level does not exceed the criteria in Table 4, at any residence on privately owned land or noise sensitive location as defined in the EPA's Industrial Noise Policy. Airblast Allowable exceedance overpressure (db(Lin Peak) 115 5% of total number of blasts in a 12 month period 120 0% Table 3: Airblast Overpressure Impact Assessment Criteria Peak Particle Velocity mm/s 5 5% of total number of blasts in a 12 month period 10 0% Table 4: Ground Vibration Impact Assessment Criteria	YES	Monthly monitoring reports are prepared by RCA/Hunter Acoustics for the Donaldson Mine blast events. Blast overpressure monitoring results for the Donaldson Mine operations did not exceed the requirements.
biasting Design a	nd Management	I I	(1) There are no initial
	(1) The Applicant shall not blast within 500 metres of an occupied residence.	YES	(1) There are no residential properties within 500 metres of the mining operations.
	(2) The Applicant shall not blast within 500 metres of private lands unless there is a written agreement between the Applicant and the landowner/occupier(s) to the satisfaction of the Director-General that guarantees the safety of persons who might use those lands.	YES	None identified during this period.
25	(3) The Applicant shall not blast within 500 metres of public lands unless public access to those areas is prevented at times of blasting.	YES	(3) An Agreement between Donaldson Coal and the RTA was signed in 2004 and a Road Occupancy Licence obtained in 2006 in relation to any short-term closure of John Renshaw Drive during blasting operations within 500 metres the public road. The Road Occupancy Licence with the RTA has been extended each six months since 2006, to allow Donaldson Coal to effect short-term road closures (of no greater than 10 minutes) when blasting was to occur at the mine within 500m of the pubic road.

	T	T I	
	(4) The Applicant shall not blast within 500 metres of a public road unless the road is closed with the prior written agreement of the Regional Traffic Committee (or in the absence of the Regional Traffic Committee, the Director-General). A copy of any such agreement shall be supplied to the Director-General within 14 days of the agreement. If determined necessary by the Regional Traffic Committee, the Applicant shall prepare a Traffic Study to identify upgrading of the surrounding road system commensurate with the additional traffic volumes. The Study shall be prepared in consultation with Councils and the RTA, and to the satisfaction of the Regional Traffic Committee. All recommended traffic management measures and road infrastructure upgrading are to be undertaken at the Applicant's expense prior to any closure of John Renshaw Drive. If the study identifies the need for acquisition to enable the works to be undertaken, acquisition shall occur in accordance with the acquisition procedures established under this Consent.	YES	An Agreement between Donaldson Coal and the RTA was signed in 2004 and a Road Occupancy Licence obtained in 2006 in relation to any short term closure of John Renshaw Drive during blasting operations that are within 500 metres the public road. Donaldson Coal have applied for and received an Extension from RTA for closure of John Renshaw Drive (Main Road 588) during blasting events at the Donaldson Mine.
	(5) The 500 metre distance may be reduced by the Director-General if a risk analysis undertaken by the Applicant to the Director-General's requirements indicates a lesser distance provides an appropriate level of safety.	Not activated at the time of this audit.	
26	The Applicant shall prepare and implement a Blast Management Plan in consultation with DMR and Councils, prior to the commencement of blasting (including trial blasting). The Applicant shall make copies of the Blast Management Plan available to the independent noise expert (Condition 48), EPA, DMR, Councils and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	Blast Management Plan was developed for the Donaldson Mine in consultation with the DMR and Maitland City Council, Cessnock City Council, and Newcastle City Council, prior to the commencement of blasting at the Donaldson Mine and copies of the Plan were distributed to the relevant authorities and the CCC. The Blast Management Plan was revised in 2007 and approved by DoP.
	The Blast Management Plan shall: (i) provide details of any proposed trial blasting;		(i) The Blast Management Plan 2001 addresses Trial
	(ii) identify a monitoring program, including locations and justification for selection of locations such as the Steggles Black Hill poultry operations and areas of old underground mine workings;	YES	Blasting in Section 6.2. (ii) The Blast Management Plan 2001 Section 8 addressed the Monitoring Program for the specified areas. The blast monitoring program has been actioned for each blast event at the Donaldson Mine in the past 12 months.
27	(iii) detail measures to ensure that air blast overpressure and vibration monitoring and control is generally carried out in accordance with the recommendations of Australian Standard AS-2187-1993 (or its latest version) and in terms of ANZECC Guidelines;	YES	The Blast Management Plan 2001 addresses Monitoring Procedures, in Section 8. The monthly Blast Monitoring and Assessment Reports by Hunter Acoustics address the quality control and monitor the data collection and recording.
	(iv) detail methods to measure weather data as soon as practicable prior to blasting and from that data predict whether noise levels are likely to be increased above the levels expected under prevailing meteorological conditions;	YES	The Blast Management Plan 2001 addresses Meteorological Data Collection in Section 7.2 and Table 9.4.1.

			The meteorological station located at the Donaldson Mine provides continuous records of the prevailing weather conditions and this data is available immediately prior to blasting.
	(v) detail measures to be taken to minimise disruptions from blasting, including any road closures agreed in accordance with Condition 25, and management of impacts on local traffic and pedestrian movements;	YES	(iii) The Blast Management Plan 2001 addresses minimisation of disruptions caused by blasting in Section 7.3. John Renshaw Drive road closure only occurs for a maximum of 10 minutes at the time of any blast in accordance with the RTA Road Occupancy Licence,
	(vi) specify procedures for ensuring that the occurrence of concurrent blasts with the adjoining coal mine operators is avoided; and	YES	The Blast Management Plan 2001 addresses timing of blasts in Section 7.4.
	(vii) identify procedures for notifying landowners/occupiers within 2 km of the site of the general blasting program and for notifying landowners or occupiers within 500m of blasting events (or any reduced area approved by the Director-General under Condition 25(5)) prior to blasting occurring.	YES	The Blast Management Plan addresses Notification of blasting events to land owners in Section 7.5. Blast notification is provided to landowners within 2km of the blast area. Newcastle Fairfax and the chicken farms are advised prior to each blast.
28	The Applicant shall not blast if weather conditions indicate that air blast overpressure levels are likely to be exceeded at residences not owned by the Applicant.	YES	The meteorological station located at the administration building at the Donaldson Mine provides continuous weather data and wind speed. Suitability of meteorological conditions is checked prior to each blast.
29	The Applicant shall report on blasting practices (including any trial blasting), weather data and the results of blast emissions monitoring in the six-monthly environmental monitoring reports and in the AEMR.	YES	Blast monitoring data and meteorological conditions were reported in the Monthly Monitoring Reports prepared by Hunter Acoustics and the blast monitoring results are reported in the AEMR's.
30	The Applicant shall revise the Blast Management Plan as necessary and provide an updated Plan five years after commencement of mining to the Director-General, the independent noise expert, EPA, DMR, Councils and the Community Consultative Committee.	YES	The Blast Management Plan was revised and submitted to the DoP on 16 July 2007. Approval from DoP was received on 17 July 2007.

Blasting Impacts				
31	Prior to the commencement of blasting, the Applicant shall undertake baseline structural surveys of all buildings and structures within 1.5 kilometres of blasting locations, unless it can be demonstrated to the satisfaction of the Director-General in consultation with DMR that surveys of certain properties are unnecessary because blasting damage is unlikely to occur to those properties. In conducting these structural surveys, the Applicant shall ensure that: (i) the surveys are carried out by a technically qualified person, as agreed in consultation with the Director-General and relevant landowners; and (ii) a copy of any inspection report (including video or photographs, if requested), certified by the person who undertook the inspection, is supplied to the relevant property owner within 14 days of receipt of same.	YES		Two consultants - Burke Engineering Services and Geoff Craig & Associates, were offered to building owners for the structural survey reports in 2000. All the required surveys of residences had been conducted when blasting commenced at the mine site, except for buildings on the Steggles property (as per a commercial agreement with Steggles). The survey of ABAKK House at the western end of the property was carried out later when the Donaldson Mine operations progressed to the west. Donaldson Coal corresponded with ABAKK Pty Ltd in 2007 in relation to three dwellings and infrastructure that would be within 1500m of the area of blasting at the Donaldson Mine and arranged for structural inspections. A copy of the structural survey reports were provided to the property owners for each residence/structure.
32	In the event that a landowner or occupier considers that blast emissions from the development may have affected the material condition of their property, the landowner may make a written request to the Director-General for an independent dilapidation assessment. If the Director-General, in consultation with the DMR, is satisfied that an independent investigation is required, the Applicant shall ensure: (i) the survey is carried out by a technically qualified person, as agreed in consultation with the Director-General and the relevant landowners or occupiers; and (ii) a copy of any inspection report (including video or photographs, if requested), certified by the person who undertook the inspection, is supplied to the relevant property owner within 14 days of receipt of same.		d at the time nvironmental	No requests for structural surveys have been received during this reporting period.
33	Where a dilapidation assessment concludes that structural damage has occurred as a result of blast emissions, the Applicant shall undertake immediate preventative and/or remedial measures at its expense.	YES		No dilapidation assessments have been requested during this reporting period.
Newcastle Herald	's Printing Facilities at Holmwood Business Park			

34	Prior to commencement of mining, the Applicant shall: (i) conduct ambient vibration monitoring adjacent to (on the floor) and if required, on the most vibration-sensitive component of the printing facilities in order to establish both the levels of ambient vibration generated by the operation of the Printing Facility itself and that of any other nearby vibration sources; (ii) provide a detailed report on the monitoring procedures and the monitoring results and findings to the Newcastle Herald upon completion of the survey; (iii) meet with Herald representatives to discuss the results of the survey and determine whether the initially agreed limit of 0.3 mm/s is appropriate; and (iv) design initial blasting for compliance with a peak particle velocity vibration criterion of 0.3 mm/s adjacent to or on the Printing Facility, unless a more appropriate limit is mutually agreed.	YES	Blast Vibration Assessment was conducted for the Newcastle Fairfax Printing facility in 2001. The report results established the ambient vibration levels at the site. Discussions with Fairfax in 2001 resulted in an agreement that the vibration criteria be 3 mm/s ppv. Correspondence in relation to the 3mm/s ppv was received by Donaldson and DUAP advised of the change on 18 December 2001.		
35	The Applicant shall monitor the impacts of blasting on the Printing Facility throughout the life of the mine, at a mutually agreed location in or adjacent to the Printing Facility during every blast. The Applicant shall provide results of the monitoring to the Newcastle Herald and provide a summary in the AEMR.	YES	Blasts during this reporting period were monitored at Fairfax facility.		
Hunter Water Co	orporation Pipelines				
36	The Applicant shall ensure that blasting is undertaken in a manner that protects the Hunter Water Corporation pipeline, to the satisfaction of the Hunter Water Corporation.	YES	Consultation with HWC resulted in agreement of a peak particle velocity of 100mm/sec at the pipeline. Vibration monitoring has been conducted for each blast at monitors located along the pipeline corridor. No results have exceeded the blast criteria agreed between Donaldson Coal and HWC for the pipeline infrastructure during this reporting period.		
AIR QUALITY					
Air Quality Criteria					
37	The Applicant shall take all practical steps to manage the mine's operations so that the ambient air quality goals for total suspended particles (TSP) of 90ug/m3 (annual average) and the dust deposition goal of 4gm/m2 (annual average) are not exceeded as a result of the development when monitored at any monitoring location specified in the Air Quality Management Plan.	YES	The air quality results reported for the Donaldson Mine are compliant with the criteria in MCoA 37. The dust deposition criteria of 4gm/m2 and the TSP goal of 90ug/m3 have not been exceeded during this reporting period.		

Air Quality Mana	agement		
38	The Applicant shall prepare and implement an Air Quality Management Plan, containing strategies to manage the mine's contribution to dust deposition, TSP, PM10 and PM2.5 to the satisfaction of the Director-General, prior to the commencement of construction. The Applicant shall make copies of the Air Quality Management Plan available to the independent expert (Condition 48), EPA, Councils and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	The Air Quality Management Plan for the Donaldson Mine was finalised in November 2000 and presented to the CCC on 13 November 2000. The Air Quality Management Plan was reviewed in 2007 by Holmes Air Services and no revision was required.
	The Air Quality Management Plan shall: (i) identify potential sources of dust deposition, TSP and fine particulates (PM10 and PM2.5) and specify appropriate monitoring intervals and locations. The purpose of the monitoring is to evaluate, assess and report on these emissions and the ambient impacts with the objective of understanding the mine's contribution to levels of dust deposition, TSP and fine particulates in ambient air around the mine site;	YES	(i) Air Quality Management Plan addresses potential sources of dust emissions and presents an appropriate monitoring program in Section 2. The monitoring program was implemented and the results of the dust deposition, TSP, PM10 and DustTrak recording are presented in the AEMR's section 3.2.
39	(ii) provide the mine's monitoring plan having regard to local meteorology and the relevant Australian Standards, identifying the methodologies to be used, including justification for monitoring intervals, weather conditions, seasonal variations, selecting locations, periods and times of measurements;	YES	(ii) Air Quality Management Plan addresses the monitoring plan in Section 5.
	(iii) provide the design of any modelling or other studies, including the means for determining the contribution to dust deposition, TSP and fine particulates from the development;	YES	(iii) Air Quality Management Plan addresses modelling and other studies in Section 5.
	(iv) provide details of dust suppression measures for all sources of dust from the development (including the haul road and the rail loading site);	YES	(iv) Air Quality Management Plan addresses dust suppression measures in Section 6.
	(v) provide details of actions to ameliorate impacts if they exceed the relevant criteria; and	YES	Air Quality Management Plan addresses amelioration and mitigation measures for dust control in Section 7.
	(vi) provide the design of the reactive management system intended to reduce the day-to-day impacts of dust and fine particulates due to the mine's operation.	YES	Air Quality Management Plan addresses dust management procedures in Section 7.2, 7.4 and 7.5.
40	The Applicant shall ensure the prompt and effective rehabilitation of all disturbed areas as soon as practicable to minimise the generation of dust.	YES	Rehabilitation has progressively occurred on disturbed land at the Donaldson Mine overburden and backfill areas to minimise generation of wind blown dust, with revegetation established using local indigenous species.
41	The Applicant shall cease offending work at such times when the hourly average wind speed exceeds 5 metres per second and the operations are resulting in visible dust emissions blowing in a direction so as to cross onto public roads or lands not owned by the Applicant.	YES	The meteorological station installed at the Donaldson Mine site provides continuous reading of wind speed. Results are available instantly on computer at the Donaldson Mine site offices. Wind speed above 5 m/s triggers a response to stop work at the mine site until wind conditions return to below 5 metres/sec.

42 Air Quality Moni	The Applicant shall revise the Air Quality Management Plan as necessary and provide an updated Plan five years after commencement of mining and to the Director-General, independent air quality expert (Condition 48), EPA, Councils and the Community Consultative Committee.	YES	The Air Quality Management Plan and monitoring program was reviewed by Holmes Air Services in 2007 and it was concluded that the plan was adequate and did not require to be updated. The DoP accepted that the Air Quality Management Plan did not require revision following the review by Holmes Air Services.		
Zin Quanty Millin	The Applicant shall install, maintain and continuously operate				
43	a meteorological station in accordance with the relevant Australian Standards and to the satisfaction of the EPA. The meteorological station shall be installed within six weeks of the date of this consent and remain for the life of the mine. The Applicant shall analyse and report the meteorological data on a monthly basis to adequately characterise the site, and shall use the data collected by the wind monitoring and recording station to determine when and how the mine operation is to be modified in accordance with the Air Quality Management Plan and the Conditions of this Consent.	YES	Meteorological station installed at the Donaldson Mine site office in December 2000. Meteorological data is collected continuously and analysed monthly in the air quality reports prepared by Holmes Air Sciences.		
44	The Applicant shall install, maintain and operate dust deposition gauges in accordance with the relevant Australian Standards and to the satisfaction of the EPA. The dust deposition gauges shall be installed and operational within six weeks of the date of this consent and the Applicant shall determine the dust deposition rate in grams/m2/month in each calendar month so that any increases in dust deposition rates can be presented in the AEMR.	YES	Eleven (11) dust deposition gauges have been installed on the Donaldson Mine site, in accordance with Australian Standard. Dust deposition is analysed monthly and the data is presented by Holmes Air Services in a monthly report to Donaldson Coal		
45	(1) The Applicant shall install, maintain and operate an air quality monitoring network in accordance with the relevant Australian Standards and to the satisfaction of the EPA. The network shall be installed and operational within six weeks of the date of this consent and in each calendar year the Applicant shall determine the concentrations of TSP in g/m3 (annual average) and fine particulates (PM10 and PM2.5) in g/m3 (24 hour average and annual average) so that the contribution of the mine to regional ambient air quality can be presented in the AEMR. (2) The Applicant shall also participate in (and if appropriate contribute reasonable funds to) regional air quality studies conducted by or on behalf of the EPA or the Director-General.	YES	(1) See MCoA 44 above. All air quality meteorological data is stored on the air quality database at the Donaldson Mine site. High Volume Air Samplers (HVAS) have been installed at Bartter Enterprise site and Beresford Golf Course for collection of TSP, PM10 and PM2.5 particulate. (2) No approach has been made to Donaldson Mine in relation to regional air quality studies during this reporting period.`.		
Air Quality Acqu	isition	- ' '			
46 - 47		Not activated	l.		
INDEPENDENT MONITORING OF NOISE, VIBRATION OR DUST					
48-53		Not activated			
ACQUISITION PROCEDURE					
54-55		Not activated	l.		
INDEPENDENT	VALUATION	T			
56-59	56-59 Not activated.				
WATER					
Water Management					

	·		
60	The Applicant shall prepare and implement a Water Management Plan in consultation with DLWC, Councils, EPA and the Hunter Catchment Management Trust, and to the satisfaction of the Director-General, prior to the commencement of construction. The Applicant shall make copies of the Water Management Plan available to the EPA, DLWC, DMR, Councils, the Hunter Catchment Management Trust and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	The Water Management Plan 2000 was developed in consultation with the EPA, DLWC, Councils, Hunter Catchment Management Trust and to the satisfaction of the Director-General, prior to the commencement of construction. The Water Management Plan was reviewed in 2005 and a revision of the Plan occurred in 2008.
	The Water Management Plan shall include but not be limited to: (i) management of the impacts of the development on the quality and quantity of surface and groundwater, including water in dirty water dams and clean water diversion dams;		(i) The Water Management Plan addresses the management of impacts of the development on the quality and quantity of surface and ground water in Section 3.
	(ii) stormwater and general surface runoff diversion to ensure separate effective management of clean and dirty water;		(ii) The Water Management Plan addresses the management of impacts of the development on the quality and quantity of surface and ground water, in Section 3.3 and 3.4.
	(iii) stormwater management facilities designed to at least a 1:10 year storm design criteria;		(iii) The Water Management Plan addresses the stormwater management issues, in Section 3.3.
	(iv) identification of any possible adverse effects on water supply sources (both surface and groundwater) of landowners or occupiers from the development, and implementation of mitigation measures as necessary;		(iv) The Water Management Plan addresses possible adverse effects of the development on water supply sources, in Section 5.
	(v) identification of the fresh quality groundwater zones within the DA area and appropriate protection strategies;		(v) The Water Management Plan addresses the quality of groundwater zones within the DA area, in Section 6.
61	(vi) management of the impacts of the development on the quality and quantity of groundwater within 2 kilometres of the boundary of the DA area, with particular attention to mobilisation of salts and contingency plans for managing any adverse impacts;	YES	(vi) The Water Management Plan addresses the management of impacts on the quality and quantity of groundwater within 2km of the DA area, in Section 3 and 6.
	(vii) management of the impacts of the development on the quality and quantity of surface water discharged, including scheduling of mining operations to minimise the area excised from the catchment draining to Woodberry Swamp at any one time;		(vii) The Water Management Plan addresses the management of impacts on the quality and quantity of surface water discharged from the Donaldson Mine site, in Section 5.
	(viii) identification of a defined buffer zone between the mine pit and Four Mile Creek and measures to minimise the risk of blast-induced fractures in the buffer zone to prevent saline seepage from the rehabilitated landform toward Four Mile Creek in the post-mining period;		(viii) The Water Management Plan addresses the buffer zone and protection Four Mile Creek in Section 5.2.2
	(ix) procedures for the maintenance of drainage systems and water management structures; and		(ix) The Water Management Plan addresses the procedures for maintenance of drainage systems and water management structures in Section 4.2.
	(x) development of a strategy for the decommissioning of water management structures, including dirty water dams and clean water diversion dams, and long term management of the final void.		(x) The Water Management Plan addresses the strategy for decommissioning of the water management structures in Section 4.3.

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			The Water Management Plan
	The Applicant shall revise the Water Management Plan as		was reviewed in 2005 and
	necessary and provide an updated Plan five years after		Tasman Mine requirements
62	commencement of mining to the Director-General, EPA,	YES	included. The Plan was
	DLWC, DMR, Councils, the Hunter Catchment Management		further revised in 2008 to
	Trust and the Community Consultative Committee.		include the Abel Mine water
	•		management.

Water Monitorin	g				
63	The Applicant shall prepare and implement a detailed monitoring program for groundwater and surface water in consultation with the Department, DPI, and the Hunter-Central Rivers Catchment Management Authority, throughout the life of the mine and for a period of at least 5 years after the completion of mining, or other such period as determined by the D_G. The results of the monitoring shall be included in the AEMR (Conditions 114-116). The monitoring program shall contain: details of proposed monitoring sites, frequency and parameters to be tested; pre-mining baseline data; monitoring of surface water quality to detect any changes in ambient water quality between the mine site and the wetlands; monitoring of macroinvertabrates and vegetation in accordance with the protocols developed by the Hunter SIGNAL biological assessment criteria, with an assessment of inflows to the wetlands; monitoring of stream bank and bed stability; monitoring of stream bank and bed stability; monitoring of the volume and quality of water transfer between the Donaldson and Bloomfield operations; and a program for replacement of any monitoring bores destroyed by the development.	YES		(i) Water Quality Management Plan section 5.9 (ii) Water Quality Management Plan section 3. (iii) Water Quality Management Plan section 5.9 and 7 (iv) monitoring locations located upstream and downstream in the three creeks, using SIGNAL and OZRIVER assessment criteria. (v) Macro-invertebrate surveys include bank and bed stability. (vi) Continuous metering of water transfer volumes between the Donaldson and Bloomfield operations occurs. (vii) Four (4) monitoring bores destroyed as part of the mining operations. These will be replaced when the backfilling of the area is completed.	
64	Prior to 31 October 2005, the Applicant shall revise, and then implement any necessary changes in the monitoring program for groundwater and surface water to the satisfaction of the Director-General.	YES		The Water Management Plan was revised in 2005 under the Notification of Modification condition with comments received from DLWC and DoP and response from Peter Dundon & Associates.	
Water Supply					
65	On request of a landowner whose water supply from licensed bore holes or springs has been determined by DLWC at any time to have been affected by the project, the Applicant shall replace lost water supply with water of an equivalent quality and quantity to meet the landowner's requirements, to the satisfaction of DLWC.	Not activate	d at the time nvironmental		
EROSION AND SEDIMENT CONTROL					
66	The Applicant shall prepare and implement an Erosion & Sediment Control Plan for the development (including the haul road and the relocation of utilities and services) to the satisfaction of DLWC and submit the Plan to the EPA as part of applications for a licence under the Protection of the Environment Operations Act. The Plan shall be prepared prior to the commencement of work in the relevant areas. The Applicant shall make copies of all Erosion & Sediment Control Plan available to D-G, Councils and the CCC within 14 days of approval.	YES		Erosion and Sediment Control Plan was submitted to the EPA on 4 May 2000 as part of the application for Environment Protection Licence No. 11080. A review of the Erosion and Sediment Control Management Plan was conducted in 2005 following the DPI-MR inspection in May 2005, and the Plan revised.	

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67	The Erosion and Sediment Control Plan(s) shall include consideration and management of erosion and sedimentation of watercourses and water bodies, including Woodberry Swamp.	YES	The Erosion and Sediment Control Plan addresses the management of erosion and sedimentation of watercourses and waterbodies on the Donaldson Mine site, in Sections 4. Control of erosion and monitoring of water quality of watercourses and water bodies on the mine site and to the boundaries of the Donaldson property, results in management of impact from the mine on downstream habitats (e.g. Woodberry Swamp). Monitoring also includes assessment of bank and bed stability as part of the macroinvertabrate survey reports.
FLORA AND FA	I INA		reports.
	a Conservation Area		
2011 attitude outliet	- CONTRACTOR CANADA		(i) Figures 1 and 2 of the
68	Prior to the commencement of construction, the Applicant shall: (i) undertake a survey of potential Tetratheca Juncea habitat in the southwest portion of the site. The survey shall: (a) be undertaken by a suitably qualified botanist, with the assistance of a suitably qualified surveyor, both approved by the Director-General; (b) re-examine the outcomes of previous surveys; (c) be undertaken between the months of August and December (inclusive); (d) record the location of Tetratheca Juncea clumps on the ground using suitable tags and by using either theodolite and electronic measuring equipment or differential GPS; (e) investigate the occurrence of any native sonicating bee habitat within 500 metres of the Tetratheca Juncea population; and	YES	(1) Figures 1 and 2 of the Tetratheca Juncea Management Plan show the Southwest Conservation Area. (a) a T. Juncea survey of the Conservation Area was undertaken by Gunninah Environmental Consultants and the areal survey of the area was conducted by a qualified surveyor. (b) The results of previous T. Juncea surveys were assessed and collated with the current data for the preparation of the maps and T. Juncea Management Plan. (d) T. Juncea Clumps have been located using GPS and surveyed onto the site maps in the T.Juncea Management Plan. (e) Bee habitat is discussed in Section 5.2.2 of the T. Juncea Management Plan.
	(ii) establish a Conservation Area for the Tetratheca Juncea based on the findings of the survey. The Conservation Area shall include a 50 metre buffer. The boundaries of the Conservation Area shall be surveyed and marked by a suitably qualified surveyor, with the assistance of a botanist, using either a theodolite and electronic measuring equipment or differential GPS. No clearing, construction or mining shall commence until the boundary of the Conservation Area has been approved by the Director-General.		(ii) The southwest Conservation Area has been established with a 50 metre buffer to the closest area that may become part of the mine operations (see Figure 1 from the Flora and Fauna Management Plan). The area is pegged but not fenced.

69	The Applicant shall prepare a Management Plan for the Tetratheca Juncea Conservation Area in consultation with NPWS and to the satisfaction of the Director-General, prior to commencement of construction. The Plan shall be consistent with the Flora and Fauna Management Plan (Conditions 76-79); and include measures for fire management. The Applicant shall clearly mark the boundary of the Conservation Area and make provision for signage which specify that no dumping, clearing or other works are permitted in the Conservation Area. Such signage shall be replaced as required. The Applicant shall make copies of the Tetratheca Juncea Management Plan available to NPWS, Councils and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	NPWS provided correspondence advising they were satisfied that the T Juncea Management Plan in November 2000. The property boundary of the Conservation Area is fenced along John Renshaw Drive and the T.Juncea areas are pegged but not fenced or signed. (The presence of a fence or signage around the specific areas of T.Juncea would highlight their location and result in unwanted attention and possibly vandalism to the area). The current status of the Conservation Area indicates that there is no intrusion of work areas or other disturbance to the T.Juncea locations. Weekly surveillance of the Conservation Area is conducted. A biologist monitors the T.Juncea areas
			to keep records of the status of growth and flowering.
BUSHLAND AR	EA		
70	Within six months of this Consent, or as otherwise agreed by the Director-General, the Applicant shall identify a bushland area(s) in the region that will adequately compensate for the impact of the mine on biodiversity, provide compensatory habitat and be managed for the primary purposes of conservation. The area shall be identified in consultation with NPWS and Councils and be to the satisfaction of the Director-General. Identification of the bushland area(s) shall include:	YES	See below
	(i) a detailed assessment of the current characteristics and ecological values of existing ecosystems affected by the mine, including the habitat of threatened species identified in the EIS as possibly occurring in the area and the Spotted Gum Ironbark community; (ii) identification of conservation objectives to be achieved by the establishment of the bushland area(s), with reference to the Regional Biodiversity Strategy and the principles of Ecologically Sustainable Development;		(i) A detailed assessment of the current flora and fauna and habitat values of the mine site was conducted by Barker Harle in 2001. (ii) The Bushland Area Management Plan was prepared and submitted to the Director-General in 2005 for approval. The Plan
	(iii) consideration of alternative locations within the region, including, but not limited to, the land proposed as compensatory area in the EIS (i.e. land adjoining the mine site); (iv) a detailed assessment of appropriate boundaries, size and shape of the bushland area(s), in relation to the characteristics, values and objectives; (v) consideration of appropriate management options necessary to protect the conservation values; and (vi) consideration of opportunities to incorporate cultural heritage conservation into the bushland area(s).	YES	included identification of conservation objectives. (iii) NPWS provided Donaldson Mine with a number of compensatory bushland areas to consider in 2001. Donaldson assessed inclusion of land around the mining lease, and have established the Conservation Area for bushland protection, within the mine lease area.

71	In identifying the bushland area(s), the following broad criteria shall be applied: (i) a ratio of 2:1 in terms of compensatory area to the area to be directly impacted by mining and associated infrastructure; (ii) the vegetation communities and habitat values of the bushland area(s) are to be broadly representative of the area which will be subject to mining and contain a similar suite of fauna species; (iii) the location of the bushland area(s) will aim to consolidate existing reserves in the lower Hunter Area; and (iv) reserve design criteria, including edge-to-area ratio, size and connectivity shall be taken into account.	YES	(i) The Donal property aroun area has been a buffer and conservation are (ii) The competed for bushland is as surrounds the and is represent vegetation compabitate present disturbed areas. (iii) The competed around the Donald is contiguous Ironbark-Spotte vegetative corrumaitland area.	d the mine retained as a compensatory area diacent to and mining area tative of the munities and at on the consatory area addson Mine with the d Gum
	Upon approval of the identified bushland area(s) by the Director-General, the Applicant shall: (i) secure care, control and management of the bushland area(s) prior to the commencement of mining; (ii) retain management and ownership of the land for a minimum of 36 years from the commencement of construction, unless other arrangements are agreed in accordance with Condition 73; and	YES	(i) The bushland the mine operation by Donaldson managed as overall land strategies. (ii) See above.	ons is owned Mine and part of the
72	(iii) prepare and implement a Management Plan for that area in consultation with NPWS and to the satisfaction of the Director-General, during the period in which the Applicant is responsible for management. The Management Plan shall be consistent with the Flora and Fauna Management Plan (Conditions 76-79) and consider the integration of cultural conservation objectives and management. The Applicant shall make copies of the Management Plan available to NPWS and the Community Consultative Committee within 14 days of approval by the Director-General. For the purposes of the Conditions of this Consent, the bushland area(s) approved by the Director-General shall be known as the Bushland Conservation Area until the completion of the period referred to in Condition 72(ii) and any Conditions relating to Conservation Areas shall apply to that area during that period. The Management Plan referred to in Condition 72(iii) shall be referred to as the Bushland Conservation Area Management Plan.	YES	(iii) The Conservation Management developed in with the NWPS submitted to t General on 31 C (Refer to MCoA	and the Plan he Director- october 2005.
73	The Applicant shall undertake negotiations with the NPWS and Councils to reach agreement on the long term tenure and management status of the Bushland Conservation Area. These negotiations must commence within six months of commencement of construction.	YES	Donaldson Co information management of bushland conse to NPWS in M undertook cons negotiations authorities. A Management Bushland Conse was presented to February 2005 revised and sub D-G in October	on the the proposed ervation area ay 2001 and sultation and with the Draft Plan of for the ervation Area to the D-G in and the Plan mitted to the
74	Prior to 31 October 2005, the Applicant shall revise the Bushland Conservation Area Management Plan to compensate for the extension of the disturbance area in the vicinity of Weakleys Flat Creek, to the satisfaction of the Director-General, and provide an updated Plan to the DEC, Councils, and the Consultative Committee.	YES	The Draft Conservation Management revised in Octo submitted to D October 2005.	

In November 2005 the DoP released the Draft Lower Hunter Regional Strategy (LHRS) which identified some of the Donaldson land and adjoining lands as intermodal freight facility, and vegetation corridors for future conservation, the most significant of which was the Stockton to Watagan Range corridor that encompasses part of the Donaldson land. Studies by DEC during 2006 in preparation for the Draft Lower Hunter Conservation Plan (LHCP), which was to be released together with the final LHRS, identified parts of the Donaldson land for conservation reserve and biobanking investment (NAPS Map). The identified conservation land does not align exactly the Donaldson with Bushland Conservation Area. Donaldson, along with other Lower Hunter major landowners, was formally requested by DEC to consider dedication of lands for conservation in the reserve system prior to announcement of the final LHRS and Draft LHCP. Donaldson presented a formal proposal to DEC in late 2006, and discussions with DEC are continuing for a major portion of the Donaldson land to be dedicated as conservation reserve or nominated as Biobanking investment area. The likely outcome of the intensive investigations described above is that some 400-500 hectares of the Donaldson land may be placed in permanent conservation (via either the reserve system or biobanking) and the remainder of the land will be zoned consistent with the final LHRS (yet to be finalised). Flora and Fauna Management

75	The Applicant shall bear the reasonable costs of the appointment by the Director-General of an independent flora and fauna expert(s) to assist in the implementation of the Conditions of this Consent. The independent expert(s) shall: (i) be selected in consultation with the applicant; (ii) assess and advise the D-G on the proposed Conservation Areas and Management Plans; (iii) assess and advise the D-G on the proposed bushland area(s); (iv) assess and advise the D-G on the proposed Flora and Fauna Management and the Rehabilitation Plan; (v) assess and advise the Director-General on the monitoring of flora and fauna management and rehabilitation.	Planning NSW - condition of approval	Robert Payne was commissioned as an independent flora and fauna expert by Director-General to assess and advise on the flora and fauna management for the Donaldson Mine proposed conservation areas and flora and fauna management plans.
76	The Applicant shall prepare and implement a Flora and Fauna Management Plan for the mine site (in addition to the management plans for specific Conservation Areas), in consultation with DLWC, NPWS and Councils, and to the satisfaction of the Director-General, prior to the commencement of construction. The Applicant shall make copies of the Flora and Fauna Management Plan available to DLWC, NPWS, Councils and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	The Flora and Fauna Management Plan was prepared and approved by DUAP in December 2000. The Flora and Fauna Management Plan was implemented for the Donaldson Mine site and the Plan reviewed in 2007. The flora and fauna monitoring programs have been conducted and results summarised in the AEMR's.
77	The Flora and Fauna Management Plan shall include but not be limited to: (i) additional surveys to more precisely identify the distribution of known and potential nest and roost trees for owl species. The surveys shall: (a) be undertaken by a person experienced in the identification of owl nest and roost trees, approved by the Director-General; and (b) record the location of known and potential nest and roost trees on the ground by marking the tree and by using either theodolite and electronic measuring equipment or differential GPS; (ii) a vegetation map delineating major vegetation communities, topographic features and the location of threatened species habitats, including potential and known owl nest and roost trees;	YES	(i)(a) Additional surveys of owl habitat were conducted by Rod Kavanagh on the Donaldson Mine site during Sept - Oct 2000. The Kavanagh Report is included in Appendix F and G of the Flora and Fauna Management Plan. (ii) Figures 3 and 4 in the Flora and Fauna Management Plan present vegetation communities and locations of threatened species habitats on the Donaldson Mine site.

(iii) details of measures to manage the impacts of the development, including: (a) restoration of degraded areas; (b) management of invasive weeds and feral animals; (c) establish an appropriate hazard reduction regime in keeping with the ecological values of the area; (d) revegetation and provision of compensatory areas of equivalent ecological and habitat value where necessary; and (e) strategies to provide increased security for existing habitats and communities;	(iii)(a) Degraded area restoration procedures are presented in the Rehabilitation Plan Dec 2000 section 4.3.7. (iii)(b) Weed management and feral animal control are presented in the Rehabilitation Plan sections 5.2 and 5.3. (iii)(c) Hazard reduction addressed in the Rehabilitation Plan section 5.4, and the Bushfire Management Plan. (iii)(d) See comments on MCoA 71 to 74. (iii)(e) Protection strategies for existing habitats and communities include preclearing surveys of all areas to be disturbed, fenced perimeter of the mine lease area, and the Flora and Fauna Management Plan section 4.1 and 4.2.
(iv) details of measures to manage the impacts of environmental management on flora and fauna, including the impact of erosion and sediment control measures and hazard reduction burning;	(iv) The priorities for action in relation to protection of flora and fauna are outlined in section 4.3.1 (Erosion and Sediment Control) and section 4.3.6 (Bushfire Management Regime) of the Flora and Fauna Management Plan.
(v) priorities for action and a timetable for all works outlined in the Plan; and	(v) The priorities for action in relation to protection of flora and fauna are outlined in section 4.4 of the Flora and Fauna Management Plan.

	(vi) a program to monitor flora and fauna impacts on undisturbed portions of the mining lease area and downstream environments (such as the Woodberry Swamp). The program shall extend for the life of the mine and for a period thereafter as approved by the Director-General, and include: (a) justification for monitoring intervals and locations; (b) monitoring of the presence and persistence of native flora and fauna species over time, particularly threatened species; and (c) monitoring the effectiveness of management measures.		(vi) Section 5 (Monitoring and Reporting) of the Flora and Fauna Management Plan describes the proposed monitoring programs. A detailed survey and reporting of the flora and fauna on the Donaldson Mine site was conducted during Sept and Oct 2001 by Barker Harle. The quadrants used for the surveys were recorded and the report provides a detailed quantitative description of the flora and fauna species present within the boundaries of the Donaldson property. As the Donaldson property has no boundary with the Woodberry Swamp the surveys did not extend to the Woodberry Swamp. There are a large number of developments downstream of Donaldson that have the potential to affect the environment of the swamp. The surveys to the boundary of the Donaldson property will specifically identify potential impacts from the			
78	The Flora and Fauna Management Plan shall also include a Rehabilitation Plan that details the measures to be undertaken to progressively rehabilitate disturbed areas of the mine to replicate the original vegetation cover that existed before mining occurred. The Applicant shall be responsible for the management and monitoring of the rehabilitated mine site until such time as the Director-General agrees that restoration has been successful.	YES	mine activities. The Rehabilitation Plan was included in the Mining Operations Plan (MOP) for the June 2006 to May 2012 period for the Donaldson Mine. The Rehabilitation Management Plan is now Appendix 3 of the Landscape			
79	The Applicant shall revise the Flora and Fauna Management Plan as necessary and provide an updated Plan five years after commencement of mining to the Director-General, NPWS, Councils and the Community Consultative Committee.	In progress	Management Plan 2008. The Flora and Fauna Management Plan was reviewed by Ecobiological in March 2007 and a Revised Flora and Fauna Management Plan submitted to DoP on 17 July 2007. DoP approved the revised Plan on 25 July 2007.			
80	The Applicant shall participate in (and if appropriate, contribute such reasonable funds as determined by the Director-General in consultation with NPWS) research into the Powerful Owl and Masked Owl habitat requirements in the region, and the habitat requirements and lifecycle of Tetratheca Juncea.	YES	Donaldson Mine supported projects by the University of Newcastle with financial and technical help for: Deborah Landenberger - 2 year Honours project 'Defining the Niche of T. Juncea'; and Adam Blundell with Rod Kavanagh during 2002-2003 for 'Comparing Ecology of Powerful Owl in Disturbed and Undisturbed Environments'. Both these projects have been completed.			
HERITAGE						
Heritage Statutor	y Requirements	Heritage Statutory Requirements				

81	Prior to commencement of construction, the Applicant shall: (i) comply with the statutory requirements of NPWS in relation to works affecting Aboriginal sites; and (ii) undertake a targeted archaeological survey of the slopes component within the mining impact area in cooperation with the Aboriginal community. Any Aboriginal sites located will be recorded, the significance of the sites assessed, and management strategies for the sites identified.	YES	Management of the aboriginal heritage sites occurs in accordance with the Aboriginal Sites Management Plan and the status of management is reported in the AEMR.
82	If, during the course of construction, the Applicant becomes aware of any heritage or archaeological material, all work likely to affect the material shall cease immediately and the relevant authorities consulted about an appropriate course of action prior to recommencement of work. The relevant authorities may include NPWS, the Heritage Office, and the Local Aboriginal Land Councils. Any necessary permits or consents shall be obtained and complied with prior to recommencement of work.	YES	Section 90 Consents to Destroy under the National Parks and Wildlife Act, were obtained for Aboriginal artefact areas DMS1 on 22 April 2000 and ISF1 and ISF2 on 3 May 2000. No further Section 90 Consents have been required since that time.

Aboriginal Heritage Management						
83	Prior to commencement of construction, the Applicant shall establish an Aboriginal Conservation Area along Four Mile Creek and tributaries in accordance with a plan approved by the Director-General. The plan shall include: (i) identification of an appropriate boundary and the basis on which the boundary has been selected; (ii) a map at a scale of 1:1000 or larger which clearly delineates the Conservation Area boundary and specific features; and (iii) documentation of consultations with NPWS and Aboriginal community groups in relation to the definition of the Conservation Area.	YES	(i) A 50 metre buffer along Four Mile Creek as an Aboriginal Conservation Area (ACA) has been established by Donaldson Coal. The ACA boundary is shown in Figure 2.3 of the Aboriginal Sites Management Plan. (ii) Maps of the Four Mile Creek Conservation Area and other Conservation Areas (1:1000 scale) have been prepared by Donaldson Coal for the Donaldson Mine area. (iii) Consultation with the Mindaribba Aboriginal Local Land Council was held during the preparation of the Aboriginal Sites Management Plan. NPWS consultation and correspondence was available on file.			
84	The Applicant shall prepare and implement an Aboriginal Sites Management Plan in consultation with the Aboriginal community, Councils and NPWS, and to the satisfaction of the Director-General, prior to the commencement of construction. The Applicant shall make copies of the Aboriginal Sites Management Plan available to the Director-General, Aboriginal community, Councils and the Community Consultative Committee within 14 days of approval by NPWS.	YES	An Aboriginal Sites Management Plan was prepared prior to commencement of mining operations in 2000, with Supplementary Plans prepared for Years 2 to 5 of the operations. The Aboriginal Sites Management Plan has been submitted to the relevant authorities within 14 days of approval by the NPWS. The Aboriginal Sites Management Plan has not required revision since 2005.			

85	The Management Plan shall include, but not be limited to: (i) documentation of consultation with the relevant Aboriginal community groups to identify any outstanding concerns they may have with the project and a clear statement about how these concerns will be addressed, including any action to be taken; (ii) identification of conservation objectives for the site as a whole and for the Conservation Area specifically; (iii) a program to monitor the impacts of the development on the Conservation Area, including justification for monitoring locations and intervals; (iv) strategies to achieve conservation objectives, including an access policy; (v) the provision of fencing to permit faunal movement and the removal of fencing within six months of completion of mining; (vi) further investigations; and (vii) long term management requirements upon completion of mining.	YES	(i) Consultation with the Mindaribba Aboriginal Local Land Council is addressed in the Plan with relevant correspondence attached in Appendix 1 of the Plan. (ii) Conservation objectives are addressed in section 1.3 of the Aboriginal Sites Management Plan. (iii) Monitoring of the Conservation Area is outlined in section 2.1 and 3 of the Aboriginal Sites Management Plan. The location of the monitoring datum points are illustrated in Figure 2.4 of the Plan. (iv) Strategies to achieve the conservation objectives are outlined in section 2 of the Aboriginal Sites Management Plan. (v) The boundary of the Mining lease area and the Donaldson owned land is fenced. (vi) The mining lease area was re-surveyed for Year 2 to 5 of the mining operations. Ongoing monitoring and surveys will occur prior to disturbance of any new areas required for mining.
86	The Applicant shall revise the Aboriginal Sites Management Plan as necessary and provide an updated Plan five years after commencement of mining to the Director-General, NPWS, Councils and the Community Consultative Committee.	YES	The Aboriginal Sites Management Plan was subjected to annual review until 2005 and amendments top the Plan made by Umwelt as required. The Plan has not required revision since 2005.
WASTE		I. I	•
87	The Applicant shall prepare and implement a Waste Management Plan in consultation with EPA, DMR and the Hunter Waste Planning and Management Board, and to the satisfaction of the Director-General, prior to commencement of construction. The Applicant shall make copies of the Waste Management Plan available to Councils and the Community Consultative Committee within 14 days of approval by the Director-General.	YES	The Waste Management Plan was prepared prior to commencement of construction of the mine. The Plan was submitted to DUAP and approved on 10 October 2000. Copies of the Waste Management Plan were distributed to the Councils and the CCC, within 14 days of approval by the Director-General.

88	The Waste Management Plan shall include, but not be limited to the management of the mine site to prevent dumping of waste; and the management and treatment of Potentially Acid Forming waste.	YES	Management of waste streams including overburden, coarse rejects material and fine reject material is included in section 7 of the Waste Management Plan. The management and treatment of potential acid forming (PAF) material is addressed in the geotechnical report and there is ongoing assessment of PAF material to ensure application of best practice management options.
89	The Applicant shall meet the requirements of Councils, EPA and Hunter Water Corporation with respect to water and sewer.	YES	Potable water for use on the mine site is supplied from the Hunter Water Corporation. There is no discharge to sewer from the site operations. All ablutions are connected to onsite biocycle systems.
VISUAL AMEN	ITY		
Landscaping			
90	The Applicant shall provide a minimum of 50 metres of landscaping between the outer edge of the bund wall and the edge of John Renshaw Drive. The 50 metres may include landscaping within the road verge if agreed by Cessnock Council.	YES	The Landscape Management Plan has been implemented with revegetation of the 50m strip along the power-line easement between John Renshaw Drive and the earthern bund on the edge of
91	The Applicant shall, within three months of the date of this Consent, or within such further period as Councils may require, submit for the Councils' approval a detailed Landscaping Plan covering all land within the proposed mining area (including the haul road and transmission line easements) and road reserve along the frontage to John Renshaw Drive. The Applicant shall engage a suitably qualified person to assist in the landscaping plan.	YES	the high-wall of the open cut. The Landscape Management Plan was reviewed and revised in March 2008. The 2008 Landscape Management Plan is an integrated plan for all the Donaldson Coal projects (i.e. the Donaldson Mine, Tasman Mine and Abel Mine). The 2008 Plan has the Rehabilitation Management Plan, Final Void Management Plan, appended to provide an overall strategy for the mines.
92	The Landscaping Plan shall be consistent with the Environmental Management Strategy and include: (i) provision for the establishment of trees and shrubs and the construction of mounding or bunding along the planned highwall and any other areas identified as necessary by the Councils for the maintenance of satisfactory visual amenity and the re-establishment of flora and fauna habitats and corridors; (ii) appropriate erosion control and sediment control practices for earthworks associated with the landscaping;	YES	The Landscape Management Plan 2000 addresses the establishment of trees and shrubs for visual amenity and re-establishment of flora and fauna corridors in Section 4.3. The Landscape Management Plan 2000 addresses erosion and sediment control in Section 4.3 and refers to the Erosion and Sediment Management Plan.
	(iii) details of the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications). Buildings and structures shall be designed and constructed so as to present a neat and orderly appearance and to blend as far as possible with the surrounding landscape; and		The Landscape Management Plan 2000 addresses the visual appearance of buildings, structures, facilities and works in Section 4.0.

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	(iv) details, specifications and staged work programs to be undertaken, including a maintenance program of all landscape works, building materials and cladding.			The Landscape Management Plan 2000 addresses the staged work programs for maintenance program of all landscape works, building materials and cladding in Section 4.2
93	The Applicant shall implement the approved Plan in accordance with Councils' requirements and make copies available to the Community Consultative Committee within 14 days of approval by Councils.	YES		Copies of the Landscape Management Plan 2000 were provided to the CCC following approval by the Councils 9 March 2000. The revised Landscape Management Plan was submitted to the CCC in 2008.
94	The Applicant shall plant screening vegetation on properties at higher elevation and with views across the mine site in the Black Hill area if requested in writing by the landowner, within three months of that request. The species, density and location of the plantings shall be determined in consultation with the landowner.	Condition not activated at the time of the audit.		
95	The Applicant shall lodge a landscaping bond with Cessnock Council, to a maximum of \$10,000 at any one time, for landscaping during the life of mine. This bond does not affect rehabilitation works covered by the Mining Act.	YES		Landscaping bond of \$10,000 lodged with the Cessnock City Council on 19 April 2007.
Lighting				
96	The Applicant shall screen or direct all onsite lighting and vehicle lights away from residences and roadways to the satisfaction of Councils. All screening to be completed prior to commissioning of the coal preparation plant and associated facilities.	YES		Lighting from the mine activities has not given rise to complaints. No lighting is used on high points of the overburden emplacement areas at night and no light scatter occurs to roadways or residential areas from the Donaldson Mine operations.

HAZARDS, RISKS AND SAFETY					
THE ROOM NOT	The Applicant shall: (i) provide adequate fire protection works on site. This shall include one fully equipped fire fighting unit on standby and hazard reduction works at a time determined by the relevant Council, with particular attention to boundaries of adjoining land holdings;	YES		(i) Fire fighting equipment on includes a 38,000L water cart with capability for fire fighting. Meetings have been held between Donaldson Mine and the Cessnock City Council / Thornton Fire Brigade in relation to access to the mine site in case of fire. Donaldson Coal will make equipment available if required at short notice to construct fire-breaks or access to reach the seat of any fire on Donaldson property.	
97	(ii) submit an annual report on fire management activities to the local Bush Fire Management Committee; and	YES		(ii) A Bushfire Management Plan for the areas owned by Donaldson Coal was prepared in 2004 and submitted to the Rural Fire Service for review. Following a site inspection the RFS provided comments and the Plan was updated and finalised. A report on controlled burnoff at the Donaldson site was forwarded to the RFS for inclusion in the Bush Fire Management Committee folder in Oct 2005. Hazard burning is conducted on the Donaldson Mine site and reported to the Bushfire Management Committee by the RFA. Mechanical works along the southern and eastern sections of the Avalon Estate at Thornton is also carried out annually.	

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	(iii) ensure that all dangerous goods and materials stored on site are stored in accordance with the relevant Australian standards.	YES	(iii) The bulk storage for dangerous goods includes: T1 Above ground tank – approx. diesel 60,000L at the maintenance workshop area and T2 Above ground tank - diesel 40,000L in an earthern bunded above the MaxxHire workshop compound. The fuel farm facility is approved as a bulk storage facility for hazardous materials under Workcover requirements. Storage of lubricants and waste oil is in drums and small above ground tanks that are less than the volume required to be notified under the Occupational Health and Safety (Dangerous Goods) Regulation 2005.
UTILITIES AND) SERVICES	I	
98	The Applicant shall consult with affected service authorities and make arrangements satisfactory to those authorities for the protection or relocation of utilities and services (such as transmission lines and pipelines) at the Applicant's expense, prior to any existing utilities or services being affected by mining activity. Relocation of utilities and services shall be conducted in accordance with the relevant Management Plans and the Erosion and Sediment Control Plan(s).	YES	The Energy Australia 11kV power-line was relocated along an easement adjacent to the John Renshaw Drive boundary of the mine lease, in 2002. Part of the Hunter Water Corporation water pipeline was relocated for the progression of the Donaldson Mine, in accordance with the MOP. Telstra lines off the new intersection on John Renshaw Drive were relocated in 2006.
TRANSPORT A	ND ACCESS		
99	Prior to commencement of construction, or as otherwise agreed by the Councils, the Applicant shall design, construct and seal the private haul road and access road to the satisfaction of the Councils, and with consideration of the impact on the fragmentation of fauna habitat and fauna movement.	YES	The internal haul road was constructed from Donaldson Mine to Bloomfield CPP and Coal Loader in 2001. Cessnock City Council advised it did not require to approve the road construction as it was an internal haul road. The Flora and Fauna Management Plan included pre-clearing protocol, road design and general measures covering erosion and sediment control, removal of weeds and rubbish, and incident reporting that were applied to the construction of

100	No coal shall be hauled on public roads.	YES	All coal from the Donaldson Mine is transported to the Bloomfield CPP by the internal road and the product coal is transported by rail from the Bloomfield Coal Loader to Newcastle.
			No coal is transported on public roads.
			A Development Application was submitted to the Cessnock City Council for the John Renshaw Drive intersection in Nov 2001.
101	The Applicant shall carry out intersection improvements as determined necessary by the Regional Traffic Committee as a result of the development and by such times as directed by the Regional Traffic Committee.	YES	The Hunter Regional Traffic Committee considered the DA and recommended a number of changes, and the plan was amended and resubmitted to the Council. The Council re-exhibited the DA and granted consent in July 2003.
			The intersection from John Renshaw Drive to the Donaldson Mine access road was completed in accordance with the consent.
	If closure of John Renshaw Drive is agreed by the Regional Traffic Committee under Condition 25(4), the Applicant shall: (i) pay \$20,000 to Cessnock City Council to upgrade the alignment and surface of the unsealed western end of Black Hill Road;		The \$20,000 contribution was provided to the Cessnock City Council in November 2004 for the upgrade of the western end of Black Hill Road. The improvements to Black Hill Road were completed by Cessnock City Council.
102	(ii) provide a water cart and apply water to the unsealed western end of Black Hill Road to the requirements of Cessnock City Council prior to each closure of John Renshaw Drive for blasting; and (iii) prepare a Traffic Management Plan for the approval of the RTA in relating to the closure of John Renshaw Drive during blasting.	YES	The improvement of the Black Hill Road intersection with a John Renshaw Drive turning lane, was under construction at the time of this audit (i.e. April 2010).
			Donaldson has a current Road Occupancy Licence for the closure of John Renshaw Drive during blasting.
	The Applicant shall provide for signalling of the Planwfold		Freightcorp correspondence provided options for implementation of safe working procedures for the rail loop to satisfy MCoA 103.
103	The Applicant shall provide for signalling of the Bloomfield rail loop to the satisfaction of Freight Corp prior to the commencement of mining.	YES	Bloomfield upgraded the rail system alarm signals on the Entry road to the mines, from the old key system. The management of trains on the loop has been upgraded with implementation of safe work practices.
INITIAL COAL	WASHING	<u> </u>	I .

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104	Upon commencement of coal extraction, the Applicant shall initially make use of the coal preparation plant (CPP) at the adjoining Bloomfield coal mine for up to two years from commencement of mining or such other period as approved by the Director-General. This will allow the Applicant to: (i) trial the washing of Donaldson coal to assist in the determination of its washing characteristics; and (ii) commence the earliest possible coal extraction at Donaldson, and hence hasten project completion.	YES	Approval for the ongoing use of the Bloomfield CPP is now in place under the Abel Mine consent with an extended agreement between Bloomfield Coal and Donaldson Coal.
105	The haulage route for raw coal from the Donaldson pit to the Bloomfield CPP shall be the same as that proposed for haulage of product coal from the proposed Donaldson CPP to the existing Bloomfield rail loading facility up to the point of intersection with the Bloomfield Mine access road, and thence westward along the Bloomfield Mine access road to the CPP, unless otherwise agreed to with the owners of Bloomfield. However, any variation to the route shall be considered to determine whether a modification to this Consent is required to enable the variation.	YES	Donaldson Coal constructed an internal haul road to transport ROM coal to the Bloomfield CPP, the road alignment crossing Four Mile Creek.
106	The Applicant shall notify the Director-General within eighteen months of the commencement of mining as to the results of the Bloomfield washery trials.	YES	See comment on MCoA 104.
	NVOLVEMENT		
Community Con	sultative Committee	T	TI 000 1111 1
107	The Applicant shall establish a Community Consultative Committee which shall be chaired by an independent chairperson approved by the Director-General. Selection of representatives shall be agreed by the Director-General and include (unless otherwise agreed by the Director-General) two representatives from the Applicant (including the Environmental Officer), four community representatives (including a representative of the local Aboriginal Community) and representatives of the local Councils. Representatives from relevant government agencies (including DUAP) may be invited to attend meetings of the Committee as required.	YES	The CCC was established on 30 May 2000 and meetings have been held regularly since that time. Members of the CCC are: Independent Chairperson – Hon Milton Morris Donaldson Mine representatives – Alick Osborne - Director Donaldson Coal and Phillip Brown Environmental Manager Community Representatives – Mr Stephen Wright Dr Greg Steele
108	The Committee may make comments and recommendations about the implementation of the development. The Applicant shall ensure that the Committee has access to the necessary plans and/or studies for such purposes. The Applicant shall consider the recommendations and comments of the Committee and provide a response to the Committee and the Director-General.	YES	Management Plans have been provided to the CCC for comment and information. Discussion of management plans has occurred at the CCC meetings.
109	The Applicant shall, at its own expense: (i) provide appropriate facilities for meetings of the Committee;	YES	CCC Meetings have been held at Donaldson Mine offices. Donaldson have arranged and provided the required material and administrative backup for the meetings.
	(ii) nominate a representative to attend all meetings of the Committee;	YES	Donaldson Coal nominated representative to attend all meetings is the Environmental Manager-Phillip Brown.

	(iii) ensure that the first meeting is held prior to commencement of construction, that meetings are held at least every six months for the first 24 months from the date of the mining lease and at least annually thereafter;	YES	The first meeting of the CCC was held on 30 May 2000 prior to commencement of construction and subsequent meetings have been held on a regular basis. The meetings have been arranged by the Independent Chairperson as required.
	(iv) provide to the Committee regular information on the progress of the work and monitoring results;	YES	Reports on project status, monitoring results and AEMR's and complaints are provided to the CCC and
	(v) promptly provide to the Committee such other information as the Chairperson of the Committee may reasonably request concerning the environmental performance of the development; and	YES	Material is provided to the CCC as and when requested as detailed in the CCC Minutes.
	(vi) provide reasonable access for site inspections by the Committee.	YES	Site inspections by members of the CCC to view the mine and rehabilitation areas, following CCC Meetings.
110	The Applicant shall establish a trust fund to be managed by the Chairperson of the Committee to facilitate functioning of the Committee, and pay \$2000 per annum to the fund for the duration of mining operations. The payment shall be indexed according to the Consumer Price Index (CPI) at the time of payment. The first payment shall be made by the date of the first Committee meeting.	YES	A trust fund for the functioning of the CCC was established in May 2000 and has been managed by the Independent Chairperson. Donaldson Coal provides all the requirements for the CCC Meetings with any additional funding reported to be provided upon request by the Chairperson.

Community Info	rmation					
111	The Applicant shall, in consultation with Councils, ensure that the local community is kept informed of the progress of the project, including prior notice of: (i) the nature of works proposed for the forthcoming period; (ii) hours of construction; (iii) a 24 hour contact telephone number; (iv) any traffic disruptions and controls; (v) proposed blasting program, and any changes to the program; (vi) work required outside the normal working hours; (vii) individuals' rights under the Conditions of this Consent (such as the rights for acquisition or independent monitoring) and mechanisms proposed to be used to safeguard the community and individual properties against adverse impacts from the development.	YES	Since June 2003, community information has been made available on the Donaldson website.			
112	The Applicant shall ensure that the AEMR, minutes from Community Consultative Committee meetings and results and interpretation of monitoring required by this Consent are placed on the Internet for public information within 14 days after they are available. The Internet address is to be made publicly available.	YES	Donaldson website has been established and information on the CCC, monitoring and company status and activities is available on the site, including Minutes of the CCC Meetings, AEMR's and any project Newsletters.			
Complaints						
113	 (1) The Applicant shall record details of all complaints received and ensure that a response is provided to the complainant within 24 hours. (2) If the Applicant's response does not address the complaint to the satisfaction of the complainant within six weeks, the Applicant shall refer the matter to an independent mediator (approved by the Director-General) and bear the costs of such mediation. The Applicant shall immediately carry out such works as agreed through the mediation process. (3) The Applicant shall make available a 3 monthly report on complaints to the Community Consultative Committee and to relevant government agencies and the Councils upon request; and include a summary in the AEMR. The report shall include the complaints that have been resolved with or without mediation. 	YES	(1) The Complaints Register is on a database held at the Donaldson Mine office and maintained by the Environment Manager. (2) This requirement of the condition had not been activated at the time of the audit. (3) A Complaints Report is prepared and presented to the CCC at each meeting. A summary of complaints/actions/status is presented in the AEMR's:			
ANNUAL ENVIRONMENTAL MANAGEMENT REPORT						
114	The Applicant shall prepare and submit an Annual Environmental Management Report (AEMR) throughout the life of the mine to the satisfaction of the Director-General. The AEMR shall review the performance of the mine against the Environmental Management Strategy and the Conditions of this Consent, and other licences and approvals relating to the mine. To enable ready comparison with the EIS's predictions, diagrams and tables, the report shall include, but not be limited to, the following matters:	YES	The AEMR's have been prepared in accordance with the Guidelines and submitted to the DPI/DMR.			

Donaldson Coal Mine

variance; (iii) results of all environmental monitoring required under this Consent or other approvals, including interpretations and discussion by a suitably qualified person; (iv) identification of trends in monitoring results over the life of the mine; (v) a comparison of the actual impacts with predictions made in the EIS and supporting documents; (vi) a review of the social impact of the mine, including mitigation works and acquisition; (vii) a listing of any variations obtained to approvals applicable to the subject area during the previous year; (viii) the outcome of the water budget for the year, the quantity of water used from water storages and details of discharge of any water from the site; (ix) rehabilitation report; and (x) environmental management targets and strategies for the next year, taking into a account identified trends in monitoring results.	YES	each AEMR taking account of the approved MOP. (vi) No acquisition requests have been made to the time of this audit. Mitigation measures are part of the normal mine operation. (vii) Approval status is summarised in section 1.2 of the AEMR. (viii) No discharge has occurred from the mine site during the 2007 to 2010 period. Water management is reported in section 2.8 of the AEMR. (ix) Rehabilitation progress is reported in section 5 of the AEMR. (x) Targets and strategies for the next 12 months are reported in Section 6 of the AEMR.
In preparing the AEMR, the Applicant shall: (i) consult with the Director-General during preparation of each report for any additional requirements; (ii) comply with any requirements of the Director-General or other relevant government agency and with any guidelines current at the time of reporting; and (iii) ensure that the first report is completed and submitted within 12 months of this Consent, or at a date determined by the Director-General in consultation with the DMR and the EPA.	YES	(i) No additional requirements for the AEMR's have been advised from the Director-General. The AEMR's have been prepared to satisfy the DMR Guidelines. (ii) see above
The Applicant shall ensure that copies of each AEMR are submitted at the same time to DUAP, EPA, DLWC, NPWS, Councils and the Community Consultative Committee, and made available for public information at Councils within 14 days of submission to these authorities. INDEPENDENT ENVIRONMENTAL AUDIT	YES	Copies of the AEMR's prepared for the Donaldson Mine have been submitted to the authorities following receipt of acceptance of the document by the DII (or DPI-MR) and the Director-General. The AEMR's have been prepared in accordance with the DMR Guidelines and submitted to the DII/DPI/DMR in accordance with the mining lease agreement.

2014/2015 ANNUAL ENVIRONMENTAL MANAGEMENT REPORT

	At 3 yearly intervals after the commencement of mining and at the completion of mining, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:	YES	An Independent Environmental Audit was conducted in April 2010 by Trevor Brown & Associates to fulfil the requirements of MCoA 117.
117	(i) be conducted by a suitably qualified, experienced and independent person whose appointment has been endorsed by the Director-General; (ii) be consistent with ISO 19011:2002 – Guideline for Quality and/or Environmental Systems Auditing, or equivalent updated versions of these guidelines; (iii) assess the environmental performance of the development, and its effects on the surrounding environment; (iv) assess whether the development is complying with the relevant standards, performance measures and statutory requirements; (v) review the adequacy of the Applicant's Environmental Management Strategy and Environmental Monitoring Program; (vi) and if necessary, recommend measures or actions to improve the environmental performance of the development, and/or the environmental management and monitoring systems.	YES	The April 2010 audit was conducted by Trevor Brown of Trevor Brown & Associates Applied Environmental Management Consultants. The conduct of the 2010 audit was consistent with the requirements of ISO19011. The environmental performance of the development was reviewed and comments are provided in Section 4 of this audit report. The development dewelopment demonstrated a high degree of compliance with the standards, performance measures and statutory requirements relevant to the development (v) Comment on the Environmental Management Strategy and Environmental Monitoring Program are provide in Section 3 of this report
118	The audit shall: (i) assess compliance with the requirements of this Consent, licences and approvals; (ii) review the effectiveness of the environmental management of the mine, and any mitigation works; (iii) be carried out at the Applicant's expense; and (iv) be conducted by a duly qualified independent person or team approved by the Director-General in consultation with the Councils.	YES	An Independent Environmental Audit was conducted in April 2010 by Trevor Brown & Associates to fulfil the requirements of MCoA 117 and 118 in place in 2010.
119	The Director-General may, after assessing compliance in accordance with this Consent and after considering any submission made by the EPA, DLWC, DMR, the Councils or the Community Consultative Committee on the report, notify the Applicant of any reasonable requirements for compliance with this Consent. The Applicant shall comply with those requirements within such time as the Director-General may require.	Noted	
COMPLIANCE			
120	The Applicant shall comply with all requirements of the D-G in respect of the implementation of any measures arising from the Conditions of this Consent. The Applicant shall bring to the attention of the D-G any matter that may require further investigation and the issuing of instructions from the D-G. The Applicant shall ensure that these instructions are implemented to the satisfaction of the D-G within such time that the D-G may specify. If necessary, the D-G may order the Applicant to cease work until non-compliance has been addressed to the satisfaction of the D-G.	Noted	

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121	The Applicant shall submit for the approval of the D-G compliance reports concerning the implementation of Conditions of this Consent as applicable: (i) before the commencement of construction works; and (ii) before the commencement of mining.	YES		Compliance Reports were prepared and submitted to DUAP for construction of the Donaldson Mine on 20 October 2000, and a Compliance Report was submitted to DUAP prior to commencement of mining works on 17 January 2001.
Y2K COMPLIAN	NCE			
122	One month prior to the commencement of operation of any automated system, included embedded systems used for operation, pollution control, monitoring and safety (including fire safety), the Applicant shall provide the D-G with a report confirming that the system(s) has been tested in accordance with the most recent edition of BSI/DISC PD2000-1 to confirm continuous time and date functionality of that system.	YES		The Donaldson Mine commenced after the 1 January 2000. Systems installed and operated for the Donaldson Mine are Y2K compliant.
DISPUTE RESO	LUTION			
123	In the event that the Applicant and an individual, the Councils or a Government agency, other than DUAP, cannot agree on the specification or requirements applicable under this Consent, the matter shall be referred by either party to the Director-General or if not resolved within six months, to the Minister for Urban Affairs and Planning, whose determination of the disagreement shall be final and binding on the parties.	Noted		The development consent was accepted by the parties and construction and commencement of mining occurred after 1 January 2000.
OTHER ISSUES				
124	The Applicant shall participate in (including a financial contribution if appropriate, to a maximum of \$10,000) the preparation of a revised Planning Strategy for the Thornton-Beresfield area. Any such financial contribution shall be paid as directed by the Director-General and any amounts not expended in the review upon completion of mining shall be refunded to the Applicant.	Requirements of this condition not specifically activated at the time of the audit due to changes to the planning proposals.		The Thornton-Beresford Area has been incorporated into the Lower Hunter Area and a Planning Strategy as an employment generating area with a transport internodal hub proposed for the area. Donaldson has participated in meetings associated with the Thornton-Killingworth study, Lower Hunter Regional Strategy and Lower Hunter Conservation Plan. Donaldson also made some financial contributions including analysis and participation in the planning of a Newcastle rail by-pass line through the Stony Pinch site. The Lower Hunter Regional Strategy and Conservation Plan is not yet finalised, but Donaldson Coal continues to be involved in discussions with the authorities on the Strategy and Plan.
125	The Applicant shall provide reasonable funding to Councils for independent counselling services for any landowner within 1.5 kilometres of the mining lease area who may request support on stress-related matters resulting from the development.	Not activated at the time of the audit		No requests have been made for the activation of this condition.
126	Within six months of the date of this Consent and in each AEMR thereafter, the Applicant shall report to the Director-General on the number of personnel employed by the mine in construction, mining and environmental management during that reporting period. The report shall compare the employment figures with those predicted in the EIS.	YES		Mine employment numbers are reported annually in the AEMR.

Appendix 5
MOP Plans

